

**LIMITED PHASE II SITE ASSESSMENT
HOMER AIRPORT
HOMER, ALASKA
PROJECT NO. AIP 3-02-0122-020-2022/CFAPT00491**

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ACRONYMS

AAC	-	Alaska Administrative Code
ADEC	-	Alaska Department of Environmental Conservation
AFFF	-	Aqueous Film Forming Foam
AK	-	Alaska Method
ARFF	-	Airport Rescue and Fire Fighting
bg	-	Below Grade
BGES	-	Braunstein Geological and Environmental Services
CCV	-	Continuing Calibration Verification
DRO	-	Diesel Range Organics
DU	-	Decision Unit
EB	-	Equipment Blank
EIS	-	Extracted Internal Standard
EPA	-	Environmental Protection Agency
ESA	-	Environmental Site Assessment
EtFOSAA	-	N-ethylperfluoro-1-octanesulfonamidoacetic Acid
GA	-	General Aviation
GAC	-	Granular Activated Carbon
Geotek	-	GeoTek Alaska
GRO	-	Gasoline Range Organics
J	-	Estimated Concentration
LCS	-	Laboratory Control Sample
µg/L	-	Micrograms per liter
µg/Kg	-	Micrograms per Kilogram
MDL	-	Method Detection Limit
MeFOSAA	-	N-methylperfluoro-1-octanesulfonamidoacetic Acid
MEK	-	2-Butanone
MeOH	-	Methanol
mg/Kg	-	Milligrams per Kilogram
MIBK	-	4-Methyl-2-pentanone
mL	-	Milliliter
M&O	-	Maintenance & Operations
MS	-	Matrix Spike
MSD	-	Matrix Spike Duplicate
Pace	-	Pace Analytical
PAHs	-	Polynuclear Aromatic Hydrocarbons
PFAS	-	Poly and Perfluoroalkyl Substances
PFBS	-	Perfluoro-1-butanefulfonic Acid
PFDA	-	Perfluoro-n-decanoic Acid
PFDoA	-	Perfluoro-n-dodecanoic acid
PFDS	-	Perfluoro-1-decanesulfonic Acid
PFHpA	-	Perfluoro-n-heptanoic Acid

PFHPS	-	Perfluoro-1-heptanesulfonic Acid
PFHxA	-	Perfluoro-n-hexanoic Acid
PFHxS	-	Perfluorohexanesulfonic Acid
PFNA	-	Perfluoro-n-nonanoic Acid
PFNS	-	Perfluoro-1-nonanesulfonic Acid
PFOA	-	Perfluoro-n-octanoic Acid
PFOS	-	Perfluorooctanesulfonic Acid
PFOSA	-	Perfluoro-1-octanesulfonamide
PFPeA	-	Perfluoro-n-pentanoic Acid
PFPeS	-	Perfluoro-1-pentanesulfonic Acid
PFTrDA	-	Perfluoro-n-tridecanoic Acid
PFUdA	-	Perfluoro-n-undecanoic Acid
PID	-	Photoionization Detector
ppm	-	Parts Per Million
QEP	-	Qualified Environmental Professional
QC	-	Quality Control
QSM	-	Quality Systems Manual
RDLs	-	Reported Detection Limits
RPD	-	Relative Percent Difference
RRO	-	Residual Range Organics
RSA	-	Runway Safety Area
VOCs	-	Volatile Organic Compounds
4:2 FTS	-	1H, 1H, 2H, 2H-Perfluorohexane Sulfonic Acid
6:2 FTS	-	1H, 1H, 2H, 2H-Perfluorooctane Sulfonic Acid
8:2 FTS	-	1H, 1H, 2H, 2H-Perfluorodecane Sulfonic Acid

1.0 INTRODUCTION

BGES, Inc. (BGES) was retained by HDL Engineering Consultants, LLC to assess soils within areas of planned construction activities at the Homer Airport in Homer, Alaska (Figure 1), hereafter referred to as the subject property. The objective of these soil assessment activities was to investigate the extent of potential poly and perfluoroalkyl substances (PFAS) contamination within areas of planned construction activities at the subject property, and to identify potential hydrocarbon contamination (approximately 20 percent of the samples were planned to be analyzed for hydrocarbon-related constituents). The site investigation activities consisted of the advancement of 187 soil borings and collection of soil samples. Field activities were performed between May 17 and May 26, 2022.

2.0 SITE BACKGROUND

The scope of the initially planned construction activities on the subject property included the replacement and rehabilitation of Runway 04/22 and associated runway safety area (RSA) culverts; the rehabilitation of Taxiways A, B, and the eastern portion of D; the construction of Taxiways G and J; the rehabilitation and expansion of the General Aviation (GA) apron and the gravel apron; the removal of the western portion of Taxiway D and the construction of a service road; obstruction removal and drainage improvements near the eastern end of Runway 04/22; and the replacement of the Lampert Lake weir and culvert (Figure 1).

Previous characterization work conducted by Shannon & Wilson in June of 2021 identified areas of contamination, including PFAS and petroleum, that were near, or within, the proposed zones of construction and rehabilitation work for this project. The report also identified areas free of PFAS and petroleum contamination.

To demonstrate Aircraft Rescue and Fire Fighting (ARFF) readiness, Airport Maintenance & Operations (M&O) for Homer Airport is required to mobilize yearly to the runway midpoint (by HOM13-SS on Figure 1) and “show product” in a 3-minute drill. Since 2004, ARFF has used water as the “product” to be shown during readiness drills; however, prior to 2004, ARFF used PFAS-containing aqueous film forming foam (AFFF) during readiness drills. These drills were conducted at the midway point of the runway to utilize a paved turnaround located on the south side of the runway and ensure that the heavy ARFF truck was not at risk of getting mired down in soft soils elsewhere along the runway. The absence of PFAS contamination identified in the Shannon & Wilson report along the runway, north, northeast, and southwest of HOM13-SS, was reported to corroborate this historical knowledge.

PFAS-containing AFFF had also been historically utilized by M&O at the northeast end of the GA apron (near HOM11-SS on Figure 1), the paved areas at the southwest end of the apron (near HOM4-SS on Figure 1), and at the southwest end of the runway (near HOM1-SS on Figure 1) to demonstrate equipment readiness. AFFF was also used on an unoccupied, paved area on the east corner of the northern apron. Foam had never been used to respond to an incident outside of readiness drills during the airport's history, according to interviews with airport personnel.

Rehabilitation and construction activities were initially planned within the vicinity of areas determined by Shannon & Wilson to have PFAS contamination. PFAS concentrations in exceedance of the Alaska Department of Environmental Conservation (ADEC) cleanup criteria were identified in the potential work areas at the HOM1-SS, HOM4-SS, HOM11-SS, and HOM13-SS sample locations at concentrations exceeding ADEC migration to groundwater cleanup criteria in soils sampled from approximately one foot below grade (bg). No petroleum contamination was identified at concentrations exceeding ADEC cleanup criteria at these soil sample locations. Residual range organics (RRO) were identified in the Groundwater Sample HOM6-GW at concentrations in exceedance of the ADEC cleanup criterion. Additionally, PFAS and diesel range organics (DRO) levels in exceedance of ADEC cleanup criteria were identified in Soil Sample HOM5-SS; however, the planned area of work was greater than 250 feet south of this sample location and, therefore, no additional sampling within the vicinity of this sample was required as part of this investigation.

Due to the discrete nature of the use of foam in firefighting activities at the airport, it was our understanding that any PFAS contamination did not likely extend significantly past the historical areas of use. However, the lateral extent of PFAS contamination within the above-described areas of use had not been defined and, therefore, characterization activities were required to be performed prior to rehabilitation activities for these selected areas. The construction areas and sampling areas are depicted on Figures 1 through 6.

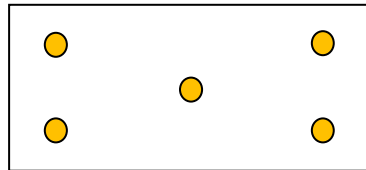
3.0 FIELD ACTIVITIES

Field work for this Limited Phase II ESA was performed between May 17 and May 25, 2022 by Carson Kent and Samuel Bundy, Qualified Environmental Professionals (QEPs) as defined by the ADEC. Weather conditions were sunny with ambient temperatures ranging from approximately 39 to 70 degrees Fahrenheit.

3.1 Placement of Soil Borings

Based on the historical use of foam at selected discrete sites around the subject property, shallow soils were characterized using a discrete sampling methodology. The ARFF Readiness Training Areas within the construction and work zones were divided into decision units (DUs) for sample evaluation purposes. Each DU was approximately $\frac{1}{4}$ acre in size. Five discrete samples were collected from each DU to evaluate potential contaminant constituents remaining in these soils.

Three DUs were designated in the area near HOM4-SS, 27 DUs were designated in the area near HOM11-SS, and 4 DUs were designated in the area near HOM13-SS (Figures 3, 5, and 6). Each DU was generally rectangular in shape, and the five soil borings in each DU were generally spaced in the manner depicted in the following diagram.



In addition to the soil boring placements in the DUs as described above, five soil borings each were advanced in the immediate vicinities of previous soil borings HOM4-SS, HOM11-SS, and HOM13-SS (Figures 3, 5, and 6). Additionally, one soil boring was advanced in the vicinity of previous soil boring HOM1-SS (Figure 2) and two soil borings were advanced in the vicinity of HOM6-SS (Figure 4). The latter two areas had construction activities planned nearby but were not located within known ARFF Readiness Training Areas.

Soil boring locations and DUs were plotted by Owen Means of HDL Engineering Consultants, LLC prior to conducting field activities. Soil boring locations were then identified in the field using a sub-meter global positioning unit and were marked with numbered flags prior to the start of drilling. These locations are depicted on Figures 2 through 6. Only two soil borings were advanced in each of two DUs located in the vicinity of HOM11-SS due to the presence of concrete within those DUs.

3.2 Advancement of Soil Borings

Utility locates for the subject property were performed by contacting the 811 Alaska Digline Locate Service for public utilities. Prior to advancement of the soil borings, BGES personnel met with

representatives from each of the utilities, the Federal Aviation Administration, and airport M&O and verified that all subsurface utilities in the project area were located and marked.

BGES oversaw the advancement of the soil borings by GeoTek Alaska, Inc. (Geotek) who utilized a tracked Geoprobe 6610DT drilling rig. Borings were advanced to a depth of 5 feet bg and soil samples were collected using macro-core sampling tubes. Soil samples were collected from each 2.5-foot interval within each soil boring. The samples from the shallow interval (0 to 2.5 feet), plus duplicate samples (one per ten project samples with a minimum of one per day of sampling) were submitted to the laboratory (“blindly” for the duplicate samples). The samples from the deeper interval (2.5 to 5 feet) were submitted to the laboratory to be held for potential analysis, pending analytical results from the shallow interval samples.

For those samples wherein hydrocarbon analyses were planned or indicated, a portion of the recovered soil sample from each macro-core was quickly placed in laboratory-supplied containers preserved with methanol and/or sodium sulphate utilizing clean Terra Core samplers, for possible submittal for volatile analyses. An additional sample portion was then collected in an unpreserved laboratory-supplied container using a clean, stainless-steel spoon for possible submittal for semi-volatile analyses and moisture content.

Sampling for PFAS analyses requires special considerations. During all soil sampling activities, the following procedures were followed:

- On the day of sampling, the sampling personnel did not use body wash or shampoo during showering;
- Sampling personnel wore wear clean wool or cotton clothes that had not been recently washed with detergent or softener;
- Food containers (including fast food wrappers) were not brought on site;
- Waterproof clothing was not worn to work;
- Products with Teflon coatings were not utilized;
- Products with waterproof coatings (such as those treated with Gore-tex) were not worn;
- Write-in-the-rain paper and pens were not used on site;
- Any items with “fluoro” in their names, or their component’s names, were not used;
- Personal care products such as insect repellent, sun lotion, skin care cream, nail polish, and other cosmetics were not used during the day of sampling, except for products specifically listed as not containing PFAS;
- Gel ice packs were not used;

- Sample containers for PFAS analysis were supplied by the laboratory and assured to be PFAS-free. These containers were placed in Ziploc bags to minimize the potential for PFAS samples to come into contact with cooler linings or containers of samples slated for other analyses. These samples were submitted in separate coolers from those carrying samples for other analyses; and
- Reusable equipment utilized during sample collection was thoroughly decontaminated using PFAS-free detergent such as Alconox, followed by a PFAS-free water rinse, and one equipment rinsate blank sample per day of sampling was prepared using laboratory-supplied PFAS-free water, and submitted for laboratory analysis.

Soil samples for PFAS were collected from each interval within each boring in PFAS-free, laboratory-supplied containers, using new, clean, stainless-steel spoons. The sample containers were labeled and placed in a cooler with PFAS-free ice and were shipped under standard chain of custody protocol to a Pace Analytical laboratory (Pace) in either Minneapolis, Minnesota; Mt. Juliet, Tennessee; or West Columbia, South Carolina, each of which is an ADEC-approved laboratory. As a quality control measure, a trip blank sample accompanied those soil samples scheduled for volatile analyses during the entire sampling and handling process.

Each soil boring interval was screened using a photoionization detector (PID) and observed for olfactory and visual evidence of petroleum contamination. The PID was calibrated each day prior to use with 100 parts per million (ppm) isobutylene calibration gas and a headspace blank was performed at the start of each day using an empty, sealed plastic bag. Soil samples for field-screening were placed in sealed plastic bags that were labeled with the soil boring, the interval, and the sample collection time, agitated for approximately 15 seconds, and allowed to warm to at least 40 degrees Fahrenheit. Within no less than 10 minutes and no greater than one hour of collection, the bags were again agitated for approximately 15 seconds, the probe of the PID was inserted into the bags, and the greatest reading associated with each bag was recorded in the field logbook.

Soil samples and duplicate samples from the shallow interval of each boring, with the exception of those borings in locations previously determined to contain PFAS within shallow soils, were analyzed for PFAS. In locations previously determined to contain PFAS within shallow soils, the deeper interval of each soil boring was analyzed for PFAS. Twenty percent of the samples (including any samples exhibiting PID readings, olfactory and visual observations, or historical usage indicating a potential for petroleum contamination) were also analyzed for gasoline range organics (GRO), DRO, RRO, volatile organic compounds (VOCs), and polynuclear aromatic hydrocarbons (PAHs). In instances where no evidence of potential hydrocarbon contamination was apparent, samples to be analyzed for petroleum constituents were selected from topographically lower areas within the DU, or from random locations. At least one

hydrocarbon sample was collected from each area of planned construction.

Because of the ubiquity of PFAS, where reusable equipment is employed (e.g., the downhole sampling rod from the drill rig), one equipment blank (prepared by pouring PFAS-free water supplied by the laboratory over the sampling equipment and collecting the effluent in laboratory-provided containers) was collected and submitted per day of sampling to evaluate the potential for cross-contamination of the samples.

Following the completion of the five soil borings within each DU, the macro-core sample tubes were decontaminated by Geotek employees usingalconox detergent and a propane burner. Rinsate from this process was combined for each DU, passed through a granulated activated charcoal (GAC) filter, and discharged within the central boring of each DU. The location, date, time, and quantity of each discharge was noted in the field logbook. Following the completion of all sampling activities, a sample of discharge from the GAC filter was collected and submitted for analysis for hydrocarbon and PFAS by the methods noted below. Additionally, a sample of the GAC material from within the filter was collected in order to characterize the material for disposal.

Field notes are included in Appendix A, and soil boring logs are included in Appendix B.

4.0 EVALUATION OF LABORATORY DATA

Two hundred soil samples, with an additional 21 duplicate samples, 7 equipment blanks, one sample of discharge from the GAC filter, and one characterization sample from the GAC material were submitted to Pace, an ADEC-approved laboratory; and were analyzed for PFAS by LC/MS/MS Quality Systems Manual (QSM) 5.3 Table B-15-compliant methodology, which is identified as PFAS by Isotope Dilution (ID) SOP in the tables. 20 percent of samples (40 samples plus 5 duplicate samples) were analyzed for GRO by Alaska Method (AK) 101, DRO by AK 102, RRO by AK 103, VOCs by Environmental Protection Agency (EPA) Method 8260, and for PAHs by EPA Method SW8270.

As a quality control procedure, trip blank samples accompanied the soil and water (equipment blank and discharge) samples scheduled for volatile analyses at all times from sample collection until submission to the laboratory. The trip blank samples were analyzed for GRO and VOCs by the same methods described above, to evaluate the potential for cross-contamination of the samples to have occurred.

4.1 Soil Samples

Soil cleanup criteria for PFAS, PAHs, and VOCs are obtained from ADEC 18 Alaska Administrative Code (AAC) 75.341, Table B1, Method 2, Migration to Groundwater values (November 18, 2021). Soil cleanup criteria for GRO, DRO, and RRO are obtained from ADEC 18 AAC 75.341, Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values; except for RRO which is obtained from the more stringent Ingestion pathway values (November 18, 2021). None of the PFAS exceedances were greater than ADEC's Human Health cleanup criteria for the Under 40-Inch Zone.

The soil samples were labeled, for example, SB1-1, where the prefix "SB1" identifies the soil boring from which the sample was collected, and "-1" indicates the sample interval. Because there were only two intervals per soil boring, the suffixes "-3" and "-4" indicated that samples were duplicates from the first and second intervals, respectively.

HOM1-SS Vicinity: The soil sample and duplicate sample taken from the vicinity of HOM1-SS contained perfluorooctanesulfonic acid (PFOS) at concentrations of up to 0.0075 milligrams per kilogram (mg/Kg), exceeding the ADEC cleanup criterion of 0.0030 mg/Kg for this analyte.

RRO, perfluorohexanesulfonic acid (PFHxS), benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, fluoranthene, indeno(1,2,3-cd)pyrene, phenanthrene, and pyrene were detected in the sample/duplicate pair at concentrations which were above the method detection limits (MDLs) but which did not exceed applicable ADEC cleanup criteria.

No other analytes were detected in the soil samples collected from the vicinity of HOM1 at concentrations exceeding the reported detection limits (RDLs). Analytical results for these soil samples are summarized in Table 2 and on Figure 2, and a copy of the laboratory data package is included in Appendix C.

HOM4-SS Vicinity: The soil samples taken from within the HOM4-SS work area contained PFOS at concentrations of up to 0.24 mg/Kg, exceeding the applicable ADEC cleanup criterion of 0.0030 mg/Kg for this analyte. The samples also contained the following PFAS chemicals at concentrations which did not exceed the applicable ADEC cleanup criteria: 1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS), 1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS), N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA), perfluoro-1-butanesulfonic acid (PFBS), perfluoro-1-

decanesulfonic acid (PFDS), perfluoro-1-heptanesulfonic acid (PFHpS), perfluoro-1-nonanesulfonic acid (PFNS), perfluoro-1-octanesulfonamide (PFOSA), perfluoro-1-pentanesulfonic acid (PFPeS), PFHxS, perfluoro-n-decanoic acid (PFDA), perfluoro-n-dodecanoic acid (PFDoA), perfluoro-n-heptanoic acid (PFHpA), perfluoro-n-hexanoic acid (PFHxA), perfluoro-n-nonanoic acid (PFNA), perfluoro-n-octanoic acid (PFOA), perfluoro-n-pentanoic acid (PFPeA), perfluoro-n-tridecanoic acid (PFTTrDA), and perfluoro-n-undecanoic acid (PFUdA).

The samples contained the following hydrocarbon analytes at concentrations exceeding applicable ADEC cleanup criteria: benzene at concentrations of up to 0.523 mg/Kg, GRO at concentrations of up to 981 mg/Kg, DRO at concentrations of up to 4,700 mg/Kg, 1,1,2-trichloroethane at concentrations of up to 5.36 mg/Kg, 1,2,4-trimethylbenzene at concentrations of up to 181 mg/Kg, 1,3,5-trimethylbenzene at concentrations of up to 56.1 mg/Kg, ethylbenzene at concentrations of up to 17.6 mg/Kg, isopropylbenzene at concentrations of up to 12.3 mg/Kg, n-butylbenzene at concentrations of up to 34.7 mg/Kg, n-propylbenzene at concentrations of up to 37.5 mg/Kg, naphthalene at concentrations of up to 194 mg/Kg, trichloroethene at concentrations of up to 0.486 mg/Kg, total xylenes at concentrations of up to 111 mg/Kg, 1-methylnaphthalene at concentrations of up to 30.5 mg/Kg, and 2-methylnaphthalene at concentrations of up to 42.3 mg/Kg. The samples also contained RRO, 1,2,3-trimethylbenzene, 2-butanone (MEK), 2-chloronaphthalene, 4-methyl-2-pentanone (MIBK), acenaphthene, acenaphthylene, acetone, anthracene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, phenanthrene, p-isopropyltoluene, pyrene, sec-butylbenzene, and toluene at concentrations which were above the MDLs but which did not exceed applicable ADEC cleanup criteria.

No other analytes were detected in the soil samples collected from the HOM4 vicinity at concentrations above the MDLs. Analytical results for these soil samples are summarized in Table 3 and on Figure 3, and a copy of the laboratory data package is included in Appendix C.

HOM6-SS Vicinity: One soil sample taken from within the HOM6-SS work area contained DRO at a concentration of 432 mg/Kg and another soil sample had a naphthalene concentration of 0.317 mg/Kg, which exceed the applicable ADEC cleanup criteria of 250 mg/Kg and 0.038 mg/Kg, respectively, for each analyte. The samples also contained RRO, 1-methylnaphthalene, 2-methylnaphthalene, and fluorene at concentrations which were above the MDLs but which did not exceed applicable ADEC cleanup criteria.

No other analytes were detected in the soil samples collected from the vicinity of HOM6 at concentrations above the MDLs. Analytical results for these soil samples are summarized in Table 4 and on Figure 4, and a copy of the laboratory data package is included in Appendix C.

HOM11-SS Vicinity: The soil samples taken from within the HOM11-SS work area contained PFOS at concentrations of up to 1.50 mg/Kg and PFOA at concentrations of up to 0.035 mg/Kg, exceeding the applicable ADEC cleanup criteria of 0.0030 mg/Kg and 0.0017 mg/Kg, respectively, for these analytes. The samples also contained detectable concentrations of the following PFAS chemicals at concentrations which did not exceed the applicable ADEC cleanup criteria: 6:2 FTS, 8:2 FTS, perfluoro-n-butanoic acid (PFBA), PFBS, PFDA, PFD_oA, PFDS, PFHpA, PFHpS, PFHxA, PFHxS, PFNA, PFNS, PFOSA, PFPeA, PFPeS, and PFUdA.

The soil samples taken from within this work area contained DRO at concentrations of up to 274 mg/Kg, exceeding the applicable ADEC cleanup criterion of 250 mg/Kg. The samples also contained RRO, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 1-methylnaphthalene, 2-butanone (MEK), 2-methylnaphthalene, 4-methyl-2-pentanone (MIBK), acenaphthylene, acetone, anthracene, benzene, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, bromomethane, chrysene, dibenz(a,h)anthracene, ethylbenzene, fluoranthene, fluorene, indeno(1,2,3-cd)pyrene, naphthalene, n-propylbenzene, phenanthrene, p-isopropyltoluene, pyrene, styrene, toluene, and total xylenes at concentrations which were above the MDLs but which did not exceed applicable ADEC cleanup criteria.

No other analytes were detected in the soil samples at concentrations above the MDLs. Analytical results for these soil samples are summarized in Table 5 and on Figure 5, and a copy of the laboratory data package is included in Appendix C.

HOM13-SS Vicinity: The soil samples taken from within the HOM13-SS work area contained PFOS at concentrations of up to 0.11 mg/Kg and PFOA at concentrations of up to 0.025 mg/Kg, exceeding the applicable ADEC cleanup criteria of 0.0030 mg/Kg and 0.0017 mg/Kg, respectively, for these analytes. The samples also contained the following PFAS chemicals at concentrations which did not exceed the applicable ADEC cleanup criteria: 6:2 FTS, 8:2 FTS, PFBA, PFBS, PFDA, PFDS, PFHpA, PFHpS, PFHxA, PFHxS, PFNA, PFNS, PFOSA, PFPeA, PFPeS, PFTrDA, and PFUdA.

No other analytes were detected in the soil samples at concentrations above the MDLs. Analytical results for these soil samples are summarized in Table 6 and on Figure 6, and a copy of the laboratory data package is included in Appendix C.

4.2 Equipment Blank Samples and GAC Discharge and Characterization Samples

The equipment blank (EB) samples were labeled, for instance, EB-518, where the prefix “EB” identifies the sample as an equipment blank, and “-518” indicates the month and day the sample was collected.

PFBA was detected in sample EB-520 at an estimated concentration of 0.0018 mg/L. Because this value was below the laboratory RDL and above the MDL, it is considered to be an estimated value. No other analytes were detected in any of the equipment blanks at concentrations exceeding the MDLs.

Equipment blanks were performed on the macro-core tubes. Clean liners were used within these tubes for each soil boring, which should have prevented any potential cross contamination from residual PFAS chemicals on the macro-core tubes.

No analytes were detected in the GAC discharge sample (the sample of water after it was passed through the GAC) at concentrations exceeding the MDLs.

6:2 FTS, PFHxA, PFHxS, PFOS, and PFPeA were detected within the GAC characterization sample at concentrations which did not exceed the applicable ADEC cleanup criteria. No other analytes were detected in the GAC characterization sample at concentrations exceeding the MDLs.

Analytical results for the equipment blanks and the GAC discharge and characterization samples are summarized in Table 7, and a copy of the laboratory data package is included in Appendix C.

5.0 LABORATORY DATA QUALITY

Pace provided sample analyses for this project. Pace is approved by the ADEC to conduct the specified analyses. The samples were shipped to Pace by Federal Express under chain of custody protocol. For all samples in Tables 2 through 7, in instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion. An ADEC laboratory data review checklist for each laboratory data package is included in Appendix D.

Laboratory Data Package 10610381: The sample cooler arrived at the laboratory with a measured temperature blank of 4.8 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

A case narrative was provided by the laboratory and a review of data quality was performed, in general accordance with ADEC guidance and standard industry practices. A laboratory method blank was prepared and analyzed with the sample batch. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material. A laboratory control sample (LCS) was also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method-prescribed limits. This spike indicates that extraction was performed as expected.

A matrix spike/matrix spike duplicate (MS/MSD) pair was prepared and analyzed with the sample batch. The recovery of PFHxS, PFHpS, and PFOS within the MS exceeded the laboratory acceptance limits and the recovery of PFOS within the MSD was below laboratory acceptance limits. Additionally, the recovery of the extracted internal standards 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS, d3-MeFOSAA, and d5-EtFOSAA exceeded the laboratory limits within both the MS and MSD. According to the laboratory, these deviations may be due to the presence of the affected analytes in the sample material and/or the heterogeneity of the sample. Therefore, the concentrations of PFHxS, PFHpS, PFOS, 4:2 FTS, 6:2 FTS, 8:2 FTS, n-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA), and EtFOSAA may be biased high in the associated project samples. However, with the exception of PFOS, none of these analytes exceeded ADEC cleanup criteria, and for those analytes, it is our opinion that this QC failure does not affect our interpretation of the data. For PFOS, the sample with the least exceedance (closest concentration to the cleanup criterion) the concentration was approximately 47 percent greater than the cleanup criterion; therefore, it is our opinion that this QC failure does not impact our interpretation of the PFOS data. Regarding the instance where the PFOS recovery in the MSD was below the laboratory's acceptance criteria, there is a possibility that the PFOS concentrations in the associated project samples could be biased low. Paired with the result in the MS (where the PFOS recovery exceeded the laboratory's acceptance criteria), it should be determined that the PFOS in the associated samples may be biased. However, as discussed above, the PFOS concentrations were significantly greater than the ADEC cleanup criterion; therefore, it is our opinion that this bias does not impact the interpretation of the PFOS data.

The associated samples (SB1-1, SB32-1, SB192-1, SB191-1, SB193-1, SB189-1, and SB190-1) with positive results for the analytes listed above that may be biased have been qualified with a “J” in Tables 2, 5, and 6 and should be considered estimated quantities.

The laboratory reported that diminished/elevated extracted internal standard (EIS) recoveries were present in samples and continuing calibration verification (CCV) sample results. The use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard. However, because these standards did not meet the laboratory’s acceptance criteria, the positively detected data associated with the EIS recovery failures (4:2 FTS, 6:2 FTS, 8:2 FTS, d3MeFOSAA, and d5EtFOSAA) in the affected samples (SB1-3, SB15-1, SB16-1, SB19-1, SB21-1, SB22-1, SB23-1, and SB30-1); PFDA and PFUdA in Sample SB22-1; PFDoA and PFTeDA in Sample SB30-1; 4:2 FTS, 6:2 FTS, 8:2 FTS, and PFTeDA in Sample SB29-1; 4:2 FTS, 6:2 FTS, 8:2 FTS in Samples SB31-1, SB20-1, SB33-1, and SB32-1; PFBA, PFPeA, PFHxA, PFHpA, 6:2 FTS, PFOA, PFNA, PFDA, d3MeFOSAA, PFOSA, d5EtFOSAA, PFUdA, PFDoA, PFTeDA and HFPO-DA in Sample SB10-1; 4:2 FTS, 6:2 FTS, 8:2 FTS, and d5EtFOSAA in Sample SB1-1 and SB191-1; 4:2 FTS, PFHxA, PFHpA, 6:2 FTS, 8:2 FTS, PFOSA, and HFPO-DA in Sample SB192-1; 4:2 FTS, 6:2 FTS, 8:2 FTS, PFOSA, and HFPO-DA in Sample SB193-1; 6:2 FTS, 8:2 FTS, PFOSA, d3MeFOSAA, and d5EtFOSAA in Sample SB180-4; 6:2 FTS, 8:2 FTS, d3MeFOSAA, d5EtFOSAA, and d3-N-MeFOSAA in SB-180-2; and 4:2 FTS, 6:2 FTS, 8:2 FTS, and PFOSA in Sample SB 190-1 are qualified with a “J” in Tables 2, 5, and 6 should be considered estimated concentrations. For all the analytes above except for PFOA, because there are no ADEC cleanup criteria, it is our opinion that this QC failure does not impact the acceptability of the data for their intended use. The percent recovery for the PFOA standards were low, indicating the potential for the PFOA project samples to be biased low in Sample SB10-1. However, because the PFOA concentration in SB10-1 exceeded the ADEC cleanup criterion, it is our opinion that this potential low bias does not impact the interpretation of the data.

Samples SB1-1, SB32-1, SB192-1, SB191-1, SB193-1, SB-180-4, SB180-2, and SB190-1 were analyzed with the ending CCV sample recovering low for PFPeS. Low recovery indicates a potential low bias in the quantitation for PFPeS in the associated samples; however, because there is no ADEC cleanup criterion established for this analyte, it is our opinion that this QC failure does not affect the interpretation of the data. The samples with positive results that may be biased have been qualified with a “J” in Tables 2, 5, and 6 and should be considered estimated quantities.

The recoveries of the surrogates 13C4_PFOA, 13C2_PFDA, and 13C2_PFHxA associated with Sample SB10-1 were below laboratory limits, indicating the potential for the associated analytes to be biased low, and therefore positive detections of these parameters are qualified with a "J" in Table 6 and should be considered estimated concentrations. However, because PFOS and PFOA were detected within this sample at concentrations exceeding the associated ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Surrogate recoveries for all other samples within the batch were within the laboratory acceptance limits, verifying that the instrument detector was working as expected. Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range.

Incorrect isotope ratios were obtained for several analytes within project samples. Impacted analytes include the following: PFNS in Sample SB10-1, SB15-1, SB29-1, SB30-1, and SB192-1. Positively detected values of PFNS in these samples have been qualified with a "J" in Table 6 and should be considered estimated concentrations. However, because there is no ADEC cleanup criterion for this analyte, it is our opinion that this QC failure does not impact the interpretation of the data.

Sample SB1-3 was a duplicate of Sample SB1-1. All analytes exhibited relative percent differences (RPDs) that were within the ADEC recommended acceptance range of less than 50 percent.

Sample SB180-4 was duplicate sample of Sample SB180-2. The RPD for PFOS, the only parameter that had detections in both samples was within the ADEC-recommended range of less than 50 percent.

Laboratory Data Package 10609490: The sample cooler arrived at the laboratory with a measured temperature blank of 4.2 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

A case narrative was provided by the laboratory and a review of data quality was performed, in general accordance with ADEC guidance and standard industry practices. A laboratory method blank was prepared and analyzed with each of the two sample batches covered by this report. The results show the blanks were free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material. A LCS was also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. This spike

indicates that extraction performed as expected.

One MS/MSD pair was prepared and analyzed with each of the two sample batches covered within this report. The recovery results within the MS/MSD pairs were within the method limits and the RPDs between the designated spikes and their duplicates were within the method limits. These spikes indicate that extraction performed as expected.

According to the laboratory, diminished/elevated EIS recoveries were present in Sample EB-518 and within the laboratory method blanks. The use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard. The impacted data include PFDA, 4:2 FTS, 6:2 FTS, 8:2 FTS, d3MeFOSAA, d3MeFOSAA. However, these analytes were not detected at concentrations exceeding the MDLs; therefore, it is our opinion that this QC error does not impact the interpretation of the data.

The recovery of EIS d3-N-MeFOSA was below the laboratory acceptance limits within several samples, indicating the potential for the results of the associated analyte MeFOSA to be biased low within the affected samples. MeFOSA was not detected in any of the associated project samples at concentrations exceeding the MDL. However, because there is no ADEC cleanup criterion established for MeFOSA, it is our opinion that this QC failure does not affect the interpretation of the data.

The recovery of the surrogate 13C2_PFDA within sample EB-518 was below laboratory acceptance limits, indicating the potential for the associated analytes to be biased low. However, because this analyte was not detected within this sample at a concentration exceeding the laboratory MDL, and because there is no ADEC cleanup criterion established for this analyte, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Surrogate recoveries were within the laboratory limits for each of the other samples within the batch, verifying that the instrument detector was working as expected.

Incorrect isotope ratios were obtained for PFHxA in Sample SB56-1. This value has been qualified with a "J" in Table 5, and should be considered to be an estimated concentration. However, because this analyte does not have an ADEC cleanup level, it is our opinion that this QC failure does not impact the interpretation of the data.

Sample SB134-3 was a duplicate of Sample SB134-1. The RPDs for all parameters could not be calculated because no parameters were detected in these samples. Sample SB149-3 was a duplicate sample of Sample SB149-1. The RPDs for all parameters could not be calculated because no parameters were detected in these samples. Sample SB58-3 was a duplicate of Sample SB58-1. The RPD between the recoveries of PFOS was 24 percent which is within the ADEC-recommended range of less than 50 percent. The RPDs for the remaining parameters could not be calculated because no other parameters were detected in these samples.

Laboratory Data Package 10609607: The sample cooler arrived at the laboratory with a measured temperature blank of 6.2 degrees Celsius, which is slightly above the prescribed optimal temperature range of 0 to 6 degrees Celsius, however, due to the relatively low volatility of the PFAS analytes being tested, and the slight temperature exceedance, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

A case narrative was provided by the laboratory and a review of data quality was performed, in general accordance with ADEC guidance and standard industry practices. A laboratory method blank was prepared and analyzed with the sample batch covered by this report. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material. A LCS was also prepared with each of the four sample batches covered within this report using clean reference matrix that had been fortified with native standards. The recovery of 11-Cl-PF3OUdS within LCS Sample LCS-99288 was below laboratory acceptance limits, indicating the potential for the results for this analyte in associated project samples to be biased low, however, because there is no ADEC cleanup criterion established for 11-Cl-PF3OUdS, it is our opinion that this QC failure does not affect the interpretation of the data. 11-Cl-PF3OUdS was not detected within any of samples associated with this LCS.

The recovery of all analytes within LCS sample LCS-99468 exceeded the laboratory limits indicating the potential for the results of all analytes in associated project samples to be biased high. However, because the potential bias is high and no analytes were detected within any of the samples associated with this LCS, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

One MS/MSD pair was prepared and analyzed with each of the four sample batches covered within this report. The recoveries of several analytes within the MS/MSD samples were either below or exceeded laboratory acceptance limits. According to the laboratory, these deviations may be due to the presence of the affected analytes in the sample material and/or sample heterogeneity. Because there are no ADEC cleanup criteria established for analytes other than PFOS and PFOA, it is our opinion that this QC failure does not affect the interpretation of the data for analytes other than PFOS and PFOA. Results for PFOS within samples SB44-1, SB45-1, SB46-1, SB48-1, SB119-1, and SB125-1 may be biased low but the reported concentrations of PFOS within these samples exceed the applicable ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOS within samples SB47-1, SB122-1, SB124-1, SB154-1, SB155-1, SB156-1, SB156-3, SB157-1, SB158-1, SB159-1, SB160-1, SB161-1, SB162-1, and SB163-1 may be biased low but are at least 60 percent below the applicable ADEC cleanup criterion; therefore it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOA within samples SB47-1, SB48-1, SB122-1, SB124-1, SB154-1, SB155-1, SB156-1, SB156-3, SB157-1, SB158-1, SB159-1, SB160-1, SB161-1, SB162-1, and SB163-1 may be biased high, but do not exceed the applicable ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOA within samples SB44-1, SB45-1, SB46-1, SB119-1, and SB125-1 may be biased high but are at least 29 percent above the applicable ADEC cleanup criterion, therefore it is our opinion that this QC failure does not affect the interpretation of the data. The affected values were qualified with a "J" within the results tables and should be considered estimated concentrations.

According to the laboratory, diminished/elevated EIS recoveries were present within laboratory blank samples Blank-99467 and Blank-99469 and within the CCV sample, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard. The laboratory qualified the data that have been impacted, and these qualifications are included in the paragraphs throughout this data package discussion.

Samples SB125-1, SB119-1, SB44-1, SB45-1, SB46-1, and SB48-1 were analyzed with the ending CCV recovery exceeding the laboratory acceptance criteria for 6:2 FTS. This indicates the potential for the reported concentrations of 6:2 FTS to be biased high within these samples. However, because there is no ADEC cleanup criterion established for 6:2 FTS, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables, and should be considered to be estimated concentrations.

Several samples had low recoveries for the four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA), which according to the laboratory, was likely due to high native analyte concentrations or matrix interference. This indicates the potential for the reported concentrations of associated analytes to be biased low within these samples. Because all affected samples exhibited concentrations of PFOS and/or PFOA that exceeded the ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range. The affected values have been qualified with a "J" within the results tables.

An incorrect isotope ratio was obtained for PFNS in Sample SB162-1. This value has been qualified with a "J" in Table 5, and should be considered an estimated concentration. However, because there is no ADEC cleanup criterion for this analyte, it is our opinion that this QC failure does not impact the interpretation of the data.

Due to extended laboratory processing times, Samples SB130-1, SB146-1, SB133-3, SB131-1, SB133-1, SB121-1, SB123-1, SB127-1, SB128-1, SB126-1, SB120-1, and SB122-3 were extracted outside of the method required holding time of 28 days, and thus can be considered to potentially be biased low. Therefore, positively detected analytes in the affected samples have been qualified with a "J" in Table 5 and should be considered to have estimated concentrations. However, due to the relatively low volatile nature of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Concentrations of some analytes exceeded the laboratory calibration range. The affected values are potentially biased and have been qualified with a "J" within the results tables and should be considered to be estimated concentrations. These include PFPeA and 6:2 FTS in Samples SB120-1 and SB121-1; PFPeA in SB126-1; and 6:2 FTS in Samples SB119-1, SB45-1, SB46-1, and SB47-1. Because there are no ADEC cleanup criteria established for the affected analytes, it is our opinion that this QC failure does not affect the interpretation of the data.

Sample SB133-3 was a duplicate of Sample SB133-1, and Sample SB122-3 was a duplicate of Sample SB122-1. The RPDs for PFOS in these sample pairs exceeded the ADEC-recommended range of less than 50 percent, indicating the potential for this analyte to be biased in the samples collected from this area of the site (HOM11). This may be due to the heterogeneity of the soils. Therefore, this parameter is

qualified with a “J” in Table 5 and should be considered to have estimated concentrations.

Sample SB156-3 was a duplicate of Sample SB156-1. The RPDs for all analytes that were detected in both of these samples were within the ADEC-recommended range of less than 50 percent.

Laboratory Data Package L1498492: The sample cooler arrived at the laboratory with a measured temperature blank of 7.7 degrees Celsius, which is above the prescribed optimal temperature range of 0 to 6 degrees Celsius, however, due to the relatively low volatility of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Samples SB13-1, SB9-3, SB18-1, SB12-1, SB14-1, EB-526, and EB-523 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Sample SB17-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within this sample. Therefore, positive detections of affected analytes are qualified with a “J” in Table 6 and should be considered estimated concentrations. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the sample already exhibited an exceedance of ADEC cleanup criteria for PFOS and PFOA, it is our opinion that this QC failure does not affect the interpretation of the data.

According to the laboratory, Samples EB-526 and EB-523 required centrifugation prior to extraction, due to excessive solids present in the samples. Centrifugation was performed following the PFAS Aqueous Centrifuge Protocol; samples were spiked with Surrogate (SUR; Extracted Internal Standard/EIS) and shaken vigorously before being poured into a conical bottle and centrifuged. The centrifuged aqueous sample was decanted back into the original sample bottle, off of the condensed solids remaining in the centrifuge bottle. The original sample bottle was rinsed as normal and the centrifuge bottle was rinsed with 4 milliliters (mL) of methanol (MeOH). The centrifuge bottle rinsate was added to the elution. The samples were concentrated to less than 5 mL and reconstituted to 5 mL using MeOH by transfer pipet.

Sample SB9-3 was a duplicate of Sample SB9-1. The RPDs for the parameters that were detected in both samples were within the ADEC-recommended range of less than 50 percent.

Laboratory Data Package L1498544: The sample cooler arrived at the laboratory with a measured temperature blank of 5.7 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Samples SB24-1, SB25-1, SB28-1, and SB27-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Sample SB6-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the sample. The sample was analyzed for a second time and the surrogate recoveries were within laboratory acceptance limits. Because the second run of the surrogates yielded results within acceptable laboratory limits, because any potential bias is high, and because the associated analytes were not detected within the affected sample, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogate 13C2_8:2 FTS within Sample SB8-1 exceeded the laboratory limits, indicating the potential for the reported concentration of the associated analyte to be biased high within the sample. However, because there is no established ADEC cleanup criterion for the affected analyte, and because the sample exhibited PFOS and PFOA concentrations exceeding the ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data. The affected value has been qualified with a "J" within the results tables and should be considered an estimated concentration.

Sample SB6-3 was a duplicate of SB6-1. The RPDs for hydrocarbon-related analytes RRO, 1,1,2-trichloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-Methyl-2-pentanone (MIBK), ethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, p-isopropyltoluene, sec-butylbenzene, and total xylenes exceeded the ADEC recommended acceptance guideline of less than 50 percent, indicating the potential for these analytes to be biased in the samples

collected from this area of the site (HOM4). This may be due to the heterogeneity of the soils. Therefore, these parameters are qualified with a “J” in Table 3 and should be considered to have estimated concentrations. However, for all petroleum samples collected from the HOM4 area, the petroleum-related analytes either exhibited concentrations that exceeded ADEC cleanup criteria by several orders of magnitude, or were non-detectable or exhibited concentrations well below ADEC cleanup criteria. Therefore, it is our opinion that this QC failure does not impact the interpretation of the data. In some cases, these parameters were non-detectable at concentrations below the MDLs. In these instances, it cannot be determined if those parameters actually had concentrations that exceeded ADEC cleanup criteria.

Laboratory Data Package L1496985 Lot Numbers XE24088 and XE24090: For laboratory data package L1496985, the samples were shipped in three separate coolers which arrived at the laboratory with measured temperature blanks of 4.2, 8.0, and 12.3 degrees Celsius. Two of these coolers arrived at the laboratory with measured temperatures that were above the prescribed optimal temperature range of 0 to 6 degrees Celsius. However, because of the relatively low volatility of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The sample coolers for Lot Numbers XE24088 and XE24090 arrived at the laboratory with measured temperature blanks of 8.0 and 12.3 degrees Celsius, as mentioned above. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS, d5-EtFOSAA, and d3-MeFOSAA within Samples SB72-1, SB175-1, SB177-1, SB176-1, SB34-1, SB37-3, SB35-1, SB38-1, SB36-1, SB171-1, SB169-1, SB112-2, SB184-1, SB185-1, SB173-1, SB176-3, SB37-1, and SB174-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, and 13C2_8:2 FTS within Sample SB73-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the sample. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the sample yielded a concentration of PFOS that exceeds

the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables, and should be considered estimated concentrations.

Sample SB176-3 was a duplicate of Sample SB176-1. RPDs for PFHxS and PFOS exceeded the ADECs recommended acceptable range of less than 50 percent. Therefore, these parameters are qualified with a "J" in Table 3 and should be considered to have estimated concentrations. This may be due to the heterogeneity of the soils. However, because there is no cleanup criterion for PFHxS, it is our opinion that this QC error does not impact the interpretation of this analyte. Regarding the PFOS concentrations, we have taken a conservative approach of considering all of the PFOS concentrations that exceeded the ADEC cleanup criterion to actually be such an exceedance. Regarding the samples with PFOS concentrations below the ADEC cleanup criterion, they were all at least 30 percent below the ADEC cleanup criterion with one exception, and for these samples, it is our opinion that this QC failure does not impact the interpretation of those data. However, for Sample SB25-1, the PFOS concentration was less than 7 percent below the ADEC cleanup criterion. Therefore, for this sample, it may be prudent to consider this location as being potentially positive for PFOS. We have included a note to this effect on Figure 3.

Sample 179-4 was a duplicate of Sample 179-2. Because all parameters were non-detectable, it was not possible to calculate RPDs for this sample pair.

Sample 37-3 was a duplicate of Sample 37-1. Most of the analytes were non-detectable in one or both of the sample pair and RPDs could not be calculated for these parameters. RPDs for PFHxA, PFHxS, and PFOs were within the acceptable range of less than 50 percent as recommended by the ADEC.

Laboratory Data Package L1496985 Lot Numbers XE24087 and XE24085: For laboratory data package L1496985, the samples were shipped in three separate coolers, as mentioned above. The sample cooler for these two lot numbers arrived at the laboratory with a measured temperature blank of 8.0 degrees Celsius, which is above the prescribed optimal temperature range of 0 to 6 degrees Celsius; however, because of the relatively low volatility of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS, and d5-EtFOSAA within Samples SB92-1, SB113-1, SB89-1, SB91-1, SB114-3, SB117-1, SB114-1, SB118-1,

SB105-1, SB104-1, SB99-1, SB79-1, SB100-1, SB111-1, SB101-1, and SB106-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. Therefore, these analytes are qualified with a “J” in Table 5 and should be considered to be estimated concentrations. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, and 13C2_8:2 FTS within Sample SB83-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the sample. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the sample has yielded PFOS and PFOA concentrations exceeding ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables and should be considered estimated concentrations.

Laboratory Data Package L1496985 Lot Numbers XE24082, XE24083, and XE24084: For laboratory data package L1496985, the samples were shipped in three separate coolers, as mentioned above. The sample coolers for these three lot numbers arrived at the laboratory with measured temperature blanks of 4.2 and 8.0 degrees Celsius. One of the coolers was within the prescribed optimal temperature range of 0 to 6 degrees Celsius and the second cooler was above the prescribed optimal temperature range; however, because of the relatively low volatility of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS, and d5-EtFOSAA within the MS exceeded the laboratory limits, as did the recovery of 6:2 FTS, PFHxS, and PFOS. Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS within the MSD exceeded the laboratory acceptance limits, as did the recovery of 6:2 FTS and PFOS. These exceedances indicate that these analytes in the corresponding project samples may be biased high, and the positive detections are qualified with a “J” in Table 5 and should be considered estimated concentrations. The RPD for 8:2 FTS between the MS and MSD was outside of the laboratory limits, indicating that this analyte in the associated project samples may be biased and the positive detections are qualified with a “J” in Table 5 and should be considered estimated concentrations. According to the laboratory, these deviations may be due to the

presence of the affected analytes in the sample material and/or sample heterogeneity. However, because there are no ADEC cleanup criteria established for these analytes other than PFOS, it is our opinion that this QC failure does not affect the interpretation of the data for analytes other than PFOS. Results for PFOS within samples SB41-1, EB-520, SB76-2, SB85-3, SB42-3, SB88-1, SB84-1, SB85-1, SB96-1, may be biased high but are all below the applicable ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOS within samples SB76-1, SB78-1, SB39-1, SB42-1, SB40-1, SB43-1, SB86-1, SB186-1, SB187-1, SB188-1, and SB189-1 may be biased high but the reported concentrations of PFOS within these samples exceed the applicable ADEC cleanup criterion by at least 23 percent, therefore it is our opinion that this QC failure does not affect the interpretation of the data.

The recovery of the surrogates 13C2_8:2 FTS and 13C6_PFDA within LCS sample XQ43083-002 exceeded the laboratory acceptance limits indicating the potential for the results of the associated analytes within this sample to be biased high. However, because the potential bias is high and the associated analytes were not detected within the LCS sample, it is our opinion that this QC failure does not affect the interpretation of the data.

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS, 13C2_PFD_oA, d5-EtFOSAA, and d3-MeFOSAA within Samples SB41-1, SB39-1, SB76-2, SB75-1, SB74-1, SB94-1, SB95-1, SB80-3, SB116-1, SB93-1, and SB90-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, as the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the interpretation of the data.

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS, 13C2_PFD_oA, d5-EtFOSAA, and d3-MeFOSAA within Samples SB76-1, SB78-1, SB42-1, SB40-1, SB188-1, SB43-1, SB86-1, SB189-1, SB98-1, SB77-1, SB87-1, and SB97-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the affected samples. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the samples yielded concentrations of PFOS and/or PFOA that exceed ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables, and should be considered estimated concentrations.

Sample SB42-3 was a duplicate of Sample SB42-1. The RPDs for the following analytes exceeded the ADEC recommended acceptance range of less than 50 percent: 6:2 FTS, PFBS, PFHpS, PFPeS, PFBA, PFHpA, PFHxA, PFOA, PFPeA, PFHxS, and PFOS, indicating the potential for these analytes in the associated sampling area (HOM11) to be biased. Therefore, positive detections of these analytes have been qualified with a “J” in Table 5, and should be considered estimated concentrations. Except for PFOA and PFOS, because there is no ADEC cleanup criteria for these analytes, it is our opinion that this QC failure does not impact the interpretation of the data. For PFOA and PFOS concentrations, we have taken a conservative approach of considering all of the PFOS concentrations that exceeded ADEC cleanup criteria to actually be such exceedances. Regarding the samples with PFOA concentrations below the ADEC cleanup criterion, they were all at least 17 percent below the ADEC cleanup criterion with one exception, and for these samples, it is our opinion that this QC failure does not impact the interpretation of those data. However, for Sample SB187-1, the PFOA concentration was less than 6 percent below the ADEC cleanup criterion. Therefore, for this sample, it may be prudent to consider this location as being potentially positive for PFOA. Thus, we have included a note to this effect on Figure 5. Regarding the samples with PFOS concentrations below the ADEC cleanup criterion, they were all at least 13 percent below the ADEC cleanup criterion with two exceptions, and for these samples, it is our opinion that this QC failure does not impact the interpretation of those data. However, for Sample SB75-1, the PFOS concentration was less than 7 percent below the ADEC cleanup criterion and for SB37-3, the PFOS concentration was less than 4 percent below the ADEC cleanup criterion. However, Sample SB37-3 was part of a duplicate pair which experienced a RPD within the acceptable range for PFOS; therefore, this QC failure is not considered to impact the interpretation of the PFOS concentrations in SB37-3 (and its companion duplicate sample SB37-1). For Sample SB75-1, it may be prudent to consider this location as being potentially positive for PFOS. Thus, we have included a note to this effect on Figure 5.

Laboratory Data Package L1496684: The sample cooler arrived at the laboratory with a measured temperature blank of 4.6 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

The recovery of acetone within the LCSD sample was below the laboratory acceptance limits. Additionally, the RPD between the recoveries of acetone in the LCS/LCSD sample pair exceeded laboratory limits. This indicates the potential for the reported concentrations of acetone within the associated project samples to be biased within the affected samples. Therefore, the positively detected

affected values have been qualified with a "J" within the results tables. However, none of the reported levels of acetone within the associated project samples exceeded one tenth of the applicable ADEC cleanup criterion, therefore, it is our opinion that this QC failure does not affect the interpretation of the data.

The recovery of GRO and DRO within the MS/MSD sample pair was below the laboratory acceptance limits, indicating the potential for GRO and DRO concentrations in the associated project samples to be biased low. However, this MS/MSD sample pair was derived from soils from a different project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. Additionally, the RPD between the recoveries of GRO within the sample pair exceeded laboratory limits, indicating the potential for GRO concentrations in the associated project samples to be biased. According to the laboratory, these deviations may be due to the presence of the affected analytes in the sample material and/or sample heterogeneity. However, because all GRO concentrations were non-detectable at MDLs that were at least 2 orders of magnitude below the ADEC cleanup criterion, it is our opinion that the data are acceptable for their intended use.

The CCV sample recovery for acetone within samples SB132-1, SB45-3, SB156-1, SB126-1, and SB46-1, and the CCV sample recovery for 2-butanone (MEK) within samples SB132-1, SB156-1, and SB46-1 exceeded laboratory acceptance limits, indicating the potential for the reported concentrations of these analytes within these project samples to be biased high within the associated samples. However, none of the reported concentrations of the affected analytes exceed the applicable ADEC cleanup criteria, therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The affected values have been qualified with a "J" within the results tables.

The CCVs for chloromethane, dichlorodifluoromethane, hexachloro-1,3-butadiene, trans-1,2-dichloroethene, and vinyl chloride within samples SB119-1, SB121-1, and SB44-1 were below laboratory acceptance limits, indicating the potential for the reported concentrations of these analytes within these project samples to be biased low. However, none of the impacted analytes were detected within the affected project samples, and the MDLs for the affected analytes were at least 21 percent below the applicable ADEC cleanup criteria. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The CCVs for bromomethane, chloroethane, dichlorodifluoromethane, and trichlorofluoromethane within the trip blank sample were below laboratory acceptance limits, indicating the potential for the reported

concentrations of these analytes within the trip blank sample to be biased low. However, none of the affected analytes were detected within the project samples, or the trip blank sample at concentrations exceeding the MDLs and all of the MDLs were at least 2 orders of magnitude below the applicable ADEC cleanup criteria and therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The recovery of surrogates 1,2-dichloroethane-d4 and toluene-d8 within sample SB46-1 exceeded laboratory acceptance limits, indicating the potential for the reported concentrations of associated analytes within sample SB46-1 to be biased high. However, none of the affected analytes were detected within sample SB46-1 and the MDLs for the affected analytes were below the applicable ADEC cleanup criteria. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The concentration of acetone within sample SB46-1 exceeded the instrument calibration range, indicating the potential for this result to be biased. Acetone was initially detected in this sample at a concentration one order of magnitude below the ADEC cleanup criterion and was reanalyzed by the laboratory because of several QC failures. Acetone was not detected in the reanalyzed sample. Although there were fewer QC issues associated with the reanalysis, it did have associated QC issues; therefore, conservatively, the detected concentration is included in Table 5 and is qualified with a "J" and should be considered an estimated value. However, because the detected concentration is one order of magnitude below the ADEC cleanup criterion, it is our opinion that this QC failure does not impact the interpretation of the data.

Sample SB45-3 was a duplicate of Sample SB45-1, and was collected to evaluate field sampling precision. The RPD between reported concentrations of RRO was 86 percent, which exceeds the ADEC's acceptable limit of 50 percent. This indicates relatively poor field sampling precision with respect to this analyte, and may be due to soil heterogeneity. Therefore, the positively detected results for this analyte in all soil samples collected during the same day are qualified with a "J" in Table 5 and should be considered estimated values. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

Laboratory Data Package L1497358: The sample cooler arrived at the laboratory with a measured temperature blank of 2.7 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

The recovery of 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, and dibromomethane within both LCSs exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of these analytes within the associated project samples to be biased high. However, because the concentrations of these analytes were all non-detectable, and because the potential bias is high and none of the reported concentrations of these analytes exceeded the applicable ADEC cleanup criteria within any of the project samples, therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The recoveries of DRO and RRO within both of the MS/MSD pairs were below the laboratory acceptance limits due to high concentrations of these analytes within the parent samples. Additionally, the recovery of the surrogate n-triacontane d62 within one of the MS/MSD pairs was below the laboratory limits. This indicates the potential for the reported results for these analytes within the associated project samples to be biased low. However, because the parent samples for the MS/MSD pairs are not samples from this project and may be associated with matrix interferences from those soils, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The recoveries of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene within the MS/MSD pair were below the laboratory acceptance limits due to high concentrations of these analytes within the parent sample. This indicates the potential for the reported results for these analytes within the associated project samples to be biased low. However, because the parent sample for the MS/MSD pair is not one of the samples from this project and may be associated with matrix interferences from those soils, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The recoveries of benzo(a)anthracene, fluoranthene, phenanthrene and pyrene and/or chrysene and fluorene in one or more of the MS and MSDs were below the laboratory acceptance limits due to matrix interference. This indicates the potential for the reported results for these analytes within the associated project samples to be biased low. However, because the parent samples for the MS/MSD pairs are not samples from this project and may be associated with matrix interferences from those soils, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The RPDs between the recoveries of 1-methylnaphthalene, 2-methylnaphthalene, chrysene, fluorene, naphthalene and phenanthrene in the MS/MSD exceeded the laboratory control limits, indicating the potential for these analytes to be biased in the project samples. Therefore, positive detections of these analytes in the associated project samples are qualified with a "J" in Tables 3 and 5 and should be

considered to be estimated concentrations. However, because the reported concentrations of these analytes are all at least two orders of magnitude below the applicable ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data.

The CCVs for chloromethane and dichlorodifluoromethane within Samples SB120-1, SB186-1, SB181-1, SB181-3, SB77-1, SB78-1, SB39-1, SB115-1, SB110-1, SB184-1, SB185-1, and SB179-1 and the CCVs for chloromethane, dichlorodifluoromethane, hexachloro-1,3-butadiene, trans-1,2-dichloroethene, and vinyl chloride within samples SB42-1, SB88-1, SB43-1, SB187-1, SB189-1, SB117-1, and SB112-1, and the trip blank sample were below laboratory acceptance limits, indicating the potential for the reported results for these analytes within these project samples to be biased low. However, because none of these analytes were detected in any of the project samples and the MDLs for each analyte were at least 18 percent below the applicable ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The internal standards for one or more of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone (MEK), acetone, ethylbenzene, naphthalene, n-propylbenzene, toluene and total xylenes within samples SB120-1, SB77-1, SB78-1, SB39-1, SB115-1, SB110-1, SB184-1, SB185-1, and SB179-1 exceeded the laboratory acceptance limits, according to the laboratory, due to matrix interference, indicating the potential for the reported concentrations of these analytes within these samples to be biased high. However, because the bias is high and none of the affected analytes had reported concentrations that exceeded the applicable ADEC cleanup criteria within the affected project samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The affected values have been qualified with a "J" within Tables 3 and 5 and should be considered to be estimated concentrations.

The recovery of surrogate a,a,a-trifluorotoluene (FID) within sample SB43-1 and toluene-d8 within samples SB120-1, SB39-1, SB115-1, SB184-1, and SB179-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of associated analytes within these samples to be biased high. However, because the bias is high and none of the affected analytes were reported at concentrations exceeding the applicable ADEC cleanup criteria within the affected project samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The affected values have been qualified with a "J" within the results tables and should be considered to be estimated concentrations.

The recoveries of surrogate 4-bromofluorobenzene within samples SB78-1, SB184-1, and SB179-1 were below the laboratory acceptance limits, indicating the potential for the reported concentrations of associated analytes within these samples to be biased low. Because the associated analyte 1,1,2,2-tetrachloroethane was not detected in any of the project samples and the MDLs for this analyte were at least 86 percent below the applicable ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Sample SB181-3 was a duplicate of Sample SB181-1, and was collected to evaluate field sampling precision. The RPD between reported concentrations of 2-butanone (MEK) was 73 percent which exceeds the ADEC's acceptable limit of 50 percent. This indicates relatively poor field sampling precision with respect to this analyte, and may be due to soil heterogeneity. Therefore, the positively detected results for this analyte in all soil samples collected during the same day are qualified with a "J" in Table 5 and should be considered estimated values. The RPD between the reported concentrations of acetone was 11 percent which is below the ADEC's acceptable limit of 50 percent. This indicates relatively good field sampling precision with respect to this analyte. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

Laboratory Data Package L1498453: The sample cooler arrived at the laboratory with a measured temperature blank of 4.8 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

The recovery of GRO within the MS/MSD pair was below the laboratory acceptance limits, indicating the potential for the reported concentrations of GRO within the associated project samples to be biased low. However, because the MS/MSD sample pair was derived from soils from another project, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The RPD for GRO within the MS/MSD sample pair exceeded the laboratory limits, indicating the potential for the reported concentrations of GRO within the project samples to be biased. The affected values have been qualified with a "J" within the results tables and should be considered to be estimated concentrations. Because the GRO values were either non-detectable at concentrations that are two orders of magnitude below the ADEC cleanup criterion, or at least 24 percent below the ADEC cleanup criterion, or more than 100 percent above the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not

affect the interpretation of the data.

The recoveries of bromomethane and naphthalene within the CCV sample associated with Samples SB28-1, SB6-1, SB27-1, SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, SB2-3, SB3-1 and the recoveries of chloroethane and naphthalene within the CCV sample associated with Samples SB4-2, SB25-1, SB26-1, and SB6-2 were below the laboratory acceptance limits, indicating the potential for the reported concentrations of these compounds within the associated project samples to be biased low. Therefore, the affected values have been qualified with a "J" within the results tables. Because the concentrations of bromomethane in the project samples were all non-detectable at MDLs that exceeded the ADEC cleanup criterion; therefore, it cannot be determined if the actual concentrations of bromomethane exceed the ADEC cleanup criterion. The naphthalene concentrations in these samples either exceeded the ADEC cleanup criterion by at least one order of magnitude, or were non-detectable at MDLs that exceeded the ADEC cleanup criterion. Therefore, it is our opinion that this QC failure does not affect the interpretation of the samples that exhibited naphthalene exceedances. Regarding the samples with non-detectable concentrations at MDL values that exceeded the ADEC cleanup criterion, it cannot be determined if the actual concentration of this analyte exceeded this cleanup criterion in the affected samples.

The analyte 1,2,4-trimethylbenzene was detected in the Method Blank associated with Sample SB25-1. Therefore, the concentration of this analyte is qualified with a "J" in Table 3 and should be considered an estimate. Because the 1,2,4 trimethylbenzene concentration in this sample was below the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the acceptability of this datum for its intended purpose.

The recovery of acetone in the LCSD exceeded the laboratory's acceptance criteria, indicating the potential that acetone concentrations in the associated project samples are biased low. The following project samples are potentially affected: SB28-1, SB6-1, SB27-1, SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, SB2-3, and SB3-1. The acetone concentrations were non-detectable at MDLs that were at least 64 percent below the ADEC cleanup criterion, except for Samples SB6-1 and SB6-3 (duplicate of SB6-1). Therefore, with those exceptions, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The acetone concentrations in SB6-1 and SB6-3 were non-detectable at MDLs that exceeded the ADEC cleanup criterion; therefore, it cannot be determined if those concentrations actually exceeded the ADEC cleanup criterion.

The recoveries of surrogates n-triacontane d62 and o-terphenyl associated with analysis of DRO and RRO were below the laboratory's acceptance criteria for Samples SB2-1 and SB2-3, indicating the potential for the corresponding analytes to be biased low in these samples. However, because the DRO concentrations in these samples were at least 23 percent below the ADEC cleanup criterion and because the RRO concentrations were two orders of magnitude below the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the interpretation of the data. The potentially affected analytes are qualified with a "J" in Table 4 and should be considered estimated concentrations.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB4-2, SB25-1, SB26-1, SB28-1, SB6-1, and SB27-1 exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased high. However, this MS sample was derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, and SB2-3 exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased high. Because all of these DRO concentrations were non-detectable at MDLs below the ADEC cleanup criterion, except for the DRO concentration in SB6-3, which exceeded the ADEC cleanup criterion by one order of magnitude. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The DRO concentration in SB6-3 is qualified with a "J" in Table 3 and should be considered an estimate.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB3-1, and SB6-2 exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased high. However, this MS sample was derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of RRO in a MS and/or MSD sample associated with Project Samples SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, and SB2-3 were below the laboratory's acceptance criteria, indicating the potential for the RRO concentration in these samples to be biased low. Because these samples yielded RRO concentrations that were one to two orders of magnitude below the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The

detections of RRO in these samples are qualified with a “J” in Tables 3 and 4 and should be considered estimated concentrations.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB3-1, and SB6-2 were below the laboratory’s acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased low. However, this MS sample was derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The RPDs for DRO in a MSD sample associated with Samples SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, and SB2-3 exceeded the laboratory’s acceptance criteria, indicating the potential for the DRO concentrations in these samples to be biased. Because all of these DRO concentrations were non-detectable at MDLs at least 23 percent below the ADEC cleanup criterion, except for the DRO concentration in SB6-3, which exceeded the ADEC cleanup criterion by one order of magnitude, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The DRO concentration in SB6-3 is qualified with a “J” in Table 3 and should be considered an estimate.

The RPDs for DRO and RRO in a MSD sample associated with Project Samples SB3-1, and SB6-2 exceeded the laboratory’s acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased. However, the DRO concentrations in these samples exceeded the ADEC cleanup criterion by at least 72 percent, and the RRO concentrations were at least 39 percent below the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. Concentrations of DRO and RRO in these samples are qualified with a “J” in Tables 3 and 4 and should be considered estimates.

The recoveries of the surrogates nitrobenzene-d5 and 2-fluorobiphenyl exceeded the laboratory’s acceptance criteria for Samples SB4-2, SB6-1, and/or SB6-3, indicating the potential for the analytes associated with nitrobenzene-d5 (naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) and those associated with 2-fluorobiphenyl (2-chloronaphthalene, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, fluoranthene, and pyrene) to be biased high in these samples. However, these analytes either exhibited non-detectable concentrations or exceeded ADEC cleanup criteria by at least 500 percent; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. These analytes are qualified in these samples in Table 3 with a “J” and should be considered to have estimated concentrations.

The recovery of surrogate nitrobenzene-d5 in Sample SB6-2 was below the laboratory's acceptance criteria, indicating the potential for associated analytes naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene to be biased low in this sample. However, because all three of these analytes exhibited concentrations that exceeded ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. These analytes are qualified in these samples in Table 3 with a "J" and should be considered to have estimated concentrations.

Sample SB6-3 is a duplicate of Sample SB6-1, and was collected to evaluate field sampling precision. The RPDs between reported concentrations within the sample/duplicate pairs ranged from 11 percent to 143 percent. The RPDs between reported concentrations of RRO, 1,1,2-trichloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-methyl-2-pentanone (MIBK), ethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, p-isopropyltoluene, sec-butylbenzene, and total xylenes ranged from 60 percent to 143 percent. This indicates relatively poor field sampling precision with respect to these analytes, and may be due to soil heterogeneity. Therefore, the positively detected results for these analytes in all soil samples collected during the same day are qualified with a "J" in Table 3 and should be considered estimated values. The RPDs between the reported concentrations of GRO, DRO, 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene ranged between 11 percent and 32 percent which is below the ADEC's acceptable limit of 50 percent. This indicates relatively good field sampling precision with respect to these analytes. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

Sample SB2-3 is a duplicate of Sample SB2-1, and was collected to evaluate field sampling precision. The RPD between the reported concentrations of RRO was 42 percent which is below the ADEC's acceptable limit of 50 percent. This indicates relatively good field sampling precision with respect to this analyte. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

Laboratory Data Package L1499074: The sample cooler arrived at the laboratory with a measured temperature blank of 3.3 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius. The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

The recoveries of bromomethane and naphthalene in the CCV sample for EPA 8260 analyses were below the laboratory's acceptance criteria, indicating the potential for these analytes to be biased low in the associated samples (SB1-1, SB1-3, GAC-2, SB11-1, and SB193-1). However, the concentrations of bromomethane in these samples were non-detectable at MDLs that exceeded the ADEC cleanup criterion; therefore, it cannot be determined if the actual concentrations exceed the ADEC cleanup criterion. The concentrations of naphthalene were either non-detectable at MDLs that were below the ADEC cleanup criterion, or in cases where they were non-detectable at MDLs that exceeded the ADEC cleanup criterion, naphthalene was non-detectable at MDLs that were below the ADEC cleanup criterion or detected at concentrations of at least 83 percent below the ADEC cleanup criterion when analyzed via Method EPA 8270 SIM. Therefore, for naphthalene, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The detections of naphthalene in these samples are qualified with a "J" in Tables 6 and 7 and should be considered estimated concentrations.

The recovery of acetone in a LCSD exceeded the laboratory's acceptance criteria indicating the potential for the acetone concentrations in associated Samples SB1-1, SB1-3, GAC-2, SB11-1, and SB19-3 to be biased high. However, acetone was non-detectable in these samples at MDLs that were below the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of 1,1,2-trichloroethane, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, bromoform, dibromomethane and naphthalene exceeded the laboratory's acceptance criteria indicating the potential for these analyte concentrations in the associated trip blank sample to be biased high. However, the concentrations of all of these analytes were non-detectable in the associated project samples; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recovery of surrogate n-triacontane d62 associated with RRO analysis for Sample SB193-1 was zero; therefore, the RRO concentration in this sample is qualified with a "J" in Table 6 and should be considered to be an estimate. Because the RRO concentration was only about 4 percent below the ADEC cleanup criterion, it is our opinion that this QC failure may impact the interpretation of the sample result; it may be that the actual concentration of RRO in this sample exceeds the ADEC cleanup criterion. Therefore, for this sample, it may be prudent to consider this location as being potentially positive for RRO. Thus, we have included a note to this effect on Figure 6.

The recoveries of DRO in one MS sample and two MSD samples exceeded the laboratory's acceptance criteria, indicating that the DRO concentration in the associated project samples could be biased high. However, these QC samples were derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of RRO in two MS samples and one MSD sample were below the laboratory's acceptance criteria, indicating the potential that the RRO concentrations in the associated project samples could be biased low. However, these QC samples were derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recovery of RRO in a MSD sample was below the laboratory's acceptance criteria, indicating the potential that the RRO concentrations in the associated project sample (SB1-1) could be biased low. However, the RRO concentration in this soil sample was two orders of magnitude below the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The RRO detection in SB1-1 is qualified with a "J" in Table 2 and should be considered an estimated concentration.

The RPDs for DRO and/or RRO in three MSD samples exceeded the laboratory's acceptance criteria, indicating the potential for the associated DRO concentrations in associated Samples SB11-1 and SB193-1 and the RRO concentrations in associated Samples SB193-1, SB1-1, SB1-3, and GAC-2 to be biased. However, the DRO concentrations in SB11-1 and SB193-1 were one order of magnitude below and above the ADEC cleanup criterion, respectively; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The RRO concentrations in Samples SB1-1, SB1-3, and GAC-2 were either non-detectable at a MDL that was two orders of magnitude below the ADEC cleanup criterion, or were detected at concentrations that were two orders of magnitude below the ADEC cleanup criterion. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. Because the RRO concentration in SB193-1 was only about 4 percent below the ADEC cleanup criterion, it is our opinion that this QC failure may impact the interpretation of the sample result; it may be that the actual concentration of RRO in this sample exceeds the ADEC cleanup criterion. The impacted DRO and RRO concentrations are qualified with a "J" in Tables 6 and 7 and should be considered estimates.

Sample SB1-3 was a duplicate sample of Sample SB1-1. RRO, PFHxS, and PFOS exhibited RPDs that were within the ADEC recommended acceptance range of less than 50 percent. The RPDs for the other

analytes in these samples could not be calculated because one or both of the analytes were non-detectable.

6.0 CONCLUSIONS

As described above, soil samples were collected between May 18 and May 26, 2022, from 187 soil borings that were advanced at the subject property during this site assessment. These activities were performed to evaluate the potential for the presence of soil contamination at the subject property, stemming from historic sources of hydrocarbon contamination and historic use of PFAS-containing AFFF that was identified during previous characterization work conducted by Shannon & Wilson in June of 2021.

Fifty-nine soil borings located within four distinct work areas at the subject property exhibited concentrations of PFAS analytes that exceed applicable ADEC cleanup criteria. An additional 61 soil borings contained PFAS analytes at detectable concentrations which did not exceed applicable ADEC cleanup criteria. Eight soil borings contained hydrocarbon analytes at concentrations which exceed applicable ADEC cleanup criteria, two of which also contained PFAS analytes at concentrations which exceed applicable ADEC cleanup criteria and six of which did not. One soil boring, SB193-1, contained hydrocarbon analytes at concentrations which may exceed applicable ADEC cleanup criteria, but which could not be determined to do so due to laboratory data quality issues.

Contamination at concentrations exceeding applicable ADEC cleanup criteria was identified in all five planned work areas. The vertical and horizontal extent of contaminated soils was not fully characterized within any of these areas because this action was not part of the planned scope of work for this project.

Based on the analytical results, it is recommended that the GAC be disposed of at the local landfill, after permission to do so is received from the landfill and the ADEC.

It is recommended that any soils or water removed during construction activities at this site be handled appropriately in accordance with ADEC comments for storage, removal, and disposal. Guidelines for handling these materials will be presented in a companion document, Contaminated Materials Management Plan.

It is recommended that a copy of this report be provided to the ADEC for their review.

7.0 EXCLUSIONS AND CONSIDERATIONS

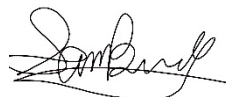
This report presents facts, observations, and inferences based on conditions observed during the period of our project activities, and only those conditions that were evaluated as part of our scope of work. Our conclusions are based solely on our observations made and work conducted, and only apply to the immediate vicinities of the locations where samples were collected. In addition, changes to site conditions may have occurred since the completion of our project activities. These changes may be from the actions of man or nature. Changes in regulations may also impact the interpretation of site conditions. BGES will not disclose our findings to any parties other than our client as listed above, except as directed by our client, or as required by law.

The field work described in this report was performed by Carson Kent, and Sam Bundy, both of whom are QEPs as defined by the ADEC. Carson Kent is an Environmental Scientist II of BGES and Sam Bundy is an Environmental Scientist I of BGES. This report was prepared by Carson Kent. The report was reviewed and approved by Robert Braunstein, C.P.G.; P.G. Mr. Braunstein is a Certified Professional Geologist with more than 40 years of geological and environmental consulting experience and has conducted or managed thousands of site characterization and remediation projects throughout Alaska and the lower 48 states.

Field Work by:

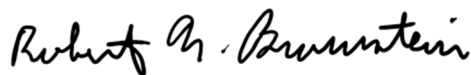


Carson Kent
Environmental Scientist II



Sam Bundy
Environmental Scientist

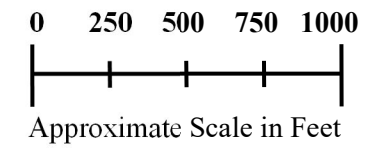
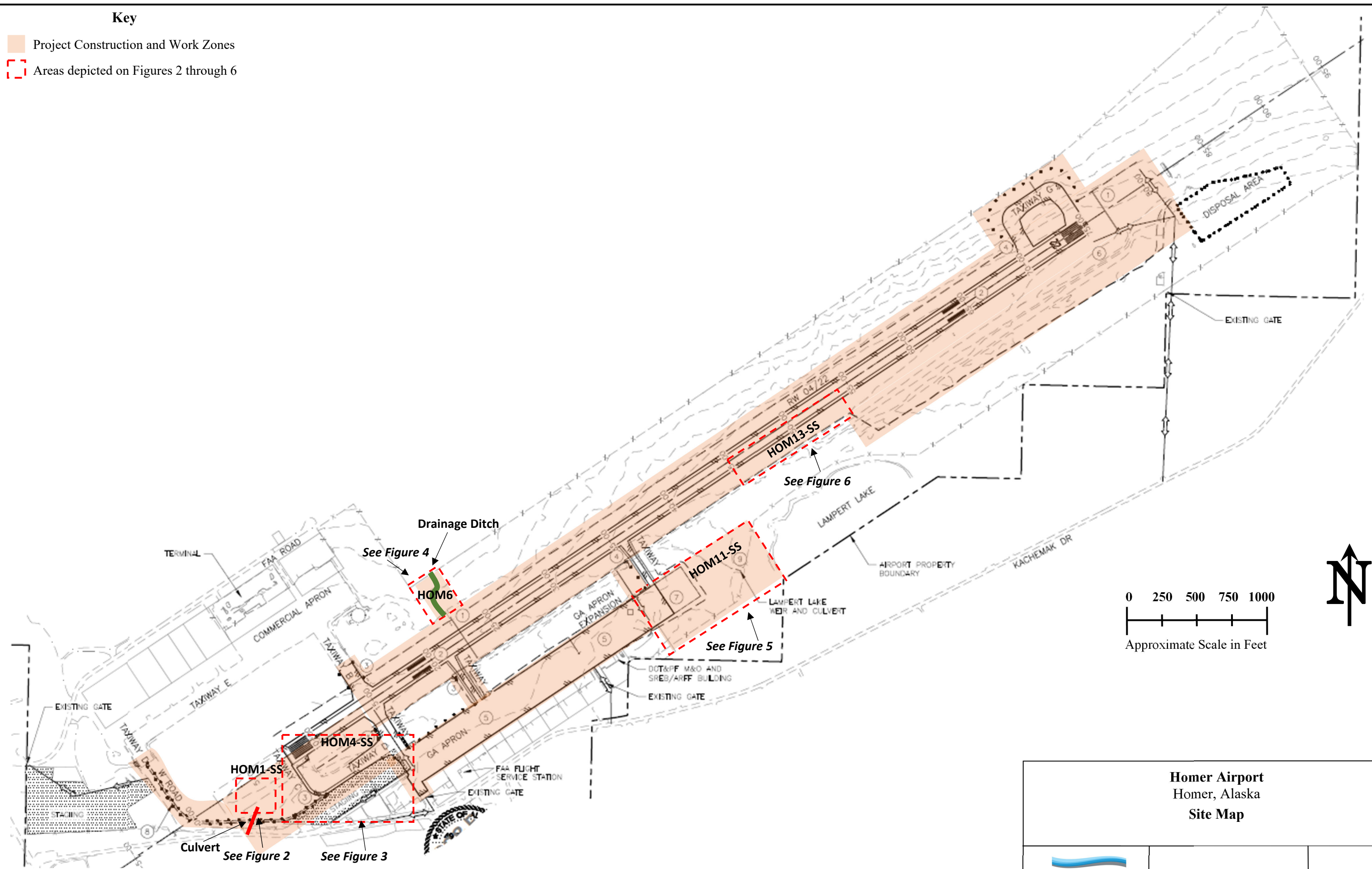
Report Reviewed and Approved by:



Robert N. Braunstein, C.P.G., P.G.
Principal Geologist

Key

- Project Construction and Work Zones
- Areas depicted on Figures 2 through 6



Source: Construction Plans, State of Alaska Department of Transportation and Public Facilities, Contract No. CFAPT00491; Sheet 6

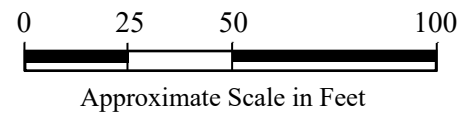
Homer Airport Homer, Alaska Site Map		
	August 2022	Figure 1



Key

- Soil Boring Where PFAS Analyte(s) Exceed ADEC Regulatory Limits for Migration to Groundwater

PFAS = Per- and Polyfluoroalkyl Substances



Homer Airport
Homer, Alaska
HOM1-SS Vicinity Map

Key

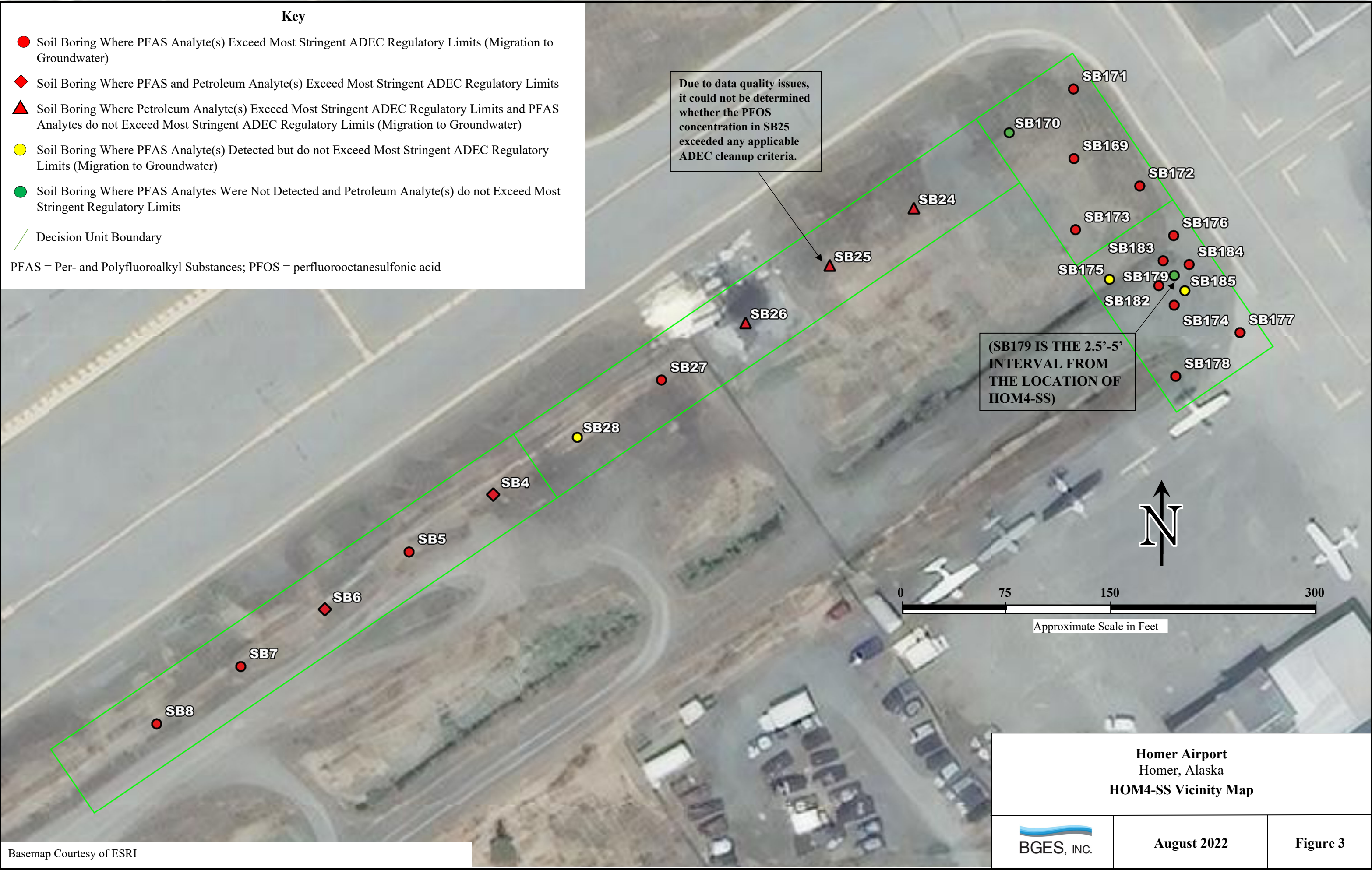
- Soil Boring Where PFAS Analyte(s) Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- ◆ Soil Boring Where PFAS and Petroleum Analyte(s) Exceed Most Stringent ADEC Regulatory Limits
- ▲ Soil Boring Where Petroleum Analyte(s) Exceed Most Stringent ADEC Regulatory Limits and PFAS Analytes do not Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- Soil Boring Where PFAS Analyte(s) Detected but do not Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- Soil Boring Where PFAS Analytes Were Not Detected and Petroleum Analyte(s) do not Exceed Most Stringent Regulatory Limits

— Decision Unit Boundary

PFAS = Per- and Polyfluoroalkyl Substances; PFOS = perfluorooctanesulfonic acid

Due to data quality issues, it could not be determined whether the PFOS concentration in SB25 exceeded any applicable ADEC cleanup criteria.

(SB179 IS THE 2.5'-5' INTERVAL FROM THE LOCATION OF HOM4-SS)



Key

▲ Soil Boring Where Petroleum Analyte(s) Exceed the Most Stringent ADEC Regulatory Limits and PFAS Analytes do not Exceed the Most Stringent ADEC Regulatory Limits (Migration to Groundwater)

PFAS = Per- and Polyfluoroalkyl Substances

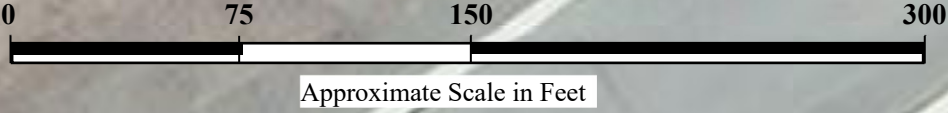


HOM6-SS

SB3

Drainage Ditch

SB2



Homer Airport
Homer, Alaska
HOM6-SS Vicinity Map



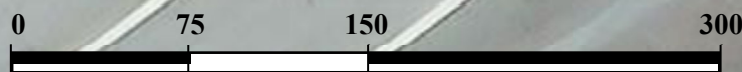
August 2022

Figure 4

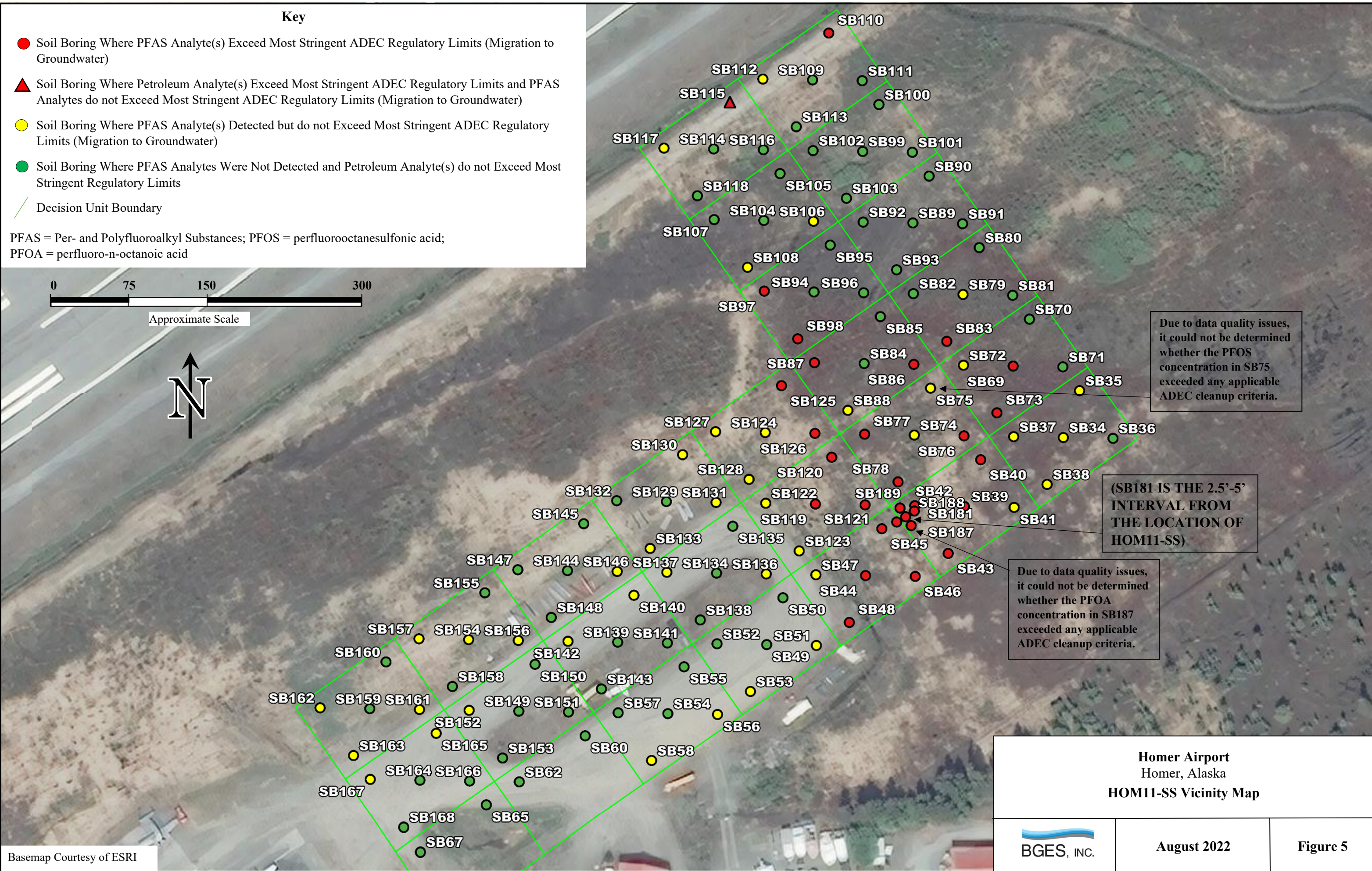
Key

- Soil Boring Where PFAS Analyte(s) Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- ▲ Soil Boring Where Petroleum Analyte(s) Exceed Most Stringent ADEC Regulatory Limits and PFAS Analytes do not Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- Soil Boring Where PFAS Analyte(s) Detected but do not Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- Soil Boring Where PFAS Analytes Were Not Detected and Petroleum Analyte(s) do not Exceed Most Stringent Regulatory Limits
- Decision Unit Boundary

PFAS = Per- and Polyfluoroalkyl Substances; PFOS = perfluorooctanesulfonic acid; PFOA = perfluoro-n-octanoic acid



Approximate Scale



Due to data quality issues, it could not be determined whether the PFOS concentration in SB75 exceeded any applicable ADEC cleanup criteria.

(SB181 IS THE 2.5'-5' INTERVAL FROM THE LOCATION OF HOM11-SS)

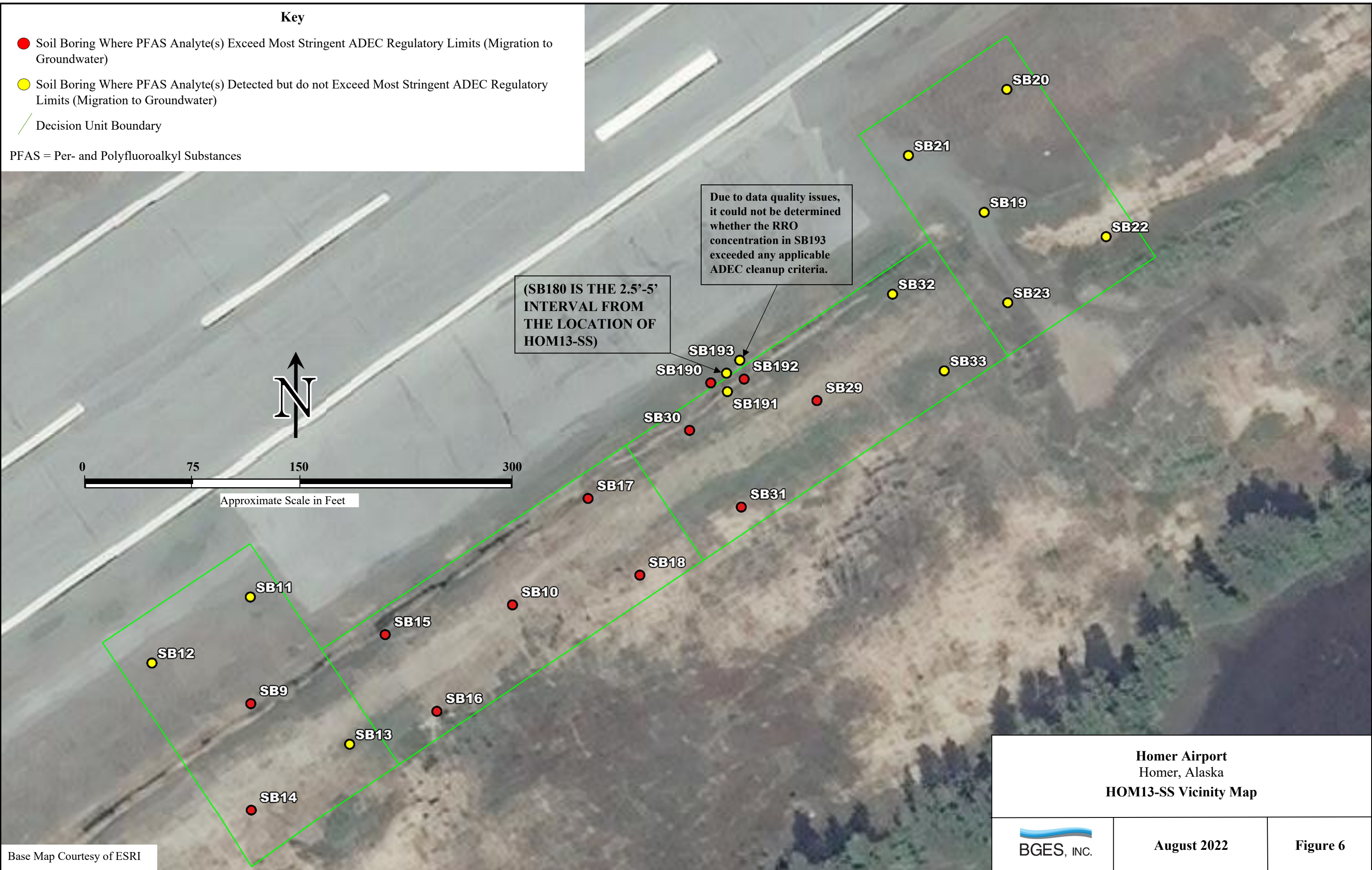
Due to data quality issues, it could not be determined whether the PFOA concentration in SB187 exceeded any applicable ADEC cleanup criteria.

<p>Homer Airport Homer, Alaska HOM11-SS Vicinity Map</p>		
<p>BGES, INC.</p>	<p>August 2022</p>	<p>Figure 5</p>

Key

- Soil Boring Where PFAS Analyte(s) Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- Soil Boring Where PFAS Analyte(s) Detected but do not Exceed Most Stringent ADEC Regulatory Limits (Migration to Groundwater)
- Decision Unit Boundary

PFAS = Per- and Polyfluoroalkyl Substances



**Homer Airport
Homer, Alaska
HOM13-SS Vicinity Map**

**TABLE 1
SOIL BORING LOCATIONS
HOMER AIRPORT
HOMER ALASKA**

Soil Boring ID	Work Area	Latitude	Longitude
SB1	HOM1	59.63928	-151.49256
SB2	HOM6	59.64316	-151.48583
SB3	HOM6	59.64343	-151.48624
SB4	HOM4	59.63975	-151.48918
SB5	HOM4	59.63967	-151.48943
SB6	HOM4	59.63958	-151.48967
SB7	HOM4	59.63950	-151.48992
SB8	HOM4	59.63941	-151.49017
SB9	HOM13	59.64584	-151.47429
SB10	HOM13	59.64598	-151.47353
SB11	HOM13	59.64599	-151.47429
SB12	HOM13	59.64590	-151.47458
SB13	HOM13	59.64578	-151.47400
SB14	HOM13	59.64568	-151.47429
SB15	HOM13	59.64594	-151.47390
SB16	HOM13	59.64582	-151.47375
SB17	HOM13	59.64614	-151.47331
SB18	HOM13	59.64603	-151.47316
SB19	HOM13	59.64659	-151.47209
SB20	HOM13	59.64674	-151.47209
SB21	HOM13	59.64665	-151.47237
SB22	HOM13	59.64653	-151.47180
SB23	HOM13	59.64643	-151.47208
SB24	HOM4	59.64018	-151.48796
SB25	HOM4	59.64009	-151.48820
SB26	HOM4	59.64001	-151.48845
SB27	HOM4	59.63992	-151.48869
SB28	HOM4	59.63984	-151.48894
SB29	HOM13	59.64628	-151.47264
SB30	HOM13	59.64624	-151.47301
SB31	HOM13	59.64613	-151.47286
SB32	HOM13	59.64644	-151.47242
SB33	HOM13	59.64633	-151.47227
SB34	HOM11	59.64334	-151.47689
SB35	HOM11	59.64346	-151.47680
SB36	HOM11	59.64334	-151.47663
SB37	HOM11	59.64334	-151.47714
SB38	HOM11	59.64322	-151.47697
SB39	HOM11	59.64316	-151.47740
SB40	HOM11	59.64328	-151.47731
SB41	HOM11	59.64316	-151.47714

TABLE 1
SOIL BORING LOCATIONS
HOMER AIRPORT
HOMER ALASKA

SB42	HOM11	59.64316	-151.47766
SB43	HOM11	59.64304	-151.47748
SB44	HOM11	59.64298	-151.47791
SB45	HOM11	59.64310	-151.47783
SB46	HOM11	59.64298	-151.47765
SB47	HOM11	59.64298	-151.47817
SB48	HOM11	59.64285	-151.47800
SB49	HOM11	59.64280	-151.47843
SB50	HOM11	59.64292	-151.47834
SB51	HOM11	59.64279	-151.47817
SB52	HOM11	59.64280	-151.47868
SB53	HOM11	59.64267	-151.47851
SB54	HOM11	59.64261	-151.47894
SB55	HOM11	59.64274	-151.47885
SB56	HOM11	59.64261	-151.47868
SB57	HOM11	59.64262	-151.47920
SB58	HOM11	59.64249	-151.47902
SB59	HOM11	59.64243	-151.47945
SB60	HOM11	59.64256	-151.47937
SB61	HOM11	59.64243	-151.47919
SB62	HOM11	59.64243	-151.47971
SB63	HOM11	59.64231	-151.47954
SB64	HOM11	59.64225	-151.47996
SB65	HOM11	59.64237	-151.47988
SB66	HOM11	59.64225	-151.47971
SB67	HOM11	59.64225	-151.48022
SB68	HOM11	59.64213	-151.48005
SB69	HOM11	59.64353	-151.47715
SB70	HOM11	59.64365	-151.47706
SB71	HOM11	59.64353	-151.47689
SB72	HOM11	59.64353	-151.47740
SB73	HOM11	59.64341	-151.47723
SB74	HOM11	59.64335	-151.47766
SB75	HOM11	59.64347	-151.47758
SB76	HOM11	59.64335	-151.47740
SB77	HOM11	59.64335	-151.47792
SB78	HOM11	59.64322	-151.47774
SB79	HOM11	59.64372	-151.47741
SB80	HOM11	59.64384	-151.47732
SB81	HOM11	59.64372	-151.47715
SB82	HOM11	59.64372	-151.47766
SB83	HOM11	59.64359	-151.47749

**TABLE 1
SOIL BORING LOCATIONS
HOMER AIRPORT
HOMER ALASKA**

SB84	HOM11	59.64354	-151.47792
SB85	HOM11	59.64366	-151.47784
SB86	HOM11	59.64353	-151.47766
SB87	HOM11	59.64354	-151.47818
SB88	HOM11	59.64341	-151.47800
SB89	HOM11	59.64391	-151.47767
SB90	HOM11	59.64403	-151.47758
SB91	HOM11	59.64390	-151.47741
SB92	HOM11	59.64391	-151.47792
SB93	HOM11	59.64378	-151.47775
SB94	HOM11	59.64372	-151.47818
SB95	HOM11	59.64385	-151.47810
SB96	HOM11	59.64372	-151.47792
SB97	HOM11	59.64373	-151.47844
SB98	HOM11	59.64360	-151.47826
SB99	HOM11	59.64409	-151.47793
SB100	HOM11	59.64422	-151.47784
SB101	HOM11	59.64409	-151.47767
SB102	HOM11	59.64410	-151.47818
SB103	HOM11	59.64397	-151.47801
SB104	HOM11	59.64391	-151.47844
SB105	HOM11	59.64404	-151.47836
SB106	HOM11	59.64391	-151.47818
SB107	HOM11	59.64391	-151.47870
SB108	HOM11	59.64379	-151.47852
SB109	HOM11	59.64428	-151.47819
SB110	HOM11	59.64441	-151.47810
SB111	HOM11	59.64428	-151.47793
SB112	HOM11	59.64428	-151.47845
SB113	HOM11	59.64416	-151.47827
SB114	HOM11	59.64410	-151.47870
SB115	HOM11	59.64422	-151.47862
SB116	HOM11	59.64410	-151.47844
SB117	HOM11	59.64410	-151.47896
SB118	HOM11	59.64398	-151.47878
SB119	HOM11	59.64317	-151.47817
SB120	HOM11	59.64329	-151.47809
SB121	HOM11	59.64316	-151.47791
SB122	HOM11	59.64317	-151.47843
SB123	HOM11	59.64304	-151.47826
SB124	HOM11	59.64335	-151.47843
SB125	HOM11	59.64348	-151.47835

**TABLE 1
SOIL BORING LOCATIONS
HOMER AIRPORT
HOMER ALASKA**

BGES, INC.

SB126	HOM11	59.64335	-151.47817
SB127	HOM11	59.64336	-151.47869
SB128	HOM11	59.64323	-151.47852
SB129	HOM11	59.64317	-151.47895
SB130	HOM11	59.64330	-151.47886
SB131	HOM11	59.64317	-151.47869
SB132	HOM11	59.64317	-151.47920
SB133	HOM11	59.64305	-151.47903
SB134	HOM11	59.64298	-151.47869
SB135	HOM11	59.64311	-151.47860
SB136	HOM11	59.64298	-151.47843
SB137	HOM11	59.64299	-151.47894
SB138	HOM11	59.64286	-151.47877
SB139	HOM11	59.64280	-151.47920
SB140	HOM11	59.64293	-151.47911
SB141	HOM11	59.64280	-151.47894
SB142	HOM11	59.64280	-151.47946
SB143	HOM11	59.64268	-151.47928
SB144	HOM11	59.64299	-151.47946
SB145	HOM11	59.64311	-151.47937
SB146	HOM11	59.64299	-151.47920
SB147	HOM11	59.64299	-151.47972
SB148	HOM11	59.64287	-151.47954
SB149	HOM11	59.64262	-151.47971
SB150	HOM11	59.64274	-151.47963
SB151	HOM11	59.64262	-151.47945
SB152	HOM11	59.64262	-151.47997
SB153	HOM11	59.64250	-151.47980
SB154	HOM11	59.64281	-151.47997
SB155	HOM11	59.64293	-151.47989
SB156	HOM11	59.64281	-151.47971
SB157	HOM11	59.64281	-151.48023
SB158	HOM11	59.64269	-151.48006
SB159	HOM11	59.64263	-151.48048
SB160	HOM11	59.64275	-151.48040
SB161	HOM11	59.64262	-151.48023
SB162	HOM11	59.64263	-151.48074
SB163	HOM11	59.64250	-151.48057
SB164	HOM11	59.64244	-151.48022
SB165	HOM11	59.64256	-151.48014
SB166	HOM11	59.64244	-151.47997
SB167	HOM11	59.64244	-151.48048

**TABLE 1
SOIL BORING LOCATIONS
HOMER AIRPORT
HOMER ALASKA**

BGES, INC.

SB168	HOM11	59.64232	-151.48031
SB169	HOM4	59.64025	-151.48749
SB170	HOM4	59.64029	-151.48768
SB171	HOM4	59.64035	-151.48749
SB172	HOM4	59.64021	-151.48730
SB173	HOM4	59.64014	-151.48748
SB174	HOM4	59.64003	-151.48720
SB175	HOM4	59.64007	-151.48739
SB176	HOM4	59.64014	-151.48720
SB177	HOM4	59.63999	-151.48700
SB178	HOM4	59.63993	-151.48719
SB179	HOM4	59.64008	-151.48720
SB180	HOM13	59.64632	-151.47290
SB181	HOM11	59.64313	-151.47770
SB182	HOM4	59.64006	-151.48724
SB183	HOM4	59.64010	-151.48723
SB184	HOM4	59.64009	-151.48715
SB185	HOM4	59.64005	-151.48717
SB186	HOM11	59.64312	-151.47775
SB187	HOM11	59.64311	-151.47768
SB188	HOM11	59.64315	-151.47766
SB189	HOM11	59.64316	-151.47773
SB190	HOM13	59.64631	-151.47295
SB191	HOM13	59.64630	-151.47290
SB192	HOM13	59.64632	-151.47285
SB193	HOM13	59.64634	-151.47287

TABLE 2
HOM1-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB1-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	2.63	1.00	300	AK101	
	DRO	ND	210	91.1	250	AK102	
	RRO	153	J 210	70.1	10000	AK103	
		<i>1,1,1,2-Tetrachloroethane</i>	ND	0.0279	0.00826	0.022	8260D
		<i>1,1,2-Trichloroethane</i>	ND	0.0279	0.0118	0.0014	8260D
		<i>1,1,2,2-Tetrachloroethane</i>	ND	0.0279	0.00644	0.0030	8260D
		<i>1,2-Dibromoethane</i>	ND	0.0279	0.00697	0.00024	8260D
		<i>1,2-Dichloroethane</i>	ND	0.0279	0.0126	0.0055	8260D
		<i>1,2,3-Trichloropropane</i>	ND	0.0697	0.00680	0.000031	8260D
		<i>Benzene</i>	ND	0.0279	0.0105	0.022	8260D
		<i>Bromodichloromethane</i>	ND	0.0279	0.0202	0.0043	8260D
		<i>Bromomethane</i>	ND	J 0.139	0.0327	0.024	8260D
		<i>Carbon tetrachloride</i>	ND	0.0279	0.00692	0.021	8260D
		<i>Chlorodibromomethane</i>	ND	0.0279	0.00625	0.0027	8260D
		<i>Chloroform</i>	ND	0.139	0.0288	0.0071	8260D
		<i>Dibromomethane</i>	ND	0.0279	0.00976	0.025	8260D
		<i>Ethylbenzene</i>	ND	0.0279	0.00837	0.13	8260D
		<i>Hexachloro-1,3-butadiene</i>	ND	0.0279	0.00954	0.020	8260D
		<i>Naphthalene</i>	ND	J 0.139	0.139	0.038	8260D
		<i>Toluene</i>	ND	0.139	0.0344	6.7	8260D
		<i>Total Xylenes</i>	ND	0.0837	0.0139	1.5	8260D
		<i>Trichloroethene</i>	ND	0.0279	0.00558	0.011	8260D
		<i>Vinyl chloride</i>	ND	0.0279	0.00630	0.00080	8260D
		All other VOCs	ND	Varies	Varies	Varies	8260D
		All PAHs	ND	Varies	Varies	Varies	8270D-SIM
		11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUd)	ND	0.00010	0.000017	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000015	N/A	PFAS by ID SOP
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000041	N/A	PFAS by ID SOP
		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP
		N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoro sulfonic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00070	J 0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000024	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0058	J 0.00010	0.000030	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	

TABLE 2
HOM1-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB1-3	GRO	ND	3.55	1.35	300	AK101
(Duplicate of SB1-1)	DRO	ND	229	99.1	250	AK102
RPD = 14%	RRO	176	J 229	76.2	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	<i>ND</i>	<i>0.0330</i>	<i>0.00977</i>	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	<i>ND</i>	<i>0.0330</i>	<i>0.0140</i>	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	<i>ND</i>	<i>0.0330</i>	<i>0.00761</i>	0.0030	8260D
	<i>1,2-Dibromoethane</i>	<i>ND</i>	<i>0.0330</i>	<i>0.00825</i>	0.00024	8260D
	<i>1,2-Dichloroethane</i>	<i>ND</i>	<i>0.0330</i>	<i>0.0149</i>	0.0055	8260D
	<i>1,2-Dichloropropane</i>	<i>ND</i>	<i>0.0330</i>	0.00541	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	<i>ND</i>	<i>0.0825</i>	<i>0.00805</i>	0.000031	8260D
	<i>Benzene</i>	<i>ND</i>	<i>0.0330</i>	0.0124	0.022	8260D
	<i>Bromodichloromethane</i>	<i>ND</i>	<i>0.0330</i>	<i>0.0239</i>	0.0043	8260D
	<i>Bromomethane</i>	<i>ND</i>	J <i>0.165</i>	<i>0.0387</i>	0.024	8260D
	<i>Carbon tetrachloride</i>	<i>ND</i>	<i>0.0330</i>	0.00818	0.021	8260D
	<i>Chlorodibromomethane</i>	<i>ND</i>	<i>0.0330</i>	<i>0.00739</i>	0.0027	8260D
	<i>Chloroform</i>	<i>ND</i>	<i>0.165</i>	<i>0.0340</i>	0.0071	8260D
	<i>Dibromomethane</i>	<i>ND</i>	<i>0.0330</i>	0.0115	0.025	8260D
	<i>Ethylbenzene</i>	<i>ND</i>	<i>0.0330</i>	0.00990	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	<i>ND</i>	<i>0.0330</i>	0.0113	0.020	8260D
	<i>Naphthalene</i>	<i>ND</i>	J <i>0.165</i>	<i>0.165</i>	0.038	8260D
	<i>Toluene</i>	<i>ND</i>	<i>0.165</i>	0.0406	6.7	8260D
	<i>Total Xylenes</i>	<i>ND</i>	<i>0.0990</i>	0.0165	1.5	8260D
	<i>Trichloroethene</i>	<i>ND</i>	<i>0.0330</i>	0.00660	0.011	8260D
	<i>Vinyl chloride</i>	<i>ND</i>	<i>0.0330</i>	<i>0.00746</i>	0.00080	8260D
	All other VOCs	<i>ND</i>	varies	varies	varies	8260D
	Benzo(a)anthracene	0.0102	0.00687	0.00198	0.70	8270D-SIM
	Benzo(a)pyrene	0.0112	0.00687	0.00205	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.0177	0.00687	0.00175	15	8270D-SIM
	Benzo(g,h,i)perylene	0.00995	0.00687	0.00203	2300	8270D-SIM
	Benzo(k)fluoranthene	0.00621	J 0.00687	0.00246	150	8270D-SIM
	Chrysene	0.00868	0.00687	0.00266	600	8270D-SIM
	Fluoranthene	0.0254	0.00687	0.00260	590	8270D-SIM
	Indeno(1,2,3-cd)pyrene	0.00848	0.00687	0.00207	15	8270D-SIM
	Phenanthrene	0.0135	0.00687	0.00264	39	8270D-SIM
	Pyrene	0.0191	0.00687	0.00229	87	8270D-SIM
	All other PAHs	<i>ND</i>	varies	varies	varies	8270D-SIM
	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUd)	<i>ND</i>	0.00010	0.00017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	<i>ND</i>	0.00010	0.00033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	<i>ND</i>	0.00010	0.00034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	<i>ND</i>	0.00010	0.00027	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	<i>ND</i>	0.00010	0.00015	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	<i>ND</i>	0.00010	0.00040	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	<i>ND</i>	0.00011	0.00031	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	<i>ND</i>	0.00011	0.00026	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	<i>ND</i>	0.00011	0.00026	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	<i>ND</i>	0.00011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	<i>ND</i>	0.00011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	<i>ND</i>	0.000093	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	<i>ND</i>	0.00011	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	<i>ND</i>	0.00011	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	<i>ND</i>	0.00010	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	<i>ND</i>	0.00011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	<i>ND</i>	0.00010	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	<i>ND</i>	0.00011	0.00032	N/A	PFAS by ID SOP
RPD = 1%	Perfluorohexanesulfonic acid (PFHxS)	0.00069	J 0.00010	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	<i>ND</i>	0.00011	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	<i>ND</i>	0.00010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	<i>ND</i>	0.00011	0.00024	0.0017	PFAS by ID SOP
RPD = 26%	Perfluorooctanesulfonic acid (PFOS)	0.0075	J 0.00010	0.00029	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	<i>ND</i>	0.00011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	<i>ND</i>	0.00011	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	<i>ND</i>	0.00010	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	<i>ND</i>	0.00011	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	<i>ND</i>	0.00011	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	<i>ND</i>	0.00011	0.00030	N/A	PFAS by ID SOP

¹ Soil cleanup criteria for VOCs and PAHs are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Migration to Groundwater values (November 18, 2021) except for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenzo[a,h]anthracene, and indeno[1,2,3-cd]pyrene; which are obtained from the more stringent Under 40-inch zone (referring to annual precipitation) human health pathway (November 18, 2021).

Soil cleanup criteria for PFOS and PFOA are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021).

Soil cleanup criteria for GRO, and DRO are obtained from Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021). Soil cleanup criterion for RRO is obtained from the Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation) ingestion value.

Samples were analyzed for VOCs by EPA Method 8260D, for PAHs by EPA 8270D-SIM, for GRO by AK 101, for DRO by AK 102, and for RRO by AK 103.

Samples were analyzed for PFAS by Isotope Dilution pursuant to LC/MS/MS Quality Systems Manual (QSM) 5.3 Table B-15.

ADEC = Alaska Department of Environmental Conservation; PID = photoionization detector; ppm = parts per million; EPA = Environmental Protection Agency

DRO = diesel range organics; GRO = gasoline range organics; RRO = residual range organics; PAHs = polynuclear aromatic hydrocarbons;

VOCs = volatile organic compounds; RDL = reporting detection limit; MDL = method detection limit; ND = not detectable, AK = Alaska method;

mg/Kg = milligrams per kilogram; PFAS = per- and polyfluoroalkyl substances; bg = below grade; ft = feet

Bold = The concentration exceeds the applicable ADEC cleanup criterion.

Italics = The RDL and/or MDL exceeds the applicable ADEC cleanup criterion and the analyte is not detected.

Underline = The RDL and MDL exceed the applicable ADEC cleanup criterion and the analyte is not detected.

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method		
SB4-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0022	0.00030	N/A	PFAS by ID SOP		
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0022	0.00033	N/A	PFAS by ID SOP		
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0022	0.00024	N/A	PFAS by ID SOP		
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0022	0.00032	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0022	0.00038	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0022	0.00043	N/A	PFAS by ID SOP		
	Perfluoro-1-butanefluoric acid (PFBS)	0.00019	J	0.0011	0.00014	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00019	J	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00031	J	0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00045	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.00025	J	0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00023	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.0038	J	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.027	J	0.0011	0.00039	0.0030	PFAS by ID SOP	
	SB4-2 PID = 146 ppm Depth = 2.5 - 5 ft bg	GRO	95.1	J	81.1	30.9	300	AK101
		DRO	1700		244	106	250	AK102
		RRO	7380	J	244	81.2	10000	AK103
<i>1,1,1,2-Tetrachloroethane</i>		ND		0.0405	0.0120	0.022	8260D	
<i>1,1,2-Trichloroethane</i>		ND		0.0405	0.0172	0.0014	8260D	
<i>1,1,2,2-Tetrachloroethane</i>		ND		0.0405	0.00936	0.0030	8260D	
<i>1,2-Dibromoethane</i>		ND		0.0405	0.0101	0.00024	8260D	
<i>1,2-Dichloroethane</i>		ND		0.0405	0.0182	0.0055	8260D	
<i>1,2-Dichloropropane</i>		ND		0.0405	0.00665	0.030	8260D	
<i>1,2,3-Trichloropropane</i>		ND		0.101	0.00988	0.000031	8260D	
1,2,3-Trimethylbenzene		0.298	J	0.0405	0.0116		8260D	
1,2,4-Trimethylbenzene		0.583	J	0.0405	0.00855	0.61	8260D	
1,3,5-Trimethylbenzene		0.230	J	0.0405	0.0108	0.66	8260D	
<i>1,4-Dichlorobenzene</i>		ND		0.0405	0.0336	0.037	8260D	
<i>Benzene</i>		ND		0.0405	0.0152	0.022	8260D	
<i>Bromodichloromethane</i>		ND		0.0405	0.0294	0.0043	8260D	
<i>Bromomethane</i>		ND		0.203	0.0474	0.024	8260D	
<i>Carbon tetrachloride</i>		ND		0.0405	0.0100	0.021	8260D	
<i>Chlorodibromomethane</i>		ND		0.0405	0.00907	0.0027	8260D	
<i>Chloroform</i>		ND		0.203	0.0418	0.0071	8260D	
<i>Dibromomethane</i>		ND		0.0405	0.0141	0.025	8260D	
Ethylbenzene		0.0171	J	0.0405	0.0122	0.13	8260D	
<i>Hexachloro-1,3-butadiene</i>		ND		0.0405	0.0139	0.020	8260D	
Isopropylbenzene		0.0241	J	0.0405	0.0172	5.6	8260D	
n-Butylbenzene		0.151	J	0.0405	0.0104	23	8260D	
n-Propylbenzene		0.0639	J	0.0405	0.00834	9.1	8260D	
Naphthalene		0.284	J	0.203	0.202	0.038	8260D	
p-Isopropyltoluene		0.0570	J	0.0405	0.00826		8260D	
sec-Butylbenzene		0.0882	J	0.0405	0.00814	42	8260D	
Toluene		ND		0.203	0.0498	6.7	8260D	
Total Xylenes		0.233	J	0.122	0.0203	1.5	8260D	
<i>Trichloroethene</i>		ND		0.0405	0.00810	0.011	8260D	
<i>Vinyl chloride</i>		ND		0.0405	0.00916	0.00080	8260D	
All other VOCs		ND		varies	varies	varies	8260D	
1-Methylnaphthalene		7.89	J	0.244	0.0548	0.41	8270D-SIM	
2-Chloronaphthalene		0.00770	J	0.0244	0.00568	26	8270D-SIM	
2-Methylnaphthalene		8.54	J	0.244	0.0521	1.3	8270D-SIM	
Acenaphthene		0.182	J	0.00732	0.00255	37	8270D-SIM	
Anthracene		0.00588	J	0.00732	0.00281	390	8270D-SIM	
Benzo(a)anthracene		0.0266		0.00732	0.00211	0.70	8270D-SIM	
Benzo(a)pyrene		0.0531		0.00732	0.00218	1.5	8270D-SIM	
Benzo(b)fluoranthene		0.0315		0.00732	0.00187	15	8270D-SIM	
Benzo(g,h,i)perylene		0.0228		0.00732	0.00216	2300	8270D-SIM	
Benzo(k)fluoranthene		0.0108		0.00732	0.00262	150	8270D-SIM	
Chrysene		0.0192		0.00732	0.00283	600	8270D-SIM	
Fluoranthene		0.0664	J	0.00732	0.00277	590	8270D-SIM	
Fluorene		0.316	J	0.00732	0.00250	36	8270D-SIM	
Indeno(1,2,3-cd)pyrene		0.0199		0.00732	0.00221	15	8270D-SIM	
Naphthalene		1.85	J	0.0244	0.00498	0.038	8270D-SIM	
Phenanthrene		0.106	J	0.00732	0.00282	39	8270D-SIM	
Pyrene		0.108	J	0.00732	0.00244	87	8270D-SIM	
All other PAHs		ND		varies	varies	varies	8270D-SIM	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB5-1	GRO	ND	J	2.83	1.08	300	AK101
PID = 2 ppm	DRO	ND	J	226	98.1	250	AK102
Depth = 0 - 2.5 ft bg	RRO	320	J	226	75.4	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	ND		0.0322	0.00952	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		0.0322	0.0136	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		0.0322	0.00742	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		0.0322	0.00804	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		0.0322	0.0145	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		0.0322	0.00527	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.0804	0.00785	0.000031	8260D
	<i>Benzene</i>	ND		0.0322	0.0121	0.022	8260D
	<i>Bromodichloromethane</i>	ND		0.0322	0.0233	0.0043	8260D
	<i>Bromomethane</i>	ND	J	0.161	0.0377	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		0.0322	0.00798	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		0.0322	0.00720	0.0027	8260D
	<i>Chloroform</i>	ND		0.161	0.0332	0.0071	8260D
	<i>Dibromomethane</i>	ND		0.0322	0.0113	0.025	8260D
	<i>Ethylbenzene</i>	ND		0.0322	0.00965	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		0.0322	0.0110	0.020	8260D
	<i>Naphthalene</i>	ND	J	0.161	0.161	0.038	8260D
	<i>Toluene</i>	ND		0.161	0.0396	6.7	8260D
	<i>Total Xylenes</i>	ND		0.0965	0.0161	1.5	8260D
	<i>Trichloroethene</i>	ND		0.0322	0.00643	0.011	8260D
	<i>Vinyl chloride</i>	ND		0.0322	0.00727	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	<i>Pyrene</i>	0.00270	J	0.00679	0.00226	87	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
	<i>1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)</i>	ND		0.0019	0.00026	N/A	PFAS by ID SOP
	<i>1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)</i>	ND		0.0019	0.00029	N/A	PFAS by ID SOP
	<i>1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)</i>	ND		0.0019	0.00020	N/A	PFAS by ID SOP
	<i>N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)</i>	ND		0.0019	0.00027	N/A	PFAS by ID SOP
	<i>N-methylperfluoro-1-octanesulfonamide (MeFOSA)</i>	ND		0.0019	0.00032	N/A	PFAS by ID SOP
	<i>N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)</i>	ND		0.0019	0.00037	N/A	PFAS by ID SOP
	<i>Perfluoro-1-butanefluoride (PFBS)</i>	ND		0.00093	0.00012	N/A	PFAS by ID SOP
	<i>Perfluoro-1-decanesulfonic acid (PFDS)</i>	ND		0.00093	0.00021	N/A	PFAS by ID SOP
	<i>Perfluoro-1-heptanesulfonic acid (PFHpS)</i>	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	<i>Perfluoro-1-nonanesulfonic acid (PFNS)</i>	ND		0.00093	0.00021	N/A	PFAS by ID SOP
	<i>Perfluoro-1-octanesulfonamide (PFOSA)</i>	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	<i>Perfluoro-1-pentanesulfonic acid (PFPeS)</i>	ND		0.00093	0.00017	N/A	PFAS by ID SOP
	<i>Perfluoro-n-butanoic acid (PFBA)</i>	ND		0.00093	0.00039	N/A	PFAS by ID SOP
	<i>Perfluoro-n-decanoic acid (PFDA)</i>	ND		0.00093	0.00015	N/A	PFAS by ID SOP
	<i>Perfluoro-n-dodecanoic acid (PFDoA)</i>	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	<i>Perfluoro-n-heptanoic acid (PFHpA)</i>	ND		0.00093	0.00013	N/A	PFAS by ID SOP
	<i>Perfluoro-n-hexanoic acid (PFHxA)</i>	ND		0.00093	0.00017	N/A	PFAS by ID SOP
	<i>Perfluoro-n-nonanoic acid (PFNA)</i>	ND		0.00093	0.00014	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.00093	0.00020	0.0017	PFAS by ID SOP
	<i>Perfluoro-n-pentanoic acid (PFPeA)</i>	ND		0.00093	0.00015	N/A	PFAS by ID SOP
	<i>Perfluoro-n-tetradecanoic acid (PFTeDA)</i>	ND		0.00093	0.00018	N/A	PFAS by ID SOP
	<i>Perfluoro-n-tridecanoic acid (PFTrDA)</i>	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	<i>Perfluoro-n-undecanoic acid (PFUdA)</i>	ND		0.00093	0.00017	N/A	PFAS by ID SOP
	<i>Perfluorohexanesulfonic acid (PFHxS)</i>	0.00044	J	0.00093	0.00016	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0041	J	0.00093	0.00033	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB6-1 PID = 538 ppm Depth = 0 - 2.5 ft bg	GRO	620	J	120	45.6	300	AK101
	DRO	4220		220	95.3	250	AK102
	RRO	121	J	220	73.3	10000	AK103
	<i>1,1-Dichloroethane</i>	ND		2.41	0.645	0.092	8260D
	<i>1,1-Dichloroethene</i>	ND		2.41	0.854	1.2	8260D
	<i>1,1,1,2-Tetrachloroethane</i>	ND		2.41	0.712	0.022	8260D
	1,1,2-Trichloroethane	2.09	J	2.41	1.02	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		2.41	0.556	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		2.41	0.601	0.00024	8260D
	<i>1,2-Dichlorobenzene</i>	ND		2.41	1.02	2.4	8260D
	<i>1,2-Dichloroethane</i>	ND		2.41	1.08	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		2.41	0.394	0.030	8260D
	<i>1,2,3-Trichlorobenzene</i>	ND		2.41	0.736	0.15	8260D
	<i>1,2,3-Trichloropropane</i>	ND		6.01	0.587	0.000031	8260D
	1,2,3-Trimethylbenzene	21.0	J	2.41	0.690		8260D
	<i>1,2,4-Trichlorobenzene</i>	ND		2.41	0.933	0.082	8260D
	1,2,4-Trimethylbenzene	50.5	J	2.41	0.508	0.61	8260D
	<i>1,3-Dichlorobenzene</i>	ND		2.41	1.44	2.3	8260D
	1,3,5-Trimethylbenzene	16.0	J	2.41	0.640	0.66	8260D
	<i>1,4-Dichlorobenzene</i>	ND		2.41	2.00	0.037	8260D
	2-Butanone (MEK)	ND		24.1	11.3	15	8260D
	4-Methyl-2-pentanone (MIBK)	5.32	J	24.1	2.29	18	8260D
	Acetone	ND	J	120	49.8	38	8260D
	Benzene	ND		2.41	0.902	0.022	8260D
	Bromobenzene	ND		2.41	0.661	0.36	8260D
	Bromodichloromethane	ND		2.41	1.74	0.0043	8260D
	Bromoform	ND		2.41	1.02	0.10	8260D
	Bromomethane	ND	J	12.0	2.81	0.024	8260D
	Carbon tetrachloride	ND		2.41	0.597	0.021	8260D
	Chlorobenzene	ND		2.41	0.462	0.46	8260D
	Chlorodibromomethane	ND		2.41	0.539	0.0027	8260D
	Chloroform	ND		12.0	2.48	0.0071	8260D
	Chloromethane	ND		6.01	1.56	0.61	8260D
	<i>cis-1,2-Dichloroethene</i>	ND		2.41	1.14	0.12	8260D
	Dibromomethane	ND		2.41	0.842	0.025	8260D
	Dichlorodifluoromethane	ND		12.0	0.690	3.9	8260D
	Ethylbenzene	3.66	J	2.41	0.722	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		2.41	0.823	0.020	8260D
	Isopropylbenzene	3.66	J	2.41	1.02	5.6	8260D
	<i>Methyl tert-butyl ether</i>	ND		2.41	0.842	0.40	8260D
	<i>Methylene Chloride</i>	ND		12.0	2.41	0.33	8260D
	n-Butylbenzene	11.8	J	2.41	0.621	23	8260D
	n-Propylbenzene	10.3	J	2.41	0.495	9.1	8260D
	Naphthalene	32.1	J	12.0	12.0	0.038	8260D
	p-Isopropyltoluene	4.40	J	2.41	0.491		8260D
	sec-Butylbenzene	6.57	J	2.41	0.483	42	8260D
	<i>Tetrachloroethene</i>	ND		2.41	0.782	0.19	8260D
	Toluene	ND		12.0	2.96	6.7	8260D
	Total Xylenes	28.6	J	7.22	1.20	1.5	8260D
	<i>trans-1,2-Dichloroethene</i>	ND		2.41	1.20	1.3	8260D
	Trichloroethene	0.486	J	2.41	0.481	0.011	8260D
	<i>Vinyl chloride</i>	ND		2.41	0.544	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	1-Methylnaphthalene	30.5	J	0.440	0.0988	0.41	8270D-SIM
	2-Methylnaphthalene	42.3	J	0.440	0.0940	1.3	8270D-SIM
	Acenaphthene	0.737	J	0.00660	0.00230	37	8270D-SIM
	Benzo(a)anthracene	0.00284	J	0.00660	0.00190	0.70	8270D-SIM
	Benzo(b)fluoranthene	0.00230	J	0.00660	0.00168	15	8270D-SIM
	Fluoranthene	0.0106	J	0.00660	0.00250	590	8270D-SIM
	Fluorene	1.67	J	0.00660	0.00226	36	8270D-SIM
Naphthalene	23.6	J	0.440	0.0898	0.038	8270D-SIM	
Phenanthrene	0.511	J	0.00660	0.00254	39	8270D-SIM	
Pyrene	0.00986	J	0.00660	0.00220	87	8270D-SIM	
All other PAHs	ND		varies	varies	varies	8270D-SIM	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0019	0.00026	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0019	0.00029	N/A	PFAS by ID SOP	
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0019	0.00020	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	0.00030	J	0.0019	0.00027	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0019	0.00037	N/A	PFAS by ID SOP	
Perfluoro-1-butananesulfonic acid (PFBS)	ND		0.00093	0.00012	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)	0.00062	J	0.00093	0.00021	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00062	J	0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)	0.0017		0.00093	0.00021	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	0.00030	J	0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00018	J	0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)	ND		0.00093	0.00039	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)	0.00020	J	0.00093	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00093	0.00013	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	0.00020	J	0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND		0.00093	0.00014	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	0.00029	J	0.00093	0.00020	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00093	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00093	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0076	J	0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.24	J	0.0047	0.0017	0.0030	PFAS by ID SOP	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB6-3						
Duplicate of SB6-1						
RPD = 32%	GRO	858	J 240	91.1	300	AK101
RPD = 11%	DRO	4700	J 235	102	250	AK102
RPD = 60%	RRO	224	J 235	78.3	10000	AK103
	<i>1,1-Dichloroethane</i>	<i>ND</i>	<i>6.82</i>	<i>1.83</i>	0.092	8260D
	<i>1,1-Dichloroethene</i>	<i>ND</i>	<i>6.82</i>	<i>2.43</i>	1.2	8260D
	<i>1,1,1,2-Tetrachloroethane</i>	<i>ND</i>	<i>6.82</i>	<i>2.02</i>	0.022	8260D
RPD = 88%	1,1,2-Trichloroethane	5.36	J 6.82	2.91	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	<i>ND</i>	<i>6.82</i>	<i>1.58</i>	0.0030	8260D
	<i>1,2-Dibromoethane</i>	<i>ND</i>	<i>6.82</i>	<i>1.71</i>	0.00024	8260D
	<i>1,2-Dichlorobenzene</i>	<i>ND</i>	<i>6.82</i>	<i>2.91</i>	2.4	8260D
	<i>1,2-Dichloroethane</i>	<i>ND</i>	<i>6.82</i>	<i>3.07</i>	0.0055	8260D
	<i>1,2-Dichloropropane</i>	<i>ND</i>	<i>6.82</i>	<i>1.12</i>	0.030	8260D
	<i>1,2,3-Trichlorobenzene</i>	<i>ND</i>	<i>6.82</i>	<i>2.09</i>	0.15	8260D
	<i>1,2,3-Trichloropropane</i>	<i>ND</i>	<i>17.1</i>	<i>1.66</i>	0.000031	8260D
RPD = 114%	1,2,3-Trimethylbenzene	77.0	J 6.82	1.95		8260D
	<i>1,2,4-Trichlorobenzene</i>	<i>ND</i>	<i>6.82</i>	<i>2.65</i>	0.082	8260D
RPD = 113%	1,2,4-Trimethylbenzene	181	J 6.82	1.45	0.61	8260D
	<i>1,3-Dichlorobenzene</i>	<i>ND</i>	<i>6.82</i>	<i>4.09</i>	2.3	8260D
RPD = 111%	1,3,5-Trimethylbenzene	56.1	J 6.82	1.81	0.66	8260D
	<i>1,4-Dichlorobenzene</i>	<i>ND</i>	<i>6.82</i>	<i>5.66</i>	0.037	8260D
	<i>2-Butanone (MEK)</i>	<i>ND</i>	<i>68.2</i>	<i>31.9</i>	15	8260D
RPD = 91%	4-Methyl-2-pentanone (MIBK)	14.2	J 68.2	6.48	18	8260D
	<i>Acetone</i>	<i>ND</i>	<i>34.1</i>	<i>142</i>	38	8260D
	<i>Benzene</i>	<i>ND</i>	<i>6.82</i>	<i>2.57</i>	0.022	8260D
	<i>Bromobenzene</i>	<i>ND</i>	<i>6.82</i>	<i>1.88</i>	0.36	8260D
	<i>Bromodichloromethane</i>	<i>ND</i>	<i>6.82</i>	<i>4.94</i>	0.0043	8260D
	<i>Bromoform</i>	<i>ND</i>	<i>6.82</i>	<i>2.89</i>	0.10	8260D
	<i>Bromomethane</i>	<i>ND</i>	<i>34.1</i>	<i>7.98</i>	0.024	8260D
	<i>Carbon tetrachloride</i>	<i>ND</i>	<i>6.82</i>	<i>1.69</i>	0.021	8260D
	<i>Chlorobenzene</i>	<i>ND</i>	<i>6.82</i>	<i>1.31</i>	0.46	8260D
	<i>Chlorodibromomethane</i>	<i>ND</i>	<i>6.82</i>	<i>1.53</i>	0.0027	8260D
	<i>Chloroform</i>	<i>ND</i>	<i>34.1</i>	<i>7.03</i>	0.0071	8260D
	<i>Chloromethane</i>	<i>ND</i>	<i>17.1</i>	<i>4.43</i>	0.61	8260D
	<i>cis-1,2-Dichloroethene</i>	<i>ND</i>	<i>6.82</i>	<i>3.25</i>	0.12	8260D
	<i>Dibromomethane</i>	<i>ND</i>	<i>6.82</i>	<i>2.39</i>	0.025	8260D
	<i>Dichlorodifluoromethane</i>	<i>ND</i>	<i>34.1</i>	<i>1.95</i>	3.9	8260D
RPD = 131%	Ethylbenzene	17.6	J 6.82	2.05	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	<i>ND</i>	<i>6.82</i>	<i>2.33</i>	0.020	8260D
RPD = 108%	Isopropylbenzene	12.3	J 6.82	2.91	5.6	8260D
	<i>Methyl tert-butyl ether</i>	<i>ND</i>	<i>6.82</i>	<i>2.39</i>	0.40	8260D
	<i>Methylene Chloride</i>	<i>ND</i>	<i>34.1</i>	<i>6.82</i>	0.33	8260D
RPD = 98%	n-Butylbenzene	34.7	J 6.82	1.76	23	8260D
RPD = 114%	n-Propylbenzene	37.5	J 6.82	1.41	9.1	8260D
RPD = 143%	Naphthalene	194	J 34.1	34.0	0.038	8260D
RPD = 103%	p-Isopropyltoluene	13.8	J 6.82	1.39		8260D
RPD = 101%	sec-Butylbenzene	20.1	J 6.82	1.38	42	8260D
	<i>Tetrachloroethene</i>	<i>ND</i>	<i>6.82</i>	<i>2.22</i>	0.19	8260D
	<i>Toluene</i>	<i>ND</i>	<i>34.1</i>	<i>8.39</i>	6.7	8260D
RPD = 118%	Total Xylenes	111	J 20.5	3.41	1.5	8260D
	<i>trans-1,2-Dichloroethene</i>	<i>ND</i>	<i>6.82</i>	<i>3.41</i>	1.3	8260D
	<i>Trichloroethene</i>	<i>ND</i>	<i>6.82</i>	<i>1.36</i>	0.011	8260D
	<i>Vinyl chloride</i>	<i>ND</i>	<i>6.82</i>	<i>1.54</i>	0.00080	8260D
	All other VOCs	<i>ND</i>	varies	varies	varies	8260D
RPD = 26%	1-Methylnaphthalene	23.5	J 0.470	0.106	0.41	8270D-SIM
RPD = 31%	2-Methylnaphthalene	31.1	J 0.470	0.10	1.3	8270D-SIM
RPD = 29%	Acenaphthene	0.551	J 0.00705	0.00246	37	8270D-SIM
RPD = 19%	Benzo(a)anthracene	0.00234	J 0.00705	0.00203	0.70	8270D-SIM
RPD = 13%	Benzo(b)fluoranthene	0.00201	J 0.00705	0.00180	15	8270D-SIM
RPD = 21%	Fluoranthene	0.00858	J 0.00705	0.00267	590	8270D-SIM
RPD = 30%	Fluorene	1.23	J 0.00705	0.00241	36	8270D-SIM
RPD = 26%	Naphthalene	18.2	J 0.470	0.0959	0.038	8270D-SIM
RPD = 25%	Phenanthrene	0.398	J 0.00705	0.00271	39	8270D-SIM
RPD = 21%	Pyrene	0.00797	J 0.00705	0.00235	87	8270D-SIM
	All other PAHs	<i>ND</i>	varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	<i>ND</i>	0.0019	0.00027	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	<i>ND</i>	0.0019	0.00030	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	<i>ND</i>	0.0019	0.00021	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	<i>ND</i>	0.0019	0.00028	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	<i>ND</i>	0.0019	0.00034	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	<i>ND</i>	0.0019	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-butanedisulfonic acid (PFBS)	<i>ND</i>	0.00097	0.00013	N/A	PFAS by ID SOP
	Perfluoro-1-decanedisulfonic acid (PFDS)	<i>ND</i>	0.00097	0.00022	N/A	PFAS by ID SOP
RPD = 56%	Perfluoro-1-heptanedisulfonic acid (PFHpS)	0.00035	J 0.00097	0.00017	N/A	PFAS by ID SOP
RPD = 133%	Perfluoro-1-nonanedisulfonic acid (PFNS)	0.00034	J 0.00097	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	<i>ND</i>	0.00097	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	<i>ND</i>	0.00097	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	<i>ND</i>	0.00097	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	<i>ND</i>	0.00097	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	<i>ND</i>	0.00097	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	<i>ND</i>	0.00097	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	<i>ND</i>	0.00097	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	<i>ND</i>	0.00097	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	<i>ND</i>	0.00097	0.00021	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	<i>ND</i>	0.00097	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	<i>ND</i>	0.00097	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	<i>ND</i>	0.00097	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	<i>ND</i>	0.00097	0.00018	N/A	PFAS by ID SOP
RPD = 92%	Perfluorohexanesulfonic acid (PFHxS)	0.0028	J 0.00097	0.00017	N/A	PFAS by ID SOP
RPD = 23%	Perfluorooctanesulfonic acid (PFOS)	0.19	J 0.0048	0.0017	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB6-2 PID = 137 ppm Depth = 2.5 - 5 ft bg	GRO	28.8	J	31.4	11.9	300	AK101	
	DRO	945	J	604	262	250	AK102	
	RRO	6040	J	604	201	10000	AK103	
	<i>1,1-Dichloroethane</i>	ND		2.59	0.696	0.092	8260D	
	<i>1,1-Dichloroethene</i>	ND		2.59	0.918	1.2	8260D	
	<i>1,1,1,2-Tetrachloroethane</i>	ND		2.59	0.765	0.022	8260D	
	<i>1,1,2-Trichloroethane</i>	ND		2.59	1.10	0.0014	8260D	
	<i>1,1,2,2-Tetrachloroethane</i>	ND		2.59	0.597	0.0030	8260D	
	<i>1,2-Dibromoethane</i>	ND		2.59	0.647	0.00024	8260D	
	<i>1,2-Dichlorobenzene</i>	ND		2.59	1.10	2.4	8260D	
	<i>1,2-Dichloroethane</i>	ND		2.59	1.16	0.0055	8260D	
	<i>1,2-Dichloropropane</i>	ND		2.59	0.425	0.030	8260D	
	<i>1,2,3-Trichlorobenzene</i>	ND		2.59	0.795	0.15	8260D	
	<i>1,2,3-Trichloropropane</i>	ND		6.47	0.632	0.000031	8260D	
	1,2,3-Trimethylbenzene	7.65	J	2.59	0.745		8260D	
	<i>1,2,4-Trichlorobenzene</i>	ND		2.59	1.01	0.082	8260D	
	1,2,4-Trimethylbenzene	17	J	2.59	0.548	0.61	8260D	
	<i>1,3-Dichlorobenzene</i>	ND		2.59	1.55	2.3	8260D	
	1,3,5-Trimethylbenzene	4.89	J	2.59	0.691	0.66	8260D	
	<i>1,4-Dichlorobenzene</i>	ND		2.59	2.15	0.037	8260D	
	2-Butanone (MEK)	ND		25.9	12.1	15	8260D	
	4-Methyl-2-pentanone (MIBK)	ND		25.9	2.46	18	8260D	
	Acetone	ND		130	53.8	38	8260D	
	Benzene	ND		2.59	0.972	0.022	8260D	
	Bromobenzene	ND		2.59	0.711	0.36	8260D	
	Bromodichloromethane	ND		2.59	1.88	0.0043	8260D	
	Bromoform	ND		2.59	1.10	0.10	8260D	
	Bromomethane	ND		13.0	3.03	0.024	8260D	
	Carbon tetrachloride	ND		2.59	0.642	0.021	8260D	
	Chlorobenzene	ND		2.59	0.499	0.46	8260D	
	Chlorodibromomethane	ND		2.59	0.582	0.0027	8260D	
	Chloroform	ND		13.0	2.67	0.0071	8260D	
	Chloromethane	ND		6.47	1.68	0.61	8260D	
	<i>cis-1,2-Dichloroethene</i>	ND		2.59	1.23	0.12	8260D	
	Dibromomethane	ND		2.59	0.908	0.025	8260D	
	Dichlorodifluoromethane	ND		13.0	0.745	3.9	8260D	
	Ethylbenzene	1.26	J	2.59	0.775	0.13	8260D	
	<i>Hexachloro-1,3-butadiene</i>	ND		2.59	0.889	0.020	8260D	
	Isopropylbenzene	1.36	J	2.59	1.10	5.6	8260D	
	<i>Methyl tert-butyl ether</i>	ND		2.59	0.908	0.40	8260D	
	<i>Methylene Chloride</i>	ND		13.0	2.59	0.33	8260D	
	n-Butylbenzene	2.22	J	2.59	0.666	23	8260D	
	n-Propylbenzene	3.15	J	2.59	0.533	9.1	8260D	
	<i>Naphthalene</i>	ND	J	13.00	12.9	0.038	8260D	
	p-Isopropyltoluene	0.859	J	2.59	0.528		8260D	
	sec-Butylbenzene	1.69	J	2.59	0.523	42	8260D	
	<i>Tetrachloroethene</i>	ND		2.59	0.844	0.19	8260D	
	Toluene	ND		13.0	3.19	6.7	8260D	
	Total Xylenes	11.9	J	7.80	1.30	1.5	8260D	
	<i>trans-1,2-Dichloroethene</i>	ND		2.59	1.30	1.3	8260D	
	<i>Trichloroethene</i>	ND		2.59	0.518	0.011	8260D	
	<i>Vinyl chloride</i>	ND		2.59	0.587	0.00080	8260D	
	All other VOCs	ND		varies	varies	varies	8260D	
	1-Methylnaphthalene	9.82		0.0604	0.0136	0.41	8270D-SIM	
	2-Methylnaphthalene	14.9		0.604	0.129	1.3	8270D-SIM	
	Acenaphthene	0.176		0.0181	0.00631	37	8270D-SIM	
	Fluorene	0.435		0.0181	0.00619	36	8270D-SIM	
	Naphthalene	10.9	J	0.0604	0.0123	0.038	8270D-SIM	
	Phenanthrene	0.117		0.0181	0.00698	39	8270D-SIM	
	All other PAHs	ND		varies	varies	varies	8270D-SIM	
	SB7-1 PID = 210 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0020	0.00028	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.00031	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0020	0.00022	N/A	PFAS by ID SOP
		N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0020	0.00030	N/A	PFAS by ID SOP
		N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
		N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0020	0.00040	N/A	PFAS by ID SOP
		Perfluoro-1-butananesulfonic acid (PFBS)	ND		0.0010	0.00013	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.0010	0.00023	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.0010	0.00023	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND		0.0010	0.00043	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND		0.0010	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.0010	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND		0.0010	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND		0.0010	0.00022	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.0010	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		0.00045	J	0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.0051	J	0.0010	0.00036	0.0030	PFAS by ID SOP	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB7-2 PID = 2 ppm Depth = 2.5 - 5 ft bg	GRO	ND	J	2.84	1.08	300	AK101
	DRO	ND		228	98.5	250	AK102
	RRO	583	J	228	75.8	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	ND		0.0323	0.00956	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		0.0323	0.0137	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		0.0323	0.00745	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		0.0323	0.00807	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		0.0323	0.0146	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		0.0323	0.00530	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.0807	0.00788	0.000031	8260D
	1,2,3-Trimethylbenzene	0.0125	J	0.0323	0.00926		8260D
	1,2,4-Trimethylbenzene	0.0387	J	0.0323	0.00682	0.61	8260D
	Benzene	ND		0.0323	0.0121	0.022	8260D
	<i>Bromodichloromethane</i>	ND		0.0323	0.0234	0.0043	8260D
	<i>Bromomethane</i>	ND	J	0.161	0.0378	0.024	8260D
	Carbon tetrachloride	ND		0.0323	0.00801	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		0.0323	0.00723	0.0027	8260D
	<i>Chloroform</i>	ND		0.161	0.0333	0.0071	8260D
	<i>Dibromomethane</i>	ND		0.0323	0.0113	0.025	8260D
	Ethylbenzene	ND		0.0323	0.00969	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		0.0323	0.0110	0.020	8260D
	<i>Naphthalene</i>	ND	J	0.161	0.161	0.038	8260D
	Toluene	ND		0.161	0.0398	6.7	8260D
	Total Xylenes	0.0185	J	0.0969	0.0161	1.5	8260D
	<i>Trichloroethene</i>	ND		0.0323	0.00646	0.011	8260D
	<i>Vinyl chloride</i>	ND		0.0323	0.00730	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	Naphthalene	0.00599	J	0.0228	0.00464	0.038	8270D-SIM
	Pyrene	0.00244	J	0.00683	0.00228	87	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
SB8-1 PID = 2 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.00061	J	0.0019	0.00026	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0019	0.00029	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0019	0.00020	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	0.0079		0.0019	0.00027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0019	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-butananesulfonic acid (PFBS)	ND		0.00093	0.00012	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	0.00062	J	0.00093	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00093	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	0.00034	J	0.00093	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00093	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00093	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00027	J	0.00093	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00093	0.00013	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00093	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00093	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00093	0.00020	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00093	0.00015	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00093	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	0.00019	J	0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.00068	J	0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0040	J	0.00093	0.00033	0.0030	PFAS by ID SOP	
SB8-2 PID = 2 ppm Depth = 2.5 - 5 ft bg	GRO	ND	J	2.81	1.07	300	AK101
	DRO	ND		225	97.3	250	AK102
	RRO	ND		225	74.8	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	ND		0.0317	0.00939	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		0.0317	0.0134	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		0.0317	0.00732	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		0.0317	0.00793	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		0.0317	0.0143	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		0.0317	0.00520	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.0793	0.00774	0.000031	8260D
	Benzene	ND		0.0317	0.0119	0.022	8260D
	<i>Bromodichloromethane</i>	ND		0.0317	0.0230	0.0043	8260D
	<i>Bromomethane</i>	ND	J	0.159	0.0372	0.024	8260D
	Carbon tetrachloride	ND		0.0317	0.00787	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		0.0317	0.00710	0.0027	8260D
	<i>Chloroform</i>	ND		0.159	0.0327	0.0071	8260D
	<i>Dibromomethane</i>	ND		0.0317	0.0111	0.025	8260D
	Ethylbenzene	ND		0.0317	0.00951	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		0.0317	0.0108	0.020	8260D
	<i>Naphthalene</i>	ND	J	0.159	0.159	0.038	8260D
Toluene	ND		0.159	0.0391	6.7	8260D	
Total Xylenes	ND		0.0951	0.0159	1.5	8260D	
<i>Trichloroethene</i>	ND		0.0317	0.00634	0.011	8260D	
<i>Vinyl chloride</i>	ND		0.0317	0.00717	0.00080	8260D	
All other VOCs	ND		varies	varies	varies	8260D	
All PAHs	ND		varies	varies	varies	8270D-SIM	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB24-1 PID = 137 ppm Depth = 0 - 2.5 ft bg	GRO	981	J	27.2	10.3	300	AK101
	DRO	ND		226	98.0	250	AK102
	RRO	273	J	226	75.4	10000	AK103
	<i>1,1-Dichloroethane</i>	ND		<u>0.642</u>	<u>0.172</u>	0.092	8260D
	<i>1,1,1,2-Tetrachloroethane</i>	ND		<u>0.642</u>	<u>0.190</u>	0.022	8260D
	1,1,2-Trichloroethane	3.02	J	0.642	0.274	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		<u>0.642</u>	<u>0.149</u>	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		<u>0.642</u>	<u>0.161</u>	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		<u>0.642</u>	<u>0.289</u>	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		<u>0.642</u>	<u>0.105</u>	0.030	8260D
	<i>1,2,3-Trichlorobenzene</i>	ND		<u>0.642</u>	<u>0.197</u>	0.15	8260D
	<i>1,2,3-Trichloropropane</i>	ND		<u>1.61</u>	<u>0.157</u>	0.000031	8260D
	<i>1,2,4-Trichlorobenzene</i>	ND		<u>0.642</u>	<u>0.249</u>	0.082	8260D
	1,2,4-Trimethylbenzene	0.668	J	0.642	0.136	0.61	8260D
	1,3,5-Trimethylbenzene	0.218	J	0.642	0.171	0.66	8260D
	<i>1,4-Dichlorobenzene</i>	ND		<u>0.642</u>	<u>0.533</u>	0.037	8260D
	<i>Benzene</i>	ND		<u>0.642</u>	<u>0.242</u>	0.022	8260D
	<i>Bromobenzene</i>	ND		<u>0.642</u>	0.177	0.36	8260D
	<i>Bromodichloromethane</i>	ND		<u>0.642</u>	<u>0.466</u>	0.0043	8260D
	<i>Bromoform</i>	ND		<u>0.642</u>	<u>0.272</u>	0.10	8260D
	<i>Bromomethane</i>	ND	J	<u>3.21</u>	<u>0.752</u>	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		<u>0.642</u>	<u>0.159</u>	0.021	8260D
	<i>Chlorobenzene</i>	ND		<u>0.642</u>	0.123	0.46	8260D
	<i>Chlorodibromomethane</i>	ND		<u>0.642</u>	<u>0.144</u>	0.0027	8260D
	<i>Chloroform</i>	ND		<u>3.21</u>	<u>0.662</u>	0.0071	8260D
	<i>Chloromethane</i>	ND		<u>1.61</u>	0.418	0.61	8260D
	<i>cis-1,2-Dichloroethene</i>	ND		<u>0.642</u>	<u>0.306</u>	0.12	8260D
	<i>Dibromomethane</i>	ND		<u>0.642</u>	<u>0.225</u>	0.025	8260D
	<i>Ethylbenzene</i>	ND		<u>0.642</u>	<u>0.193</u>	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		<u>0.642</u>	<u>0.220</u>	0.020	8260D
	<i>Methyl tert-butyl ether</i>	ND		<u>0.642</u>	0.225	0.40	8260D
	<i>Methylene Chloride</i>	ND		<u>3.21</u>	<u>0.642</u>	0.33	8260D
	<i>Naphthalene</i>	ND	J	<u>3.21</u>	<u>3.20</u>	0.038	8260D
	<i>Tetrachloroethene</i>	ND		<u>0.642</u>	<u>0.209</u>	0.19	8260D
	Toluene	ND		3.21	0.790	6.7	8260D
	Total Xylenes	1.36	J	1.93	0.321	1.5	8260D
	Trichloroethene	0.231	J	0.642	0.128	0.011	8260D
	<i>Vinyl chloride</i>	ND		<u>0.642</u>	<u>0.145</u>	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	1-Methylnaphthalene	0.0137	J	0.0226	0.00508	0.41	8270D-SIM
	2-Methylnaphthalene	0.0188	J	0.0226	0.00483	1.3	8270D-SIM
	Benzo(a)anthracene	0.00217	J	0.00679	0.00196	0.70	8270D-SIM
	Benzo(b)fluoranthene	0.00217	J	0.00679	0.00173	15	8270D-SIM
	Fluoranthene	0.00650	J	0.00679	0.00257	590	8270D-SIM
	Naphthalene	0.0130	J	0.0226	0.00462	0.038	8270D-SIM
	Phenanthrene	0.00662	J	0.00679	0.00261	39	8270D-SIM
	Pyrene	0.00611	J	0.00679	0.00226	87	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0020	0.00028	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0020	0.00031	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0020	0.00022	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0020	0.00029	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0020	0.00040	N/A	PFAS by ID SOP	
Perfluoro-1-butanedisulfonic acid (PFBS)	ND		0.0010	0.00013	N/A	PFAS by ID SOP	
Perfluoro-1-decanedisulfonic acid (PFDS)	ND		0.0010	0.00023	N/A	PFAS by ID SOP	
Perfluoro-1-heptanedisulfonic acid (PFHpS)	ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-1-nonanedisulfonic acid (PFNS)	ND		0.0010	0.00022	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)	ND		0.0010	0.00042	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)	0.00023	J	0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0010	0.00014	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND		0.0010	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	ND		0.0010	0.00021	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0010	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.00046	J	0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0028	J	0.0010	0.00036	0.0030	PFAS by ID SOP	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB25-1 PID = 259 ppm Depth = 0 - 2.5 ft bg	GRO	228	J	174	66.3	300	AK101
	DRO	497		267	116	250	AK102
	RRO	864	J	267	89.0	10000	AK103
	<i>1,1-Dichloroethane</i>	ND		<u>0.872</u>	<u>0.234</u>	0.092	8260D
	<i>1,1,1,2-Tetrachloroethane</i>	ND		<u>0.872</u>	<u>0.258</u>	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		<u>0.872</u>	<u>0.371</u>	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		<u>0.872</u>	<u>0.202</u>	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		<u>0.872</u>	<u>0.218</u>	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		<u>0.872</u>	<u>0.392</u>	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		<u>0.872</u>	<u>0.143</u>	0.030	8260D
	<i>1,2,3-Trichlorobenzene</i>	ND		<u>0.872</u>	<u>0.267</u>	0.15	8260D
	<i>1,2,3-Trichloropropane</i>	ND		<u>2.18</u>	<u>0.213</u>	0.000031	8260D
	<i>1,2,4-Trichlorobenzene</i>	ND		<u>0.872</u>	<u>0.338</u>	0.082	8260D
	1,2,4-Trimethylbenzene	0.309	J	0.872	0.185	0.61	8260D
	<i>1,3,5-Trimethylbenzene</i>	ND		<u>0.872</u>	0.232	0.66	8260D
	<i>1,4-Dichlorobenzene</i>	ND		<u>0.872</u>	<u>0.724</u>	0.037	8260D
	Acetone	ND		43.6	18.1	38	8260D
	Benzene	0.523	J	0.872	0.328	0.022	8260D
	<i>Bromobenzene</i>	ND		<u>0.872</u>	0.241	0.36	8260D
	<i>Bromodichloromethane</i>	ND		<u>0.872</u>	<u>0.633</u>	0.0043	8260D
	<i>Bromoform</i>	ND		<u>0.872</u>	<u>0.370</u>	0.10	8260D
	<i>Bromomethane</i>	ND		<u>4.36</u>	<u>1.02</u>	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		<u>0.872</u>	<u>0.216</u>	0.021	8260D
	<i>Chlorobenzene</i>	ND		<u>0.872</u>	0.167	0.46	8260D
	<i>Chlorodibromomethane</i>	ND		<u>0.872</u>	<u>0.195</u>	0.0027	8260D
	<i>Chloroform</i>	ND		<u>4.36</u>	<u>0.898</u>	0.0071	8260D
	<i>Chloromethane</i>	ND		2.18	0.567	0.61	8260D
	<i>cis-1,2-Dichloroethene</i>	ND		<u>0.872</u>	<u>0.415</u>	0.12	8260D
	<i>Dibromomethane</i>	ND		<u>0.872</u>	<u>0.305</u>	0.025	8260D
	<i>Dichlorodifluoromethane</i>	ND		4.36	0.249	3.9	8260D
	<i>Ethylbenzene</i>	ND		<u>0.872</u>	<u>0.262</u>	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		<u>0.872</u>	<u>0.298</u>	0.020	8260D
	<i>Methyl tert-butyl ether</i>	ND		<u>0.872</u>	0.305	0.40	8260D
	<i>Methylene Chloride</i>	ND		<u>4.36</u>	<u>0.872</u>	0.33	8260D
	<i>Naphthalene</i>	ND	J	<u>4.36</u>	<u>4.34</u>	0.038	8260D
	<i>Tetrachloroethene</i>	ND		<u>0.872</u>	<u>0.284</u>	0.19	8260D
	Toluene	ND		4.36	1.07	6.7	8260D
	Total Xylenes	1.42	J	2.62	0.436	1.5	8260D
	<i>Trichloroethene</i>	ND		<u>0.872</u>	<u>0.174</u>	0.011	8260D
	<i>Vinyl chloride</i>	ND		<u>0.872</u>	<u>0.197</u>	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	1-Methylnaphthalene	0.0223	J	0.0267	0.00600	0.41	8270D-SIM
	2-Methylnaphthalene	0.0129	J	0.0267	0.00570	1.3	8270D-SIM
	Benzo(a)anthracene	0.0200		0.00802	0.00231	0.70	8270D-SIM
	Benzo(a)pyrene	0.0122		0.00802	0.00239	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.00960		0.00802	0.00204	15	8270D-SIM
	Chrysene	0.0303		0.00802	0.00310	600	8270D-SIM
Fluoranthene	0.0155		0.00802	0.00303	590	8270D-SIM	
Naphthalene	0.00596	J	0.0267	0.00545	0.038	8270D-SIM	
Pyrene	0.0557		0.00802	0.00267	87	8270D-SIM	
All other PAHs	ND		varies	varies	varies	8270D-SIM	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0019	0.00025	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0019	0.00028	N/A	PFAS by ID SOP	
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0019	0.00020	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0019	0.00027	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0019	0.00037	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)	ND		0.00093	0.00012	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00093	0.00021	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00093	0.00020	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-butanefluoronic acid (PFBA)	ND		0.00093	0.00039	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)	ND		0.00093	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00093	0.00013	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND		0.00093	0.00014	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	ND		0.00093	0.00020	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00093	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00093	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND	J	0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.00055	J	0.00093	0.00033	0.0030	PFAS by ID SOP	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB26-1 PID = 13 ppm Depth = 0-2.5 ft bg	GRO	8.85	J	2.83	1.07	300	AK101
	DRO	243		226	98.0	250	AK102
	RRO	81.0	J	226	75.4	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	ND		<u>0.0321</u>	0.00951	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		<u>0.0321</u>	<u>0.0136</u>	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		<u>0.0321</u>	<u>0.00741</u>	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		<u>0.0321</u>	<u>0.00803</u>	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		<u>0.0321</u>	<u>0.0145</u>	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		<u>0.0321</u>	0.00527	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	ND		<u>0.0803</u>	<u>0.00784</u>	0.000031	8260D
	1,2,3-Trimethylbenzene	0.0778	J	0.0321	0.00921		8260D
	1,2,4-Trimethylbenzene	0.159	J	0.0321	0.00678	0.61	8260D
	1,3,5-Trimethylbenzene	0.0167	J	0.0321	0.00854	0.66	8260D
	Benzene	0.0435		0.0321	0.0120	0.022	8260D
	<i>Bromodichloromethane</i>	ND		<u>0.0321</u>	<u>0.0233</u>	0.0043	8260D
	<i>Bromomethane</i>	ND		<u>0.161</u>	<u>0.0376</u>	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		<u>0.0321</u>	0.00796	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		<u>0.0321</u>	<u>0.00719</u>	0.0027	8260D
	<i>Chloroform</i>	ND		<u>0.161</u>	<u>0.0331</u>	0.0071	8260D
	<i>Dibromomethane</i>	ND		<u>0.0321</u>	0.0112	0.025	8260D
	Ethylbenzene	0.0687	J	0.0321	0.00963	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		<u>0.0321</u>	0.0110	0.020	8260D
	Isopropylbenzene	0.0480	J	0.0321	0.0136	5.6	8260D
	n-Propylbenzene	0.0195	J	0.0321	0.00662	9.1	8260D
	<i>Naphthalene</i>	ND	J	<u>0.161</u>	<u>0.161</u>	0.038	8260D
	p-Isopropyltoluene	0.00967	J	0.0321	0.00655		8260D
	Toluene	ND		0.161	0.0396	6.7	8260D
	Total Xylenes	0.258	J	0.0963	0.0161	1.5	8260D
	<i>Trichloroethene</i>	ND		<u>0.0321</u>	0.00642	0.011	8260D
	<i>Vinyl chloride</i>	ND		<u>0.0321</u>	<u>0.00726</u>	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	1-Methylnaphthalene	0.0304		0.0226	0.00508	0.41	8270D-SIM
	2-Methylnaphthalene	0.0363		0.0226	0.00483	1.3	8270D-SIM
	Acenaphthene	0.00584	J	0.00679	0.00236	37	8270D-SIM
	Fluorene	0.0137		0.00679	0.00232	36	8270D-SIM
	Naphthalene	0.0109	J	0.0226	0.00462	0.038	8270D-SIM
	Phenanthrene	0.0138		0.00679	0.00261	39	8270D-SIM
	Pyrene	0.00479	J	0.00679	0.00226	87	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0021	0.00029	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0021	0.00032	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0021	0.00023	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0021	0.00030	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0021	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00022	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	J	0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0011	J	0.0011	0.00037	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB27-1	GRO	ND	J	3.52	1.34	300	AK101
PID = 2 ppm	DRO	149	J	282	122	250	AK102
Depth = 0 - 2.5 ft bg	RRO	1940	J	282	93.9	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	ND		<i>0.0474</i>	0.0140	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		<i>0.0474</i>	<i>0.0201</i>	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		<i>0.0474</i>	<i>0.0109</i>	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		<i>0.0474</i>	<i>0.0118</i>	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		<i>0.0474</i>	<i>0.0214</i>	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		<i>0.0474</i>	0.00777	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	ND		<i>0.118</i>	<i>0.0116</i>	0.000031	8260D
	<i>1,4-Dichlorobenzene</i>	ND		<i>0.0474</i>	<i>0.0394</i>	0.037	8260D
	<i>Benzene</i>	ND		<i>0.0474</i>	0.0178	0.022	8260D
	<i>Bromodichloromethane</i>	ND		<i>0.0474</i>	<i>0.0343</i>	0.0043	8260D
	<i>Bromomethane</i>	ND	J	<i>0.237</i>	<i>0.0555</i>	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		<i>0.0474</i>	0.0117	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		<i>0.0474</i>	<i>0.0106</i>	0.0027	8260D
	<i>Chloroform</i>	ND		<i>0.237</i>	<i>0.0489</i>	0.0071	8260D
	<i>Dibromomethane</i>	ND		<i>0.0474</i>	0.0166	0.025	8260D
	<i>Ethylbenzene</i>	ND		0.0474	0.0142	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		<i>0.0474</i>	0.0162	0.020	8260D
	<i>Naphthalene</i>	ND	J	<i>0.237</i>	<i>0.237</i>	0.038	8260D
	<i>Toluene</i>	ND		0.237	0.0583	6.7	8260D
	<i>Total Xylenes</i>	ND		0.142	0.0237	1.5	8260D
	<i>Trichloroethene</i>	ND		<i>0.0474</i>	0.00947	0.011	8260D
	<i>Vinyl chloride</i>	ND		<i>0.0474</i>	<i>0.0107</i>	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	2-Methylnaphthalene	0.00686	J	0.0282	0.00602	1.3	8270D-SIM
	Benzo(a)anthracene	0.0130		0.00845	0.00244	0.70	8270D-SIM
	Benzo(a)pyrene	0.0137		0.00845	0.00252	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.0154		0.00845	0.00216	15	8270D-SIM
	Benzo(g,h,i)perylene	0.0151		0.00845	0.00249	2300	8270D-SIM
	Benzo(k)fluoranthene	0.00403	J	0.00845	0.00303	150	8270D-SIM
	Chrysene	0.0107		0.00845	0.00327	600	8270D-SIM
	Fluoranthene	0.0137		0.00845	0.00320	590	8270D-SIM
	Fluorene	0.0102		0.00845	0.00289	36	8270D-SIM
	Indeno(1,2,3-cd)pyrene	0.0140		0.00845	0.00255	15	8270D-SIM
	Phenanthrene	0.0147		0.00845	0.00326	39	8270D-SIM
	Pyrene	0.0159		0.00845	0.00282	87	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0037	0.00050	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0037	0.00056	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0037	0.00040	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0037	0.00053	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0037	0.00064	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0037	0.00072	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00047	J	0.0018	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0018	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00049	J	0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0018	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0012	J	0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0018	0.00076	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0018	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00036	J	0.0018	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00049	J	0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0018	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00040	J	0.0018	0.00039	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00029	J	0.0018	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0018	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0091	J	0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.067	J	0.0018	0.00065	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB28-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	J	3.26	1.24	300	AK101
	DRO	114	J	248	107	250	AK102
	RRO	1360	J	248	82.5	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	ND		0.0404	0.0120	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		0.0404	0.0172	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		0.0404	0.00934	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		0.0404	0.0101	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		0.0404	0.0182	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		0.0404	0.00663	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.101	0.00986	0.000031	8260D
	<i>1,4-Dichlorobenzene</i>	ND		0.0404	0.0336	0.037	8260D
	<i>Benzene</i>	ND		0.0404	0.0151	0.022	8260D
	<i>Bromodichloromethane</i>	ND		0.0404	0.0294	0.0043	8260D
	<i>Bromomethane</i>	ND	J	0.202	0.0473	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		0.0404	0.0100	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		0.0404	0.00906	0.0027	8260D
	<i>Chloroform</i>	ND		0.202	0.0416	0.0071	8260D
	<i>Dibromomethane</i>	ND		0.0404	0.0142	0.025	8260D
	<i>Ethylbenzene</i>	ND		0.0404	0.0121	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		0.0404	0.0138	0.020	8260D
	<i>n-Propylbenzene</i>	0.0573	J	0.0404	0.00833	9.1	8260D
	<i>Naphthalene</i>	ND	J	0.202	0.201	0.038	8260D
	<i>Toluene</i>	ND		0.202	0.0497	6.7	8260D
	<i>Total Xylenes</i>	0.0316	J	0.121	0.0202	1.5	8260D
	<i>Trichloroethene</i>	ND		0.0404	0.00809	0.011	8260D
	<i>Vinyl chloride</i>	ND		0.0404	0.00913	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	Benzo(a)anthracene	0.00783		0.00743	0.00214	0.70	8270D-SIM
	Benzo(a)pyrene	0.00588	J	0.00743	0.00222	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.0124		0.00743	0.00190	15	8270D-SIM
	Benzo(k)fluoranthene	0.00323	J	0.00743	0.00266	150	8270D-SIM
	Chrysene	0.00808		0.00743	0.00287	600	8270D-SIM
	Fluoranthene	0.0197		0.00743	0.00281	590	8270D-SIM
	Fluorene	0.0133		0.00743	0.00254	36	8270D-SIM
	Indeno(1,2,3-cd)pyrene	0.00763		0.00743	0.00224	15	8270D-SIM
	Phenanthrene	0.0152		0.00743	0.00286	39	8270D-SIM
	Pyrene	0.0228		0.00743	0.00248	87	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0023	0.00031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0023	0.00035	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0023	0.00024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0023	0.00033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0023	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0023	0.00045	N/A	PFAS by ID SOP
	Perfluoro-1-butanedisulfonic acid (PFBS)	ND		0.0011	0.00015	N/A	PFAS by ID SOP
	Perfluoro-1-decanedisulfonic acid (PFDS)	ND		0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanedisulfonic acid (PFHpS)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
Perfluoro-1-nonanedisulfonic acid (PFNS)	ND		0.0011	0.00025	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00022	J	0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00047	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00024	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.00074	J	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0021	J	0.0011	0.00040	0.0030	PFAS by ID SOP	
SB169-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0022	0.00031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0022	0.00034	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0022	0.00024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0022	0.00032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0022	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-butanedisulfonic acid (PFBS)	ND		0.0011	0.00015	N/A	PFAS by ID SOP
	Perfluoro-1-decanedisulfonic acid (PFDS)	ND		0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanedisulfonic acid (PFHpS)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-nonanedisulfonic acid (PFNS)	ND		0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00039	J	0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00060	J	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00024	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.00030	J	0.0011	0.00021	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.0010	J	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.012	J	0.0011	0.00040	0.0030	PFAS by ID SOP	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB170-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0019	0.00026	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0019	0.00029	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0019	0.00021	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0019	0.00028	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0019	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.00095	0.00012	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00095	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00095	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00095	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00095	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00095	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00095	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00095	0.00020	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00095	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00095	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	J	0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.00097	J	0.00095	0.00034	0.0030	PFAS by ID SOP
	SB171-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0024	0.00034	N/A
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND		0.0024	0.00037	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	J	0.0024	0.00027	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	J	0.0024	0.00035	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.0024	0.00043	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.0024	0.00048	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoric acid (PFBS)		ND		0.0012	0.00016	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.0012	0.00027	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.0012	0.00021	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.0012	0.00027	N/A	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.0012	0.00022	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.0012	0.00023	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND		0.0012	0.00051	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND		0.0012	0.00019	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.0012	0.00021	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.0012	0.00017	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.0012	0.00023	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.0012	0.00018	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND		0.0012	0.00026	0.0017	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.0012	0.00019	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.0012	0.00023	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTrDA)		ND		0.0012	0.00021	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.0012	0.00023	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.00047	J	0.0012	0.00022	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.0049	J	0.0012	0.00044	0.0030	PFAS by ID SOP
SB172-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0027	0.00037	N/A
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0027	0.00041	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0027	0.00029	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0027	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0027	0.00047	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0027	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	0.00032	J	0.0014	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0014	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0014	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00028	J	0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0014	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00023	J	0.0014	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0014	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00027	J	0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0014	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00031	J	0.0014	0.00029	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00025	J	0.0014	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0014	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.00033	J	0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0018	J	0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.023	J	0.0014	0.00048	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB173-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0019	0.00026	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0019	0.00029	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0019	0.00021	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0019	0.00028	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0019	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.00095	0.00012	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00095	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00095	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00095	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00095	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00095	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00095	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00095	0.00020	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00095	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00095	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00095	0.00018	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00032	J	0.00095	0.00017	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0032	J	0.00095	0.00034	0.0030	PFAS by ID SOP
	SB174-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0022	0.00031	N/A
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND		0.0022	0.00034	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND		0.0022	0.00024	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.0022	0.00032	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.0022	0.00039	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.0022	0.00044	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoric acid (PFBS)		ND		0.0011	0.00015	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.0011	0.00025	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.0011	0.00020	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.0011	0.00025	N/A	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.0011	0.00020	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.0011	0.00021	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND		0.0011	0.00046	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		0.00031	J	0.0011	0.00018	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.0011	0.00020	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		0.00033	J	0.0011	0.00016	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		0.00029	J	0.0011	0.00021	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		0.00042	J	0.0011	0.00017	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		0.00044	J	0.0011	0.00024	0.0017	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		0.00031	J	0.0011	0.00018	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.0011	0.00021	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTrDA)		ND		0.0011	0.00019	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		0.00030	J	0.0011	0.00021	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.0018	J	0.0011	0.00020	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.012	J	0.0011	0.00040	0.0030	PFAS by ID SOP
SB175-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0064	0.00088	N/A
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0064	0.00099	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0064	0.00070	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0064	0.00093	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0064	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0064	0.0013	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	0.00048	J	0.0032	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0032	0.00072	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0032	0.00056	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0032	0.00071	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0032	0.00057	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0032	0.00060	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0032	0.0013	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0032	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0032	0.00057	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0032	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0032	0.00059	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0032	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0032	0.00068	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00053	J	0.0032	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0032	0.00061	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0032	0.00055	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0032	0.00059	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0023	J	0.0032	0.00057	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0014	J	0.0032	0.0011	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB176-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0027	0.00037	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0027	0.00041	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0027	0.00029	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0027	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0027	0.00047	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0027	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0013	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0013	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00028	J	0.0013	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0013	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0013	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00033	J	0.0013	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0013	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00024	J	0.0013	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0013	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00023	J	0.0013	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0013	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00030	J	0.0013	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00048	J	0.0013	0.00029	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0013	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0013	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	0.00026	J	0.0013	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.00050	J	0.0013	0.00025	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0039	J	0.0013	0.00024	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.011	J	0.0013	0.00048	0.0030	PFAS by ID SOP
SB176-3 Duplicate of SB176-1	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0036	0.00049	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0036	0.00055	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0036	0.00039	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0036	0.00052	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0036	0.00062	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0036	0.00070	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0018	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0018	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0018	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0018	0.00074	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0018	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0018	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00035	J	0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0018	0.00027	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0018	0.00038	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00038	J	0.0018	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	RPD=105%	Perfluorohexanesulfonic acid (PFHxS)	0.0019	J	0.0018	0.00031	N/A
RPD=547%	Perfluorooctanesulfonic acid (PFOS)	0.0017	J	0.0018	0.00063	0.0030	PFAS by ID SOP
SB177-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0020	0.00027	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.00030	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0020	0.00021	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0020	0.00029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0020	0.00034	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0020	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.00099	0.00013	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00099	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00099	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00099	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00099	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00099	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00099	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00099	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00099	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00099	0.00021	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00099	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00099	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00099	0.00018	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	J	0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0068	J	0.00099	0.00035	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB178-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0018	0.00025	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0018	0.00028	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0018	0.00020	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0018	0.00027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0018	0.00036	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.00092	0.00012	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00092	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00092	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00092	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00092	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00092	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00092	0.00038	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	0.00019	J	0.00092	0.00015	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00092	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00092	0.00013	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00092	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	0.00014	J	0.00092	0.00014	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00092	0.00020	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00092	0.00015	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00092	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00092	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	0.00039	J	0.00092	0.00017	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00067	J	0.00092	0.00016	N/A	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0040	J	0.00092	0.00033	0.0030	PFAS by ID SOP	
	SB179-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		82.5	31.3	300	AK101
		DRO	ND		303	131	250	AK102
RRO		655	J	303	101	10000	AK103	
1,1,2-Trichloroethane		ND		0.00151	0.000643	0.0014	8260D	
1,2-Dibromoethane		ND		0.00151	0.000378	0.00024	8260D	
1,2,3-Trichloropropane		ND	J	0.00378	0.000369	0.000031	8260D	
2-Butanone (MEK)		0.0639	J	0.0151	0.00708	15	8260D	
Acetone		0.427	J	0.0757	0.0313	38	8260D	
Benzene		ND		0.00151	0.000567	0.022	8260D	
Chloroform		ND		0.00757	0.00156	0.0071	8260D	
Ethylbenzene		ND		0.00151	0.000454	0.13	8260D	
Toluene		0.00221	J	0.00757	0.00186	6.7	8260D	
Total Xylenes		ND		0.00454	0.000757	1.5	8260D	
Vinyl chloride		ND		0.00151	0.000342	0.00080	8260D	
All other VOCs		ND		varies	varies	varies	8260D	
Benzo(a)anthracene		0.00764	J	0.00908	0.00262	0.70	8270D-SIM	
Benzo(b)fluoranthene		0.00968		0.00908	0.00232	15	8270D-SIM	
Chrysene		0.00757	J	0.00908	0.00351	600	8270D-SIM	
Fluoranthene		0.0201		0.00908	0.00343	590	8270D-SIM	
Fluorene		0.00522	J	0.00908	0.00310	36	8270D-SIM	
Indeno(1,2,3-cd)pyrene		0.00707	J	0.00908	0.00274	15	8270D-SIM	
Phenanthrene		0.0154	J	0.00908	0.00350	39	8270D-SIM	
Pyrene		0.0151		0.00908	0.00303	87	8270D-SIM	
All other PAHs	ND		varies	varies	varies	8270D-SIM		
SB179-2 PID = 0 ppm Depth = 2.5 - 5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0025	0.00035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0025	0.00039	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0025	0.00027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0025	0.00036	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0025	0.00044	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0025	0.00050	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0013	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0013	0.00028	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0013	0.00022	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0013	0.00028	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0013	0.00022	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0013	0.00023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0013	0.00052	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0013	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0013	0.00022	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0013	0.00018	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0013	0.00023	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0013	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0013	0.00027	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0013	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0013	0.00024	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0013	0.00022	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0013	0.00023	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	J	0.0013	0.00022	N/A	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	J	0.0013	0.00045	0.0030	PFAS by ID SOP	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB179-4 Duplicate of SB179-2	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0028	0.00038	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0028	0.00043	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0028	0.00030	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0028	0.00040	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0028	0.00049	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0028	0.00055	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0014	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0014	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0014	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0014	0.00058	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0014	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0014	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0014	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0014	0.00030	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0014	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	J	0.0014	0.00025	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	ND	J	0.0014	0.00050	0.0030	PFAS by ID SOP	
SB182-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0023	0.00032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0023	0.00036	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0023	0.00025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0023	0.00034	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0023	0.00041	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0023	0.00046	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	0.00027	J	0.0012	0.00015	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0012	0.00026	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0012	0.00026	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00037	J	0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0012	0.00049	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00023	J	0.0012	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00027	J	0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00033	J	0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00045	J	0.0012	0.00025	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	0.00035	J	0.0012	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.00052	J	0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0050	J	0.0012	0.00021	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	0.017	J	0.0012	0.00042	0.0030	PFAS by ID SOP	
SB183-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0027	0.00037	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0027	0.00042	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0027	0.00029	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0027	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0027	0.00047	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0027	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	0.00042	J	0.0014	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0014	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0014	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00064	J	0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0014	0.00057	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00022	J	0.0014	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0014	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00072	J	0.0014	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0010	J	0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00066	J	0.0014	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00090	J	0.0014	0.00029	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00050	J	0.0014	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0014	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.00045	J	0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0084	J	0.0014	0.00024	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	0.018	J	0.0014	0.00048	0.0030	PFAS by ID SOP	

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB184-1	GRO	ND	99.1	37.7	300	AK101
PID = 0 ppm	DRO	ND	345	149	250	AK102
Depth = 0 - 2.5 ft bg	RRO	903	J 345	115	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND	<i>0.00172</i>	0.000733	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND	<i>0.00172</i>	<i>0.000431</i>	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND	J <i>0.00431</i>	<i>0.000421</i>	0.000031	8260D
	2-Butanone (MEK)	0.0445	J 0.0172	0.00807	15	8260D
	Acetone	0.286	J 0.0862	0.0357	38	8260D
	Benzene	ND	0.00172	0.000646	0.022	8260D
	<i>Chloroform</i>	ND	<i>0.00862</i>	0.00178	0.0071	8260D
	Ethylbenzene	ND	0.00172	0.000517	0.13	8260D
	Toluene	0.0355	J 0.00862	0.00212	6.7	8260D
	Total Xylenes	ND	0.00517	0.000862	1.5	8260D
	<i>Vinyl chloride</i>	ND	<i>0.00172</i>	0.000390	0.00080	8260D
	All other VOCs	ND	varies	varies	varies	8260D
	Acenaphthene	0.00920	J 0.0103	0.00360	37	8270D-SIM
	Anthracene	0.0386	0.0103	0.00396	390	8270D-SIM
	Benzo(a)anthracene	0.215	0.0103	0.00298	0.70	8270D-SIM
	Benzo(a)pyrene	0.253	0.0103	0.00309	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.434	0.0103	0.00264	15	8270D-SIM
	Benzo(g,h,i)perylene	0.245	0.0103	0.00305	2300	8270D-SIM
	Benzo(k)fluoranthene	0.148	0.0103	0.00371	150	8270D-SIM
	Chrysene	0.272	J 0.0103	0.00400	600	8270D-SIM
	Dibenz(a,h)anthracene	0.0414	0.0103	0.00296	1.5	8270D-SIM
	Fluoranthene	0.612	0.0103	0.00391	590	8270D-SIM
	Fluorene	0.0115	J 0.0103	0.00353	36	8270D-SIM
	Indeno(1,2,3-cd)pyrene	0.271	0.0103	0.00312	15	8270D-SIM
	Phenanthrene	0.246	J 0.0103	0.00398	39	8270D-SIM
	Pyrene	0.455	0.0103	0.00345	87	8270D-SIM
	All other PAHs	ND	varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J 0.0037	0.00051	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J 0.0037	0.00057	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J 0.0037	0.00041	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0037	0.00054	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0037	0.00065	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0037	0.00074	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00032	J 0.0019	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0019	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00047	J 0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0019	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00056	J 0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0019	0.00078	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00042	J 0.0019	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00060	J 0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00039	J 0.0019	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0011	J 0.0019	0.00040	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00042	J 0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0019	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0076	J 0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.026	J 0.0019	0.00067	0.0030	PFAS by ID SOP

TABLE 3
HOM4-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB185-1	GRO	ND	23.0	8.75	300	AK101
PID = 0 ppm	DRO	ND	230	99.7	250	AK102
Depth = 0 - 2.5 ft bg	RRO	275	J 230	76.7	10000	AK103
	<u>1,2-Dibromoethane</u>	<u>ND</u>	<u>0.00115</u>	<u>0.000288</u>	0.00024	8260D
	<u>1,2,3-Trichloropropane</u>	<u>ND</u>	<u>J 0.00288</u>	<u>0.000281</u>	0.000031	8260D
	Acetone	0.0807	J 0.0576	0.0238	38	8260D
	Benzene	ND	0.00115	0.000432	0.022	8260D
	Ethylbenzene	ND	0.00115	0.000345	0.13	8260D
	Toluene	0.00173	J 0.00576	0.00142	6.7	8260D
	Total Xylenes	ND	0.00345	0.000576	1.5	8260D
	Vinyl chloride	ND	0.00115	0.000260	0.00080	8260D
	All other VOCs	ND	varies	varies	varies	8260D
	Acenaphthene	0.0117	0.00691	0.00241	37	8270D-SIM
	Acenaphthylene	0.00366	J 0.00691	0.00249	18	8270D-SIM
	Anthracene	0.0721	0.00691	0.00265	390	8270D-SIM
	Benzo(a)anthracene	0.420	0.00691	0.00199	0.70	8270D-SIM
	Benzo(a)pyrene	0.438	0.00691	0.00206	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.698	0.00691	0.00176	15	8270D-SIM
	Benzo(g,h,i)perylene	0.373	0.00691	0.00204	2300	8270D-SIM
	Benzo(k)fluoranthene	0.248	0.00691	0.00248	150	8270D-SIM
	Chrysene	0.486	J 0.00691	0.00267	600	8270D-SIM
	Dibenz(a,h)anthracene	0.0683	0.00691	0.00198	1.5	8270D-SIM
	Fluoranthene	1.20	0.00691	0.00261	590	8270D-SIM
	Fluorene	0.0176	J 0.00691	0.00236	36	8270D-SIM
	Indeno(1,2,3-cd)pyrene	0.428	0.00691	0.00208	15	8270D-SIM
	Phenanthrene	0.468	J 0.00691	0.00266	39	8270D-SIM
	Pyrene	0.842	0.00691	0.00230	87	8270D-SIM
	All other PAHs	ND	varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J 0.0042	0.00058	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0070	0.0041	0.00062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J 0.0042	0.00046	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0042	0.00061	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0042	0.00074	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0042	0.00084	N/A	PFAS by ID SOP
	Perfluoro-1-butanedisulfonic acid (PFBS)	ND	0.0021	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-decanedisulfonic acid (PFDS)	ND	0.0021	0.00047	N/A	PFAS by ID SOP
	Perfluoro-1-heptanedisulfonic acid (PFHpS)	ND	0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-nonanedisulfonic acid (PFNS)	ND	0.0021	0.00047	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0021	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0021	0.00088	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0021	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0021	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0021	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0021	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00065	J 0.0021	0.00045	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0021	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0021	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0021	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0021	0.00039	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0033	J 0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0011	J 0.0021	0.00076	0.0030	PFAS by ID SOP

¹ Soil cleanup criteria for VOCs and PAHs are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Migration to Groundwater values (November 18, 2021) except for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenzo[a,h]anthracene, and indeno[1,2,3-cd]pyrene; which are obtained from the more stringent Under 40-inch zone (referring to annual precipitation) human health pathway (November 18, 2021).

Soil cleanup criteria for PFOS and PFOA are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021).

Soil cleanup criteria for GRO, and DRO are obtained from Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021). Soil cleanup criterion for RRO is obtained from the Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation) ingestion value.

Samples were analyzed for VOCs by EPA Method 8260D, for PAHs by EPA 8270D-SIM, for GRO by AK 101, for DRO by AK 102, and for RRO by AK 103.

Samples were analyzed for PFAS by Isotope Dilution pursuant to LC/MS/MS Quality Systems Manual (QSM) 5.3 Table B-15.

ADEC = Alaska Department of Environmental Conservation; PID = photoionization detector; ppm = parts per million; EPA = Environmental Protection Agency
DRO = diesel range organics; GRO = gasoline range organics; RRO; residual range organics; PAHs = polynuclear aromatic hydrocarbons;
VOCs = volatile organic compounds; RDL = reporting detection limit; MDL = method detection limit; ND = not detectable, AK = Alaska method;
mg/Kg = milligrams per kilogram; PFAS = per- and polyfluoroalkyl substances; bg = below grade; ft = feet

Bold = The concentration exceeds the applicable ADEC cleanup criterion.
Italics = The RDL and/or MDL exceeds the applicable ADEC cleanup criterion and the analyte is not detected.
Underline = The RDL and MDL exceed the applicable ADEC cleanup criterion and the analyte is not detected.

TABLE 4
HOM6-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB2-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	J	5.58	2.11	300	AK101	
	DRO	ND	J	441	191	250	AK102	
	RRO	512	J	441	147	10000	AK103	
		<u>1,1,1,2-Tetrachloroethane</u>	ND		<u>0.0883</u>	<u>0.0261</u>	0.022	8260D
		<u>1,1,2-Trichloroethane</u>	ND		<u>0.0883</u>	<u>0.0376</u>	0.0014	8260D
		<u>1,1,2,2-Tetrachloroethane</u>	ND		<u>0.0883</u>	<u>0.0204</u>	0.0030	8260D
		<u>1,2-Dibromoethane</u>	ND		<u>0.0883</u>	<u>0.0221</u>	0.00024	8260D
		<u>1,2-Dichloroethane</u>	ND		<u>0.0883</u>	<u>0.0396</u>	0.0055	8260D
		<u>1,2-Dichloropropane</u>	ND		<u>0.0883</u>	0.0145	0.030	8260D
		<u>1,2,3-Trichloropropane</u>	ND		<u>0.221</u>	<u>0.0215</u>	0.000031	8260D
		<u>1,2,4-Trichlorobenzene</u>	ND		<u>0.0883</u>	0.0342	0.082	8260D
		<u>1,4-Dichlorobenzene</u>	ND		<u>0.0883</u>	<u>0.0732</u>	0.037	8260D
		<u>Benzene</u>	ND		<u>0.0883</u>	<u>0.0331</u>	0.022	8260D
		<u>Bromodichloromethane</u>	ND		<u>0.0883</u>	<u>0.0641</u>	0.0043	8260D
		<u>Bromomethane</u>	ND	J	<u>0.440</u>	<u>0.103</u>	0.024	8260D
		<u>Carbon tetrachloride</u>	ND		<u>0.0883</u>	<u>0.0219</u>	0.021	8260D
		<u>Chlorodibromomethane</u>	ND		<u>0.0883</u>	<u>0.0198</u>	0.0027	8260D
		<u>Chloroform</u>	ND		<u>0.440</u>	<u>0.0910</u>	0.0071	8260D
		<u>Dibromomethane</u>	ND		<u>0.0883</u>	<u>0.0309</u>	0.025	8260D
		Ethylbenzene	ND		0.0883	0.0265	0.13	8260D
		<u>Hexachloro-1,3-butadiene</u>	ND		<u>0.0883</u>	<u>0.0302</u>	0.020	8260D
		<u>Methylene Chloride</u>	ND		<u>0.440</u>	0.0883	0.33	8260D
		<u>Naphthalene</u>	ND	J	<u>0.440</u>	<u>0.440</u>	0.038	8260D
		Toluene	ND		0.440	0.108	6.7	8260D
		Total Xylenes	ND		0.265	0.0440	1.5	8260D
		<u>Trichloroethene</u>	ND		<u>0.0883</u>	<u>0.0177</u>	0.011	8260D
		<u>Vinyl chloride</u>	ND		<u>0.0883</u>	<u>0.0199</u>	0.00080	8260D
		All other VOCs	ND		varies	varies	varies	8260D
		1-Methylnaphthalene	0.229		0.0441	0.00990	0.41	8270D-SIM
		2-Methylnaphthalene	0.595		0.0441	0.00941	1.3	8270D-SIM
		Fluorene	0.0206		0.0132	0.00452	36	8270D-SIM
		Naphthalene	0.317	J	0.0441	0.00900	0.038	8270D-SIM
		All other PAHs	ND		varies	varies	varies	8270D-SIM
SB2-3 Duplicate of SB2-1 RPD = 42%	GRO	ND	J	5.79	2.20	300	AK101	
	DRO	ND	J	449	194	250	AK102	
	RRO	785	J	449	149	10000	AK103	
		<u>1,1-Dichloroethane</u>	ND		<u>0.103</u>	0.0276	0.092	8260D
		<u>1,1,1,2-Tetrachloroethane</u>	ND		<u>0.103</u>	<u>0.0305</u>	0.022	8260D
		<u>1,1,2-Trichloroethane</u>	ND		<u>0.103</u>	<u>0.0438</u>	0.0014	8260D
		<u>1,1,2,2-Tetrachloroethane</u>	ND		<u>0.103</u>	<u>0.0238</u>	0.0030	8260D
		<u>1,2-Dibromoethane</u>	ND		<u>0.103</u>	<u>0.0258</u>	0.00024	8260D
		<u>1,2-Dichloroethane</u>	ND		<u>0.103</u>	<u>0.0464</u>	0.0055	8260D
		<u>1,2-Dichloropropane</u>	ND		<u>0.103</u>	0.0169	0.030	8260D
		<u>1,2,3-Trichloropropane</u>	ND		<u>0.258</u>	<u>0.0251</u>	0.000031	8260D
		<u>1,2,4-Trichlorobenzene</u>	ND		<u>0.103</u>	0.0399	0.082	8260D
		<u>1,4-Dichlorobenzene</u>	ND		<u>0.103</u>	<u>0.0856</u>	0.037	8260D
		<u>Benzene</u>	ND		<u>0.103</u>	<u>0.0386</u>	0.022	8260D
		<u>Bromodichloromethane</u>	ND		<u>0.103</u>	<u>0.0747</u>	0.0043	8260D
		<u>Bromoform</u>	ND		<u>0.103</u>	0.0438	0.10	8260D
		<u>Bromomethane</u>	ND	J	<u>0.515</u>	<u>0.120</u>	0.024	8260D
		<u>Carbon tetrachloride</u>	ND		<u>0.103</u>	<u>0.0256</u>	0.021	8260D
		<u>Chlorodibromomethane</u>	ND		<u>0.103</u>	<u>0.0231</u>	0.0027	8260D
		<u>Chloroform</u>	ND		<u>0.515</u>	<u>0.106</u>	0.0071	8260D
		<u>Dibromomethane</u>	ND		<u>0.103</u>	<u>0.0361</u>	0.025	8260D
		Ethylbenzene	ND		0.103	0.0309	0.13	8260D
		<u>Hexachloro-1,3-butadiene</u>	ND		<u>0.103</u>	<u>0.0351</u>	0.020	8260D
		<u>Methylene Chloride</u>	ND		<u>0.515</u>	0.103	0.33	8260D
		<u>Naphthalene</u>	ND	J	<u>0.515</u>	<u>0.512</u>	0.038	8260D
		Toluene	ND		0.515	0.127	6.7	8260D
		Total Xylenes	ND		0.309	0.0515	1.5	8260D
		<u>Trichloroethene</u>	ND		<u>0.103</u>	<u>0.0206</u>	0.011	8260D
		<u>Vinyl chloride</u>	ND		<u>0.103</u>	<u>0.0233</u>	0.00080	8260D
		All other VOCs	ND		varies	varies	varies	8260D
		<u>Naphthalene</u>	ND	J	<u>0.0449</u>	0.00916	0.038	8270D-SIM
		All other PAHs	ND		varies	varies	varies	8270D-SIM

TABLE 4
HOM6-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB3-1	GRO	ND	J	7.24	2.76	300	AK101
PID = 0 ppm	DRO	432	J	540	234	250	AK102
Depth = 0 - 2.5 ft bg	RRO	5080	J	540	180	10000	AK103
	<i>1,1-Dichloroethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0353</i>	<i>0.092</i>	8260D
	<i>1,1,1,2-Tetrachloroethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0390</i>	<i>0.022</i>	8260D
	<i>1,1,2-Trichloroethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0559</i>	<i>0.0014</i>	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0304</i>	<i>0.0030</i>	8260D
	<i>1,2-Dibromoethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0329</i>	<i>0.00024</i>	8260D
	<i>1,2-Dichloroethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0591</i>	<i>0.0055</i>	8260D
	<i>1,2-Dichloropropane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0216</i>	<i>0.030</i>	8260D
	<i>1,2,3-Trichloropropane</i>	<i>ND</i>		<i>0.329</i>	<i>0.0321</i>	<i>0.000031</i>	8260D
	<i>1,2,4-Trichlorobenzene</i>	<i>ND</i>		<i>0.132</i>	<i>0.0511</i>	<i>0.082</i>	8260D
	<i>1,4-Dichlorobenzene</i>	<i>ND</i>		<i>0.132</i>	<i>0.109</i>	<i>0.037</i>	8260D
	<i>Benzene</i>	<i>ND</i>		<i>0.132</i>	<i>0.0495</i>	<i>0.022</i>	8260D
	<i>Bromodichloromethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0954</i>	<i>0.0043</i>	8260D
	<i>Bromoform</i>	<i>ND</i>		<i>0.132</i>	<i>0.0559</i>	<i>0.10</i>	8260D
	<i>Bromomethane</i>	<i>ND</i>	J	<i>0.659</i>	<i>0.154</i>	<i>0.024</i>	8260D
	<i>Carbon tetrachloride</i>	<i>ND</i>		<i>0.132</i>	<i>0.0327</i>	<i>0.021</i>	8260D
	<i>Chlorodibromomethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0295</i>	<i>0.0027</i>	8260D
	<i>Chloroform</i>	<i>ND</i>		<i>0.659</i>	<i>0.136</i>	<i>0.0071</i>	8260D
	<i>cis-1,2-Dichloroethene</i>	<i>ND</i>		<i>0.132</i>	<i>0.0627</i>	<i>0.12</i>	8260D
	<i>Dibromomethane</i>	<i>ND</i>		<i>0.132</i>	<i>0.0459</i>	<i>0.025</i>	8260D
	<i>Ethylbenzene</i>	<i>ND</i>		<i>0.132</i>	<i>0.0395</i>	<i>0.13</i>	8260D
	<i>Hexachloro-1,3-butadiene</i>	<i>ND</i>		<i>0.132</i>	<i>0.0451</i>	<i>0.020</i>	8260D
	<i>Methylene Chloride</i>	<i>ND</i>		<i>0.659</i>	<i>0.132</i>	<i>0.33</i>	8260D
	<i>Naphthalene</i>	<i>ND</i>	J	<i>0.659</i>	<i>0.655</i>	<i>0.038</i>	8260D
	<i>Toluene</i>	<i>ND</i>		<i>0.659</i>	<i>0.162</i>	<i>6.7</i>	8260D
	<i>Total Xylenes</i>	<i>ND</i>		<i>0.395</i>	<i>0.0659</i>	<i>1.5</i>	8260D
	<i>Trichloroethene</i>	<i>ND</i>		<i>0.132</i>	<i>0.0263</i>	<i>0.011</i>	8260D
	<i>Vinyl chloride</i>	<i>ND</i>		<i>0.132</i>	<i>0.0298</i>	<i>0.00080</i>	8260D
	All other VOCs	<i>ND</i>		<i>varies</i>	<i>varies</i>	<i>varies</i>	8260D
	<i>Fluorene</i>	<i>0.0140</i>	J	<i>0.0162</i>	<i>0.00554</i>	<i>36</i>	8270D-SIM
	<i>Naphthalene</i>	<i>ND</i>	J	<i>0.0540</i>	<i>0.0110</i>	<i>0.038</i>	8270D-SIM
	All other PAHs	<i>ND</i>		<i>varies</i>	<i>varies</i>	<i>varies</i>	8270D-SIM

¹ Soil cleanup criteria for VOCs and PAHs are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Migration to Groundwater values (November 18, 2021) except for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenzo[a,h]anthracene, and indeno[1,2,3-cd]pyrene; which are obtained from the more stringent Under 40-inch zone (referring to annual precipitation) human health pathway (November 18, 2021).

Soil cleanup criteria for GRO, and DRO are obtained from Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021). Soil cleanup criterion for RRO is obtained from the Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation) ingestion value.

Samples were analyzed for VOCs by EPA Method 8260D, for PAHs by EPA 8270D-SIM, for GRO by AK 101, for DRO by AK 102, and for RRO by AK 103.

ADEC = Alaska Department of Environmental Conservation; PID = photoionization detector; ppm = parts per million; EPA = Environmental Protection Agency

DRO = diesel range organics; GRO = gasoline range organics; RRO; residual range organics; PAHs = polynuclear aromatic hydrocarbons;

VOCs = volatile organic compounds; RDL = reporting detection limit; MDL = method detection limit; ND = not detectable, AK = Alaska method;

mg/Kg = milligrams per kilogram; bg = below grade; ft = feet

Bold = The concentration exceeds the applicable ADEC cleanup criterion.

Italics = The RDL and/or MDL exceeds the applicable ADEC cleanup criterion and the analyte is not detected.

Underline = The RDL and MDL exceed the applicable ADEC cleanup criterion and the analyte is not detected.

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB34-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0048	0.00066	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0048	0.00073	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0048	0.00052	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0048	0.00069	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0048	0.00083	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0048	0.00095	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0024	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0024	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0024	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0024	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0024	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0024	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0024	0.0010	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0024	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0024	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0024	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0024	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0024	0.00036	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0024	0.00051	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0024	0.00038	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0024	0.00045	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0024	0.00041	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0024	0.00044	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0024	0.00042	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0019	J	0.0024	0.00085	0.0030	PFAS by ID SOP	
SB35-1 PID = 0 ppm Depth 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0061	0.00084	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0061	0.00093	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0061	0.00066	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0061	0.00088	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0061	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0061	0.0012	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0031	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0031	0.00068	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0031	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0031	0.00067	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0031	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0031	0.00057	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0031	0.0013	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0031	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0031	0.00054	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0031	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0031	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0031	0.00046	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0031	0.00065	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0031	0.00048	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0031	0.00058	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0031	0.00053	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0031	0.00056	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0031	0.00054	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0013	J	0.0031	0.0011	0.0030	PFAS by ID SOP	
SB36-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0080	0.0011	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0080	0.0012	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0080	0.00087	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0080	0.0012	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0080	0.0014	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0080	0.0016	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0040	0.00052	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0040	0.00089	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0040	0.00070	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0040	0.00088	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0040	0.00071	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0040	0.00075	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0040	0.0017	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0040	0.00063	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0040	0.00070	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0040	0.00057	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0040	0.00074	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0040	0.00060	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0040	0.00085	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0040	0.00064	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0040	0.00076	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0040	0.00069	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0040	0.00074	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0040	0.00071	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0040	0.0014	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB37-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0044	0.00061	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0039	0.00060	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0044	0.00048	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0044	0.00064	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0044	0.00077	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0044	0.00088	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0022	0.00029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0022	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0022	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0022	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0022	0.00092	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0022	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00042	J	0.0022	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00058	J	0.0022	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0022	0.00033	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0022	0.00047	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0022	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0022	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0022	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0022	0.00041	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.0012	J	0.0022	0.00039	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0026	J	0.0022	0.00079	0.0030	PFAS by ID SOP	
SB37-3 Duplicate of SB37-1 RPD = 23% RPD = 46% RPD = 7%	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0039	0.00054	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0039	0.00060	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0039	0.00043	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0039	0.00057	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0039	0.00068	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0039	0.00078	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0020	0.00026	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0020	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0020	0.00034	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0020	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0020	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0020	0.00082	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0020	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0020	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00046	J	0.0020	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0020	0.00029	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0020	0.00042	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00035	J	0.0020	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0020	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0020	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.00075	J	0.0020	0.00035	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0028	J	0.0020	0.00070	0.0030	PFAS by ID SOP	
SB38-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0056	0.00076	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0056	0.00085	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0056	0.00060	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0056	0.00081	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0056	0.00097	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0056	0.0011	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0028	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0028	0.00062	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0028	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0028	0.00061	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0028	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0028	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0028	0.0012	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0028	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0028	0.00049	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0028	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0028	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0028	0.00042	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0028	0.00059	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0028	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0028	0.00053	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0028	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0028	0.00052	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0028	0.00049	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0012	J	0.0028	0.00099	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB39-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		47.4	18.0	300	AK101
	DRO	215	J	474	205	250	AK102
	RRO	2140		474	158	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND		0.00237	0.00101	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND		0.00237	0.000593	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND	J	0.00593	0.000579	0.000031	8260D
	1,2,4-Trimethylbenzene	0.00503	J	0.00237	0.000501	0.61	8260D
	2-Butanone (MEK)	0.0790	J	0.0237	0.0111	15	8260D
	Acetone	0.652	J	0.119	0.0491	38	8260D
	Benzene	ND		0.00237	0.000890	0.022	8260D
	<i>Chloroform</i>	ND		0.0119	0.00244	0.0071	8260D
	Ethylbenzene	0.000743	J	0.00237	0.000712	0.13	8260D
	Toluene	ND		0.0119	0.00292	6.7	8260D
	Total Xylenes	0.00643	J	0.00712	0.00119	1.5	8260D
	<i>Vinyl chloride</i>	ND		0.00237	0.000536	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Benzo(b)fluoranthene	0.00520	J	0.0142	0.00363	15	8270D-SIM
	Fluoranthene	0.00728	J	0.0142	0.00539	590	8270D-SIM
	Fluorene	0.0240	J	0.0142	0.00486	36	8270D-SIM
	<i>Naphthalene</i>	ND		0.0474	0.00968	0.038	8270D-SIM
	Pyrene	0.00562	J	0.0142	0.00474	87	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0044	0.00061	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0044	0.00068	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0044	0.00048	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0044	0.00064	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0044	0.00077	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0044	0.00087	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.0012	J	0.0022	0.00029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0022	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0022	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0020	J	0.0022	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0022	0.00092	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0022	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0022	J	0.0022	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0031	J	0.0022	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0022	0.00033	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)	0.0014	J	0.0022	0.00047	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	0.0031	J	0.0022	0.00035	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0022	0.00042	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0022	0.00038	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0022	0.00041	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0087	J	0.0022	0.00039	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.013	J	0.0022	0.00079	0.0030	PFAS by ID SOP	
SB40-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0049	0.00067	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0020	J	0.0049	0.00075	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0049	0.00053	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0049	0.00071	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0049	0.00085	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0049	0.00097	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00089	J	0.0025	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0025	0.00055	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00076	J	0.0025	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0025	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0025	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0016	J	0.0025	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0018	J	0.0025	0.0010	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0025	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0025	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0018	J	0.0025	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0029	J	0.0025	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00084	J	0.0025	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0024	J	0.0025	0.00052	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0033	J	0.0025	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0025	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0025	0.00042	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0025	0.00045	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.015	J	0.0025	0.00043	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.046	J	0.0025	0.00087	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB41-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0053	0.00072	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0053	0.00081	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0053	0.00057	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0053	0.00076	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0053	0.00092	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0053	0.0010	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0026	0.00034	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0026	0.00059	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0026	0.00046	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0026	0.00058	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0026	0.00047	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0026	0.00049	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0026	0.0011	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0026	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0026	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0026	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0026	0.00049	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0026	0.00039	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0026	0.00056	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0026	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0026	0.00050	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0026	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0026	0.00049	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0013	J	0.0026	0.00046	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND		0.0026	0.00094	0.0030	PFAS by ID SOP
	SB42-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		3.38	1.28	300
DRO		ND		265	115	250	AK102
RRO		205	J	265	88.2	10000	AK103
<i>1,2-Dibromoethane</i>		ND		0.00132	0.000331	0.00024	8260D
<i>1,2,3-Trichloropropane</i>		ND		0.00331	0.000323	0.000031	8260D
1,2,4-Trimethylbenzene		0.000573	J	0.00132	0.000279	0.61	8260D
2-Butanone (MEK)		0.0672	J	0.0132	0.00619	15	8260D
Acetone		0.776		0.0662	0.0274	38	8260D
Benzene		0.0212		0.00132	0.000496	0.022	8260D
Bromomethane		0.00487	J	0.00662	0.00155	0.024	8260D
Ethylbenzene		ND		0.00132	0.000397	0.13	8260D
Styrene		0.000324	J	0.00132	0.000295	10	8260D
Toluene		0.00167	J	0.00662	0.00163	6.7	8260D
Total Xylenes		0.00107	J	0.00397	0.000662	1.5	8260D
<i>Vinyl chloride</i>		ND	J	0.00132	0.000299	0.00080	8260D
All other VOCs		ND		Varies	Varies	Varies	8260D
All PAHs		ND		Varies	Varies	Varies	8270D-SIM
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	J	0.0024	0.00033	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		0.033	J	0.0024	0.00037	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	J	0.0024	0.00026	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.0024	0.00034	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.0024	0.00041	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.0024	0.00047	N/A	PFAS by ID SOP
Perfluoro-1-butanefulfonic acid (PFBS)		0.00079	J	0.0012	0.00015	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.0012	0.00026	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		0.0037	J	0.0012	0.00021	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.0012	0.00026	N/A	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.0012	0.00021	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		0.0011	J	0.0012	0.00022	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		0.0020	J	0.0012	0.00049	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND		0.0012	0.00019	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.0012	0.00021	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		0.0019	J	0.0012	0.00017	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		0.0044	J	0.0012	0.00022	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.0012	0.00018	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		0.0053	J	0.0012	0.00025	0.0017	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)	0.0055	J	0.0012	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0012	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0097	J	0.0012	0.00021	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0044	J	0.0012	0.00042	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB42-3							
Duplicate of SB42-1	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0021	0.00029	N/A	PFAS by ID SOP
RPD = 107%	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.010	J	0.0021	0.00033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0021	0.00023	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0021	0.00031	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0021	0.00042	N/A	PFAS by ID SOP
RPD = 93%	Perfluoro-1-butanesulfonic acid (PFBS)	0.00029	J	0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
RPD = 124%	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00087	J	0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
RPD = 110%	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00032	J	0.0011	0.00020	N/A	PFAS by ID SOP
RPD = 100%	Perfluoro-n-butanoic acid (PFBA)	0.00067	J	0.0011	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
RPD = 108%	Perfluoro-n-heptanoic acid (PFHpA)	0.00057	J	0.0011	0.00015	N/A	PFAS by ID SOP
RPD = 93%	Perfluoro-n-hexanoic acid (PFHxA)	0.0016	J	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
RPD = 131%	Perfluoro-n-octanoic acid (PFOA)	0.0011	J	0.0011	0.00023	0.0017	PFAS by ID SOP
RPD = 89%	Perfluoro-n-pentanoic acid (PFPeA)	0.0021	J	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
RPD = 110%	Perfluorohexanesulfonic acid (PFHxS)	0.0028	J	0.0011	0.00019	N/A	PFAS by ID SOP
RPD = 75%	Perfluorooctanesulfonic acid (PFOS)	0.0020	J	0.0011	0.00038	0.0030	PFAS by ID SOP
SB43-1	GRO	ND		3.07	1.16	300	AK101
PID = 0 ppm	DRO	ND		236	102	250	AK102
Depth = 0 - 2.5 ft bg	RRO	ND		236	78.5	10000	AK103
	<u>1,2-Dibromoethane</u>	<u>ND</u>		<u>0.00118</u>	<u>0.000295</u>	0.00024	8260D
	<u>1,2,3-Trichloropropane</u>	<u>ND</u>		<u>0.00295</u>	<u>0.000288</u>	0.000031	8260D
	1,2,4-Trimethylbenzene	0.000258	J	0.00118	0.000249	0.61	8260D
	2-Butanone (MEK)	0.0290	J	0.0118	0.00552	15	8260D
	Acetone	0.404		0.0589	0.0244	38	8260D
	Benzene	0.00825		0.00118	0.000442	0.022	8260D
	Bromomethane	0.00303	J	0.00589	0.00138	0.024	8260D
	Ethylbenzene	ND		0.00118	0.000354	0.13	8260D
	Toluene	ND		0.00589	0.00145	6.7	8260D
	Total Xylenes	ND		0.00354	0.000589	1.5	8260D
	<i>Vinyl chloride</i>	ND	J	0.00118	0.000266	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	All PAHs	ND		Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0063	J	0.0050	0.00069	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.022	J	0.0050	0.00077	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0050	0.00055	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0050	0.00073	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0050	0.00088	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0050	0.0010	N/A	PFAS by ID SOP
	Perfluoro-1-butanesulfonic acid (PFBS)	0.0024	J	0.0025	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0025	0.00056	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0044	J	0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0025	0.00055	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	0.0012	J	0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0044	J	0.0025	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0035	J	0.0025	0.0010	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.0054	J	0.0025	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0064	J	0.0025	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.011	J	0.0025	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.014	J	0.0025	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.012	J	0.0025	0.00053	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.017	J	0.0025	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0025	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0025	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.0012	J	0.0025	0.00047	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.031	J	0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	1.5	J	0.025	0.0090	0.0030	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB44-1	GRO	ND		7.03	2.68	300	AK101
PID = 0 ppm	DRO	194	J	435	188	250	AK102
Depth = 0 - 2.5 ft bg	RRO	2000		435	145	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND		0.00222	0.000942	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND		0.00222	0.000555	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.00555	0.000542	0.000031	8260D
	<i>2-Hexanone</i>	ND		5.00	0.787	0.11	8260D
	4-Methyl-2-Pentanone (MIBK)	0.00311	J	0.0222	0.00211	18	8260D
	Benzene	ND		0.00222	0.000833	0.022	8260D
	<i>Chloroform</i>	ND		0.0111	0.00228	0.0071	8260D
	Ethylbenzene	ND		0.00222	0.000666	0.13	8260D
	Toluene	ND		0.0111	0.00272	6.7	8260D
	Total Xylenes	ND		0.00666	0.00111	1.5	8260D
	<i>Vinyl Acetate</i>	ND		5.00	0.692	1.1	8260D
	<i>Vinyl Chloride</i>	ND	J	0.00222	0.000503	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Benzo(A)Anthracene	0.00455	J	0.0131	0.00376	0.70	8270D-SIM
	Benzo(A)Pyrene	0.00611	J	0.0131	0.00389	1.5	8270D-SIM
	Benzo(B)Fluoranthene	0.00766	J	0.0131	0.00333	15	8270D-SIM
	Chrysene	0.00524	J	0.0131	0.00505	600	8270D-SIM
	Fluoranthene	0.0205		0.0131	0.00494	590	8270D-SIM
	Indeno(1,2,3-Cd)Pyrene	0.00616	J	0.0131	0.00394	15	8270D-SIM
	<i>Naphthalene</i>	ND		0.0435	0.00888	0.038	8270D-SIM
	Pyrene	0.0125	J	0.0131	0.00435	87	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.000093	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.000092	0.000031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0081	J	0.000093	0.000031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0025	J	0.000094	0.000025	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.000092	0.000014	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.000093	0.000038	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.000098	0.000029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.000098	0.000024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.000098	0.000024	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.000098	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0015	J	0.000098	0.000023	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00096	J	0.000087	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00067	J	0.000098	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	0.00010	J	0.000098	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	0.00028	J	0.000095	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0030	J	0.000098	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00083	J	0.000093	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0083	J	0.0020	0.00059	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0075	J	0.000089	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0016	J	0.000098	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	0.00011	J	0.000094	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0040	J	0.000098	0.000022	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.052	J	0.0018	0.00055	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	0.00030	J	0.000098	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0089	J	0.000098	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0013	J	0.000092	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.000098	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.000098	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.00025	J	0.000098	0.000028	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB45-1	GRO	ND		5.83	2.20	300	AK101
PID = 0 ppm	DRO	ND		350	152	250	AK102
Depth = 0 -2.5 ft bg	RRO	140	J	350	117	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND		<i>0.00185</i>	0.000789	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND		<i>0.00185</i>	<i>0.000464</i>	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND		<i>0.00464</i>	<i>0.000453</i>	0.000031	8260D
	<i>2-Hexanone</i>	ND		<i>5.00</i>	<i>0.787</i>	0.11	8260D
	4-Methyl-2-Pentanone (MIBK)	0.0127	J	0.0185	0.00177	18	8260D
	Benzene	ND		0.00185	0.000696	0.022	8260D
	<i>Chloroform</i>	ND		<i>0.00927</i>	0.00191	0.0071	8260D
	Ethylbenzene	ND		0.00185	0.000556	0.13	8260D
	P-Isopropyltoluene	0.000588	J	0.00185	0.000378	N/A	8260D
	Toluene	ND		0.00927	0.00227	6.7	8260D
	Total Xylenes	ND		0.00556	0.000927	1.5	8260D
	<i>Vinyl Acetate</i>	ND		<i>5.00</i>	0.692	1.1	8260D
	<i>Vinyl Chloride</i>	ND		<i>0.00185</i>	0.000420	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Fluoranthene	0.00609	J	0.0105	0.00397	590	8270D-SIM
	Phenanthrene	0.00959	J	0.0105	0.00404	39	8270D-SIM
	Pyrene	0.00471	J	0.0105	0.00350	87	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.000094	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.000093	0.000032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.060	J	0.0047	0.0016	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0046	J	0.000096	0.000026	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.000093	0.000014	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.000094	0.000038	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00010	0.000030	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00010	0.000025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00010	0.000025	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0025	J	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.0019	J	0.000088	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.0023	J	0.00010	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	0.00016	J	0.000096	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0054	J	0.00010	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0064	J	0.000095	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0090	J	0.00010	0.000030	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.030	J	0.0045	0.0011	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0036	J	0.00010	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	0.00022	J	0.000096	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.017	J	0.0050	0.0011	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.31	J	0.0046	0.0014	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	0.00015	J	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0079	J	0.00010	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0035	J	0.000094	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00010	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00010	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	0.00022	J	0.00010	0.000028	N/A	PFAS by ID SOP
SB45-3	GRO	ND		4.56	1.74	300	AK101
Duplicate of SB45-1	DRO	ND		332	144	250	AK102
RPD = 86%	RRO	350		332	110	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND		<i>0.00166</i>	0.000705	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND		<i>0.00166</i>	<i>0.000414</i>	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND		<i>0.00414</i>	<i>0.000405</i>	0.000031	8260D
	2-Butanone (MEK)	0.0143	J	0.0166	0.00776	15	8260D
	<i>2-Hexanone</i>	ND		<i>5.00</i>	<i>0.787</i>	0.11	8260D
	Acetone	0.466	J	0.0829	0.0343	38	8260D
	Benzene	ND		0.00166	0.000622	0.022	8260D
	<i>Chloroform</i>	ND		<i>0.00829</i>	0.00171	0.0071	8260D
	Ethylbenzene	ND		0.00166	0.000497	0.13	8260D
	Toluene	ND		0.00829	0.00204	6.7	8260D
	Total Xylenes	ND		0.00497	0.000829	1.5	8260D
	<i>Vinyl Acetate</i>	ND		<i>5.00</i>	0.692	1.1	8260D
	<i>Vinyl Chloride</i>	ND		<i>0.00166</i>	0.000375	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	All PAHs	ND		Varies	Varies	Varies	8270D-SIM

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB46-1	GRO	ND	4.28	1.62	300	AK101
PID = 0 ppm	DRO	ND	298	129	250	AK102
Depth = 0 - 2.5 ft bg	RRO	390	298	99.1	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND	0.00162	0.000689	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND	0.00162	0.000406	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND	0.00406	0.000396	0.000031	8260D
	2-Butanone (MEK)	0.0609	J 0.0162	0.00759	15	8260D
	<i>2-Hexanone</i>	ND	5.00	0.787	0.11	8260D
	4-Methyl-2-Pentanone (MIBK)	0.0133	J 0.0162	0.00155	18	8260D
	Acetone	1.73	J 0.0811	0.0336	38	8260D
	Benzene	0.00129	J 0.00162	0.000609	0.022	8260D
	<i>Chloroform</i>	ND	0.00811	0.00167	0.0071	8260D
	Ethylbenzene	ND	0.00162	0.000487	0.13	8260D
	P-Isopropyltoluene	0.000420	J 0.00162	0.000330	N/A	8260D
	Toluene	ND	0.00811	0.00199	6.7	8260D
	Total Xylenes	ND	0.00487	0.000811	1.5	8260D
	<i>Vinyl Acetate</i>	ND	5.00	0.692	1.1	8260D
	<i>Vinyl Chloride</i>	ND	0.00162	0.000366	0.00080	8260D
	All other VOCs	ND	Varies	Varies	Varies	8260D
	Benzo(A)Anthracene	0.00384	J 0.00893	0.00257	0.70	8270D-SIM
	Benzo(A)Pyrene	0.00402	J 0.00893	0.00266	1.5	8270D-SIM
	Benzo(B)Fluoranthene	0.00722	J 0.00893	0.00228	15	8270D-SIM
	Benzo(G,H,I)Perylene	0.00649	J 0.00893	0.00263	2300	8270D-SIM
	Chrysene	0.00460	J 0.00893	0.00345	600	8270D-SIM
	Fluoranthene	0.0118	J 0.00893	0.00338	590	8270D-SIM
	Indeno(1,2,3-Cd)Pyrene	0.00451	J 0.00893	0.00269	15	8270D-SIM
	Phenanthrene	0.00442	J 0.00893	0.00344	39	8270D-SIM
	Pyrene	0.00815	J 0.00893	0.00298	87	8270D-SIM
	All other PAHs	ND	Varies	Varies	Varies	8270D-SIM
	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.055	J 0.0019	0.00063	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0028	J 0.000095	0.000026	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000099	0.000029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000099	0.000024	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0026	J 0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.0011	J 0.000087	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00077	J 0.000099	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0064	J 0.000099	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0011	J 0.000094	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.013	J 0.0020	0.00059	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.013	J 0.0018	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0017	J 0.000099	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000095	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0062	J 0.000099	0.000022	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.066	J 0.0018	0.00055	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0094	J 0.000099	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0019	J 0.000093	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000099	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	0.00011	J 0.000099	0.000028	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB47-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000094	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000093	0.000032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.026	J 0.000095	0.000032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0011	J 0.000096	0.000026	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000093	0.000014	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000094	0.000038	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00010	0.000030	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.00048	J 0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000088	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00022	J 0.00010	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000096	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00065	J 0.00010	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0024	J 0.00010	0.000030	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00019	J 0.000091	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00049	J 0.00010	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000096	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0014	J 0.00010	0.000023	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0012	J 0.000092	0.000028	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0033	J 0.00010	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000094	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00010	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00010	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP
	SB48-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000092	0.000016	N/A
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.000091	0.000031	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		0.0027	J 0.000093	0.000031	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		0.00018	J 0.000094	0.000025	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.000091	0.000014	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.000092	0.000038	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.000098	0.000029	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.000098	0.000024	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.000098	0.000024	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.000098	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		0.00012	J 0.000098	0.000023	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.000087	0.000022	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND	0.000098	0.000021	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.000098	0.000026	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.000094	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		0.00016	J 0.000098	0.000022	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		0.00011	J 0.000093	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		0.00042	J 0.000098	0.000029	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.00075	J 0.000089	0.000022	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		0.00048	J 0.000098	0.000028	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.000094	0.000018	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		0.00093	J 0.000098	0.000022	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.019	J 0.00090	0.00027	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.000098	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		0.00038	J 0.000098	0.000026	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.000092	0.000018	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.000098	0.000031	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.000098	0.000021	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.000098	0.000027	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB49-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP
	SB50-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00012	0.000021	N/A
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00012	0.000040	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00012	0.000041	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00012	0.000033	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00012	0.000018	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00012	0.000049	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00013	0.000038	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00013	0.000032	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00013	0.000031	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00013	0.000030	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND	0.00013	0.000030	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00011	0.000028	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND	0.00013	0.000028	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00013	0.000034	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00012	0.000032	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00013	0.000029	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00012	0.000032	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00013	0.000038	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		ND	0.00012	0.000028	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00013	0.000036	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00012	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND	0.00013	0.000029	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		ND	0.00012	0.000035	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00013	0.000030	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00013	0.000033	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00012	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00013	0.000041	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND	0.00013	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00013	0.000036	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB51-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00010	0.000018	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0063	J	0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.00011	0.000029	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00010	0.000016	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00010	0.000042	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00011	0.000033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.00016	J	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00011	J	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00011	0.000028	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00029	J	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00010	0.000028	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00086	J	0.00011	0.000033	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0029	J	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00011	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00037	J	0.00011	0.000025	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND		0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00087	J	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00011	J	0.00010	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00011	0.000035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP
	SB52-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00010	0.000017	N/A
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND		0.00010	0.000034	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND		0.00010	0.000034	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND		0.00010	0.000028	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND		0.00010	0.000016	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND		0.00010	0.000041	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND		0.00011	0.000032	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.00011	0.000027	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.00011	0.000027	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.00011	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND		0.00011	0.000026	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		ND		0.00010	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND		0.00011	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.00011	0.000029	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.00010	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.00011	0.000024	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.00010	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.00011	0.000032	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		ND		0.00010	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.00011	0.000031	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00010	0.000019	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND		0.00011	0.000024	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		ND		0.00010	0.000030	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00011	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.00011	0.000028	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.00010	0.000020	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.00011	0.000035	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND		0.00011	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.00011	0.000030	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB53-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00010	0.000017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00010	0.000034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0013	J	0.00010	0.000034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.00010	0.000028	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00010	0.000016	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00010	0.000041	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00011	0.000032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND		0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00011	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00023	J	0.00011	0.000032	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00011	0.000024	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND		0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00037	J	0.00011	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00010	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00011	0.000035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00011	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00011	0.000030	N/A	PFAS by ID SOP
	SB54-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00010	0.000017	N/A
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND		0.00010	0.000034	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND		0.00010	0.000034	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND		0.00010	0.000027	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND		0.00010	0.000015	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND		0.00010	0.000040	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND		0.00011	0.000031	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.00011	0.000026	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.00011	0.000026	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.00011	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND		0.00011	0.000025	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		ND		0.000093	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND		0.00011	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.00011	0.000028	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.00010	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.00011	0.000024	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.00010	0.000026	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.00011	0.000032	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		ND		0.00010	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.00011	0.000030	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00010	0.000019	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND		0.00011	0.000024	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		ND		0.00010	0.000029	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00011	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.00011	0.000028	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.00010	0.000020	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.00011	0.000034	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND		0.00011	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.00011	0.000030	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB55-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000024	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000030	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	SB56-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00010	0.000035	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00011	0.000035	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00010	0.000016	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00010	0.000043	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00011	0.000033	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		0.00021	J	0.00011	0.000033	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		ND		0.00010	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.00011	0.000032	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00011	0.000020	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND		0.00011	0.000025	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		ND		0.00010	0.000031	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00011	0.000026	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		0.00015	J	0.00011	0.000029	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.00010	0.000021	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.00011	0.000036	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND		0.00011	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.00011	0.000031	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB57-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	SB58-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000019	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00011	0.000037	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00011	0.000037	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00011	0.000030	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00011	0.000017	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00011	0.000044	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00012	0.000034	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00012	0.000029	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00012	0.000029	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00012	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00012	0.000027	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00010	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00012	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00012	0.000031	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00012	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00012	0.000035	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00012	0.000033	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00011	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND	0.00012	0.000026	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.00015	J	0.00011	0.000032	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00012	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00012	0.000030	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00011	0.000022	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00012	0.000037	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND	0.00012	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00012	0.000033	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB58-3	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000019	N/A	PFAS by ID SOP
Duplicate of SB58-1	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000037	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000030	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00011	0.000017	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000044	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000026	0.0017	PFAS by ID SOP
RPD = 24%	Perfluorooctanesulfonic acid (PFOS)	0.00019	J 0.00011	0.000032	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000037	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP
SB60-1	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP
PID = 0 ppm	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB62-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00011	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000044	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000026	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00011	0.000032	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	SB65-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00010	0.000035	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00010	0.000028	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00010	0.000016	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00010	0.000042	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00011	0.000032	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00010	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00011	0.000033	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00011	0.000031	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00010	0.000020	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		ND	0.00010	0.000030	0.0030	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00010	0.000020	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00011	0.000035	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.00011	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00011	0.000031	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method		
SB67-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00010	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanedisulfonic acid (PFBS)	ND		0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanedisulfonic acid (PFDS)	ND		0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanedisulfonic acid (PFHpS)	ND		0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanedisulfonic acid (PFHxS)	ND		0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nanadisulfonic acid (PFNS)	ND		0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanedisulfonic acid (PFOS)	ND		0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanedisulfonic acid (PFPeS)	ND		0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP	
	SB69-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0077	0.0011	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0077	0.0012	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0077	0.00083	N/A	PFAS by ID SOP
		N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0077	0.0011	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.0077	0.0013	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.0077	0.0015	N/A	PFAS by ID SOP	
Perfluoro-1-butanedisulfonic acid (PFBS)		ND		0.0038	0.00050	N/A	PFAS by ID SOP	
Perfluoro-1-decanedisulfonic acid (PFDS)		ND		0.0038	0.00086	N/A	PFAS by ID SOP	
Perfluoro-1-heptanedisulfonic acid (PFHpS)		ND		0.0038	0.00067	N/A	PFAS by ID SOP	
Perfluoro-1-nanadisulfonic acid (PFNS)		ND		0.0038	0.00085	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.0038	0.00068	N/A	PFAS by ID SOP	
Perfluoro-1-pentanedisulfonic acid (PFPeS)		ND		0.0038	0.00071	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND		0.0038	0.0016	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND		0.0038	0.00061	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.0038	0.00068	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.0038	0.00055	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.0038	0.00071	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND		0.0038	0.00057	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND		0.0038	0.00082	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.0038	0.00061	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.0038	0.00073	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND		0.0038	0.00066	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)		ND		0.0038	0.00071	N/A	PFAS by ID SOP	
Perfluorohexanedisulfonic acid (PFHxS)		ND		0.0038	0.00068	N/A	PFAS by ID SOP	
Perfluorooctanedisulfonic acid (PFOS)			0.0042	J	0.0038	0.0014	0.0030	PFAS by ID SOP
SB70-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0059	0.00081	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0059	0.00090	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0059	0.00064	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0059	0.00085	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0059	0.0010	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0059	0.0012	N/A	PFAS by ID SOP	
	Perfluoro-1-butanedisulfonic acid (PFBS)	ND		0.0029	0.00038	N/A	PFAS by ID SOP	
	Perfluoro-1-decanedisulfonic acid (PFDS)	ND		0.0029	0.00065	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanedisulfonic acid (PFHpS)	ND		0.0029	0.00051	N/A	PFAS by ID SOP	
	Perfluoro-1-nanadisulfonic acid (PFNS)	ND		0.0029	0.00065	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0029	0.00052	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanedisulfonic acid (PFPeS)	ND		0.0029	0.00055	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0029	0.0012	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0029	0.00046	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0029	0.00052	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0029	0.00042	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0029	0.00054	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0029	0.00044	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0029	0.00062	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0029	0.00047	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0029	0.00056	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0029	0.00050	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0029	0.00054	N/A	PFAS by ID SOP	
Perfluorohexanedisulfonic acid (PFHxS)	ND		0.0029	0.00052	N/A	PFAS by ID SOP		
Perfluorooctanedisulfonic acid (PFOS)	ND		0.0029	0.0010	0.0030	PFAS by ID SOP		

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB71-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0049	0.00067	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0049	0.00075	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0049	0.00053	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0049	0.00071	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0049	0.00085	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0049	0.00096	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0024	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-decanefulfonic acid (PFDS)	ND		0.0024	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0024	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0024	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0024	0.0010	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0024	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0024	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0024	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0024	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0024	0.00052	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0024	0.00039	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0024	0.00046	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0024	0.00042	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0024	0.00045	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0024	0.00043	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0024	0.00087	0.0030	PFAS by ID SOP	
SB72-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0047	0.00065	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0047	0.00072	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0047	0.00051	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0047	0.00068	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0047	0.00082	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0047	0.00093	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0024	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-decanefulfonic acid (PFDS)	ND		0.0024	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0024	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0024	0.00052	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0024	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0024	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0024	0.00098	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0024	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0024	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00048	J	0.0024	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00077	J	0.0024	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0024	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0024	0.00050	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0012	J	0.0024	0.00037	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0024	0.00045	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0024	0.00041	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0024	0.00044	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0013	J	0.0024	0.00042	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0023	J	0.0024	0.00084	0.0030	PFAS by ID SOP	
SB73-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0055	0.00075	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0024	J	0.0055	0.00084	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0055	0.00060	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0055	0.00079	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0055	0.00096	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0055	0.0011	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0027	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-decanefulfonic acid (PFDS)	ND		0.0027	0.00061	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0027	0.00048	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0027	0.00060	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0027	0.00048	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00058	J	0.0027	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0013	J	0.0027	0.0011	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0027	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0027	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00052	J	0.0027	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0012	J	0.0027	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0027	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00058	J	0.0027	0.00058	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0015	J	0.0027	0.00044	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0027	0.00052	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0027	0.00047	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0027	0.00051	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0023	J	0.0027	0.00048	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0048	J	0.0027	0.00098	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB74-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0020	0.00027	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.00030	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0020	0.00022	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0020	0.00029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0020	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0010	0.00013	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0010	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0010	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0010	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0010	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0010	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0010	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00025	J	0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0010	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0010	0.00021	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00036	J	0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0010	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0010	0.00035	0.0030	PFAS by ID SOP	
SB75-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0050	0.00069	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0050	0.00077	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0050	0.00054	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0050	0.00072	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0050	0.00087	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0050	0.00099	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.00058	J	0.0025	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0025	0.00056	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0025	0.00055	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0025	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0025	0.0010	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0025	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00063	J	0.0025	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0019	J	0.0025	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0025	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0025	0.00053	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0029	J	0.0025	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0025	0.00047	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0025	0.00043	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0025	0.00046	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0017	J	0.0025	0.00044	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0029	J	0.0025	0.00089	0.0030	PFAS by ID SOP	
SB76-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0032	0.00044	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.011	J	0.0032	0.00049	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0032	0.00034	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0032	0.00046	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0032	0.00055	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0032	0.00063	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.0014	J	0.0016	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0016	0.00035	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00088	J	0.0016	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0016	0.00035	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0016	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0023	J	0.0016	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0088	J	0.0016	0.00066	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00077	J	0.0016	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0016	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.014	J	0.0016	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.012	J	0.0016	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.012	J	0.0016	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.019	J	0.0016	0.00034	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.015	J	0.0016	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0016	0.00030	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0016	0.00027	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0016	0.00029	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.013	J	0.0016	0.00028	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.033	J	0.0016	0.00057	0.0030	PFAS by ID SOP	

TABLE 5
 HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
 HOMER AIRPORT
 HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB76-2 PID = 0 ppm Depth = 2.5 - 5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0021	0.00029	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0021	0.00033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0021	0.00023	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0021	0.00031	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0021	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanefulfonic acid (PFDS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-butanofic acid (PFBA)	ND		0.0011	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-decanofic acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanofic acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-heptanofic acid (PFHpA)	ND		0.0011	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-hexanofic acid (PFHxA)	0.00021	J	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-nonanofic acid (PFNA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-octanofic acid (PFOA)	ND		0.0011	0.00023	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanofic acid (PFPeA)	0.00018	J	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanofic acid (PFTrDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanofic acid (PFTrDA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-undecanofic acid (PFUDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.00023	J	0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.00069	J	0.0011	0.00038	0.0030	PFAS by ID SOP	
SB77-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		51.5	19.6	300	AK101
	DRO	ND		377	163	250	AK102
	RRO	1270		377	126	10000	AK103
	1,1,2-Trichloroethane	ND		0.00189	0.000801	0.0014	8260D
	1,2-Dibromoethane	ND		0.00189	0.000471	0.00024	8260D
	1,2,3-Trichloropropane	ND	J	0.00471	0.000460	0.000031	8260D
	1,2,4-Trimethylbenzene	0.00622	J	0.00189	0.000398	0.61	8260D
	1,3,5-Trimethylbenzene	0.00134	J	0.00189	0.000502	0.66	8260D
	2-Butanone (MEK)	0.200	J	0.0189	0.00882	15	8260D
	Acetone	1.44	J	0.0943	0.0390	38	8260D
	Benzene	ND		0.00189	0.000707	0.022	8260D
	Chloroform	ND		0.00943	0.00194	0.0071	8260D
	Ethylbenzene	0.000803	J	0.00189	0.000566	0.13	8260D
	n-Propylbenzene	0.00114	J	0.00189	0.000388	9.1	8260D
	Naphthalene	0.0156	J	0.00943	0.00939	0.038	8260D
	Toluene	0.00437	J	0.00943	0.00232	6.7	8260D
	Total Xylenes	0.00992	J	0.00566	0.000943	1.5	8260D
	Vinyl chloride	ND		0.00189	0.000426	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Benzo(a)pyrene	0.00662	J	0.0113	0.00337	1.5	8270D-SIM
	Fluorene	0.00439	J	0.0113	0.00387	36	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0038	0.00051	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.0003062	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0038	0.00041	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0038	0.00054	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0038	0.00065	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0038	0.00074	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.00052	J	0.0019	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-decanefulfonic acid (PFDS)	ND		0.0019	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0019	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00079	J	0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-butanofic acid (PFBA)	0.0021	J	0.0019	0.00078	N/A	PFAS by ID SOP
Perfluoro-n-decanofic acid (PFDA)	ND		0.0019	0.00030	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanofic acid (PFDoA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP	
Perfluoro-n-heptanofic acid (PFHpA)	0.0030	J	0.0019	0.00027	N/A	PFAS by ID SOP	
Perfluoro-n-hexanofic acid (PFHxA)	0.0059	J	0.0019	0.00035	N/A	PFAS by ID SOP	
Perfluoro-n-nonanofic acid (PFNA)	0.00046	J	0.0019	0.00028	N/A	PFAS by ID SOP	
Perfluoro-n-octanofic acid (PFOA)	0.0025	J	0.0019	0.00040	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanofic acid (PFPeA)	0.0063	J	0.0019	0.00030	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanofic acid (PFTrDA)	ND		0.0019	0.00036	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanofic acid (PFTrDA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP	
Perfluoro-n-undecanofic acid (PFUDA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0053	J	0.0019	0.00033	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.022	J	0.0019	0.00067	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB78-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	51.7	19.7	300	AK101
	DRO	ND	339	147	250	AK102
	RRO	678	339	113	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND	0.00169	0.000720	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND	0.00169	0.000424	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND	J 0.00424	0.000413	0.000031	8260D
	Acetone	0.542	J 0.0847	0.0351	38	8260D
	Benzene	ND	0.00169	0.000635	0.022	8260D
	<i>Chloroform</i>	ND	0.00847	0.00174	0.0071	8260D
	Ethylbenzene	ND	0.00169	0.000508	0.13	8260D
	Toluene	ND	0.00847	0.00208	6.7	8260D
	Total Xylenes	0.00105	J 0.00508	0.000847	1.5	8260D
	<i>Vinyl chloride</i>	ND	0.00169	0.000383	0.00080	8260D
	All other VOCs	ND	Varies	Varies	Varies	8260D
	Benzo(a)pyrene	0.00313	J 0.0102	0.00303	1.5	8270D-SIM
	All other PAHs	ND	Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J 0.0035	0.00047	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.00090	J 0.0035	0.00053	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J 0.0035	0.00037	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0035	0.00050	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0035	0.00060	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0035	0.00068	N/A	PFAS by ID SOP
	Perfluoro-1-butan sulfonic acid (PFBS)	0.00060	J 0.0017	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0017	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00062	J 0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0017	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0013	J 0.0017	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0022	J 0.0017	0.00072	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0017	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0035	J 0.0017	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0043	J 0.0017	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00078	J 0.0017	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0029	J 0.0017	0.00037	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0041	J 0.0017	0.00027	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0017	0.00033	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0017	0.00030	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	ND	0.0017	0.00032	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.011	J 0.0017	0.00030	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.028	J 0.0017	0.00061	0.0030	PFAS by ID SOP	
SB79-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J 0.0046	0.00063	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J 0.0046	0.00070	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J 0.0046	0.00050	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J 0.0046	0.00066	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0046	0.00079	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0046	0.00090	N/A	PFAS by ID SOP
	Perfluoro-1-butan sulfonic acid (PFBS)	ND	0.0023	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0023	0.00051	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0023	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0023	0.00050	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0023	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0023	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0023	0.00095	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0023	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0023	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0023	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0023	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0023	0.00034	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND	0.0023	0.00049	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0023	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0023	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0023	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND	0.0023	0.00042	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.0023	0.00040	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.00099	J 0.0023	0.00081	0.0030	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB80-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0090	0.0012	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0090	0.0014	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0090	0.00097	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0090	0.0013	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0090	0.0016	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0090	0.0018	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulonic acid (PFBS)	ND		0.0045	0.00058	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0045	0.0010	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0045	0.00079	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0045	0.00099	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0045	0.00079	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0045	0.00083	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0045	0.0019	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0045	0.00071	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0045	0.00079	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0045	0.00064	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0045	0.00083	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0045	0.00067	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0045	0.00095	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0045	0.00071	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0045	0.00085	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0045	0.00077	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0045	0.00083	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0045	0.00079	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	ND		0.0045	0.0016	0.0030	PFAS by ID SOP	
SB80-3 Duplicate of SB80-1	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0079	0.0011	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.0003062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0079	0.00086	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0079	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0079	0.0014	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0079	0.0016	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulonic acid (PFBS)	ND		0.0040	0.00052	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0040	0.00088	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0040	0.00069	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0040	0.00087	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0040	0.00070	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0040	0.00073	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0040	0.0016	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0040	0.00062	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0040	0.00069	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0040	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0040	0.00073	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0040	0.00059	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0040	0.00084	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0040	0.00063	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0040	0.00075	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0040	0.00068	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0040	0.00073	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0040	0.00070	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	ND		0.0040	0.0014	0.0030	PFAS by ID SOP	
SB81-1 PID = 0 ppm	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0060	0.00082	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0060	0.00091	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0060	0.00065	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0060	0.00086	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0060	0.0010	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0060	0.0012	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulonic acid (PFBS)	ND		0.0030	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0030	0.00067	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0030	0.00052	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0030	0.00066	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0030	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0030	0.00055	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0030	0.0012	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0030	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0030	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0030	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0030	0.00055	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0030	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0030	0.00063	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0030	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0030	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0030	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0030	0.00055	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0030	0.00053	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	ND		0.0030	0.0011	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB82-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0061	0.00084	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0061	0.00094	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0061	0.00066	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0061	0.00089	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0061	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0061	0.0012	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0031	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0031	0.00068	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0031	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0031	0.00068	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0031	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0031	0.00057	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0031	0.0013	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0031	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0031	0.00054	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0031	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0031	0.00057	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0031	0.00046	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0031	0.00065	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0031	0.00049	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0031	0.00058	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0031	0.00053	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0031	0.00057	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0031	0.00054	N/A	PFAS by ID SOP
	<i>Perfluorooctanesulfonic acid (PFOS)</i>	ND		0.0031	0.0011	0.0030	PFAS by ID SOP
SB83-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0091	0.0013	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0034	J	0.0091	0.0014	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0091	0.00099	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0091	0.0013	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0091	0.0016	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0091	0.0018	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.00060	J	0.0046	0.00060	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0046	0.0010	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0046	0.00080	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0046	0.0010	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0046	0.00081	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0010	J	0.0046	0.00085	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0025	J	0.0046	0.0019	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0046	0.00072	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0046	0.00080	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0019	J	0.0046	0.00065	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0027	J	0.0046	0.00085	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0013	J	0.0046	0.00068	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0022	J	0.0046	0.00097	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0044	J	0.0046	0.00073	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0046	0.00087	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0046	0.00079	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0046	0.00085	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0084	J	0.0046	0.00081	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.066	J	0.0046	0.0016	0.0030	PFAS by ID SOP
SB84-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0036	0.00049	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0036	0.00055	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0036	0.00039	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0036	0.00052	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0036	0.00063	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0036	0.00071	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0018	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0018	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0018	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0018	0.00075	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0018	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0018	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0018	0.00027	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0018	0.00038	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0018	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND		0.0018	0.00064	0.0030	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB85-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0039	0.00054	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0039	0.00060	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0039	0.00042	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0039	0.00057	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0039	0.00068	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0039	0.00077	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0020	0.00026	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0020	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0020	0.00034	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0020	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0020	0.00081	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0020	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0020	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0020	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0020	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0020	0.00042	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0020	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0020	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0020	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00035	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00070	0.0030	PFAS by ID SOP	
SB85-3 Duplicate of SB85-1	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0025	0.00034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0025	0.00038	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0025	0.00027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0025	0.00036	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0025	0.00044	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0025	0.00050	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0013	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0013	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0013	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0013	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0013	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0013	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0013	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0013	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0013	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0013	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0013	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0013	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0013	0.00027	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0013	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0013	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0013	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0013	0.00023	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0013	0.00022	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0013	0.00045	0.0030	PFAS by ID SOP	
SB86-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0042	0.00058	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0011	J	0.0042	0.00065	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0042	0.00046	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0042	0.00061	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0042	0.00073	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0042	0.00083	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.00029	J	0.0021	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0021	0.00047	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0021	0.00046	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00054	J	0.0021	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0021	0.00088	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0021	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00066	J	0.0021	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0011	J	0.0021	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00035	J	0.0021	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00084	J	0.0021	0.00045	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0011	J	0.0021	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0021	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0021	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0021	0.00039	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.0033	J	0.0021	0.00037	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.013	J	0.0021	0.00075	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB87-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0038	0.00052	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.0003062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0038	0.00041	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0038	0.00055	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0038	0.00066	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0038	0.00075	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.0025	J	0.0019	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0019	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0019	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0029	J	0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0039	J	0.0019	0.00078	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0064	J	0.0019	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.024	J	0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0019	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0017	J	0.0019	0.00040	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.034	J	0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0019	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.0087	J	0.0019	0.00033	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0016	J	0.0019	0.00067	0.0030	PFAS by ID SOP	
SB88-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		3.41	1.30	300	AK101
	DRO	ND		273	118	250	AK102
	RRO	ND		273	90.8	10000	AK103
	<u>1,2-Dibromoethane</u>	<u>ND</u>		<u>0.00136</u>	<u>0.000341</u>	0.00024	8260D
	<u>1,2,3-Trichloropropane</u>	<u>ND</u>		<u>0.00341</u>	<u>0.000333</u>	0.000031	8260D
	1,2,4-Trimethylbenzene	0.000322	J	0.00136	0.000288	0.61	8260D
	2-Butanone (MEK)	0.0327	J	0.0136	0.00638	15	8260D
	Acetone	0.445		0.0682	0.0282	38	8260D
	Benzene	0.0110		0.00136	0.000511	0.022	8260D
	Bromomethane	0.00338	J	0.00682	0.00160	0.024	8260D
	Ethylbenzene	ND		0.00136	0.000409	0.13	8260D
	Toluene	ND		0.00682	0.00168	6.7	8260D
	Total Xylenes	0.000723	J	0.00409	0.000682	1.5	8260D
	<i>Vinyl chloride</i>	ND	J	0.00136	0.000308	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	All PAHs	ND		Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.007	0.00096	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.007	0.0011	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.007	0.00076	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0070	0.0010	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.007	0.0012	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.007	0.0014	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.0020	J	0.0035	0.00046	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0035	0.00078	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0035	0.00062	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0035	0.00077	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0035	0.00062	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0015	J	0.0035	0.00065	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0081	J	0.0035	0.0015	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0035	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0035	0.00062	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0047	J	0.0035	0.00050	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.035	J	0.0035	0.00065	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)	ND		0.0035	0.00052	N/A	PFAS by ID SOP	
<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0035	0.00075	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	0.046	J	0.0035	0.00056	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0035	0.00066	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0035	0.00060	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0035	0.00065	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0013	J	0.0035	0.00062	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0022	J	0.0035	0.0013	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB89-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0076	0.0010	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0076	0.0012	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0076	0.00082	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0076	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0076	0.0013	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0076	0.0015	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0038	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0038	0.00084	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0038	0.00066	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0038	0.00083	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0038	0.00067	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0038	0.00070	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0038	0.0016	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0038	0.00060	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0038	0.00066	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0038	0.00054	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0038	0.00070	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0038	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0038	0.00080	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0038	0.00060	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0038	0.00071	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0038	0.00065	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0038	0.00070	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0038	0.00067	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0038	0.0013	0.0030	PFAS by ID SOP	
SB90-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0060	0.00083	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0060	0.00092	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0060	0.00065	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0060	0.00087	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0060	0.0010	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0060	0.0012	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0030	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0030	0.00067	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0030	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0030	0.00066	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0030	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0030	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0030	0.0013	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0030	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0030	0.00053	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0030	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0030	0.00056	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0030	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0030	0.00064	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0030	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0030	0.00057	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0030	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0030	0.00056	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0030	0.00053	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0030	0.0011	0.0030	PFAS by ID SOP	
SB91-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0037	0.00051	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0037	0.00057	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0037	0.00040	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0037	0.00053	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0037	0.00064	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0037	0.00073	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0018	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0018	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0018	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0018	0.00077	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0018	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0018	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0018	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0018	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0018	0.00039	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0018	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0018	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0018	0.00034	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0018	0.00033	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0018	0.00066	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB92-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0069	0.00095	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0069	0.0011	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0069	0.00075	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0069	0.0010	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0069	0.0012	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0069	0.0014	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0035	0.00045	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0035	0.00077	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0035	0.00061	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0035	0.00076	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0035	0.00061	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0035	0.00064	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0035	0.0014	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0035	0.00055	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0035	0.00061	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0035	0.00049	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0035	0.00064	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0035	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0035	0.00073	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0035	0.00055	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0035	0.00065	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0035	0.00059	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0035	0.00064	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0035	0.00061	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0035	0.0012	0.0030	PFAS by ID SOP	
SB93-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0049	0.00067	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0049	0.00075	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0049	0.00053	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0049	0.00070	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0049	0.00085	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0049	0.00096	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0024	0.00032	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0024	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0024	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0024	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0024	0.0010	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0024	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0024	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0024	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0024	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0024	0.00052	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0024	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0024	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0024	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0024	0.00045	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0024	0.00043	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0024	0.00087	0.0030	PFAS by ID SOP	
SB94-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0042	0.00058	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0042	0.00065	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0042	0.00046	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0042	0.00061	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0042	0.00074	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0042	0.00084	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0021	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0021	0.00047	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0021	0.00047	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0021	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0021	0.00088	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0021	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0021	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0021	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0021	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0021	0.00045	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0021	0.00034	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0021	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0021	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0021	0.00039	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0021	0.00037	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0021	0.00075	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB95-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0041	0.00056	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0041	0.00062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0041	0.00044	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0041	0.00059	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0041	0.00071	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0041	0.00080	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0020	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0020	0.00045	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0020	0.00045	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0020	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0020	0.00085	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0020	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0020	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0020	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0020	0.00030	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0020	0.00043	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0020	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0020	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0020	0.00038	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0020	0.00036	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0020	0.00072	0.0030	PFAS by ID SOP	
SB96-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0068	0.00093	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0068	0.0010	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0068	0.00073	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0068	0.00098	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0068	0.0012	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0068	0.0013	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0034	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0034	0.00076	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0034	0.00059	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0034	0.00075	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0034	0.00060	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0034	0.00063	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0034	0.0014	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0034	0.00054	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0034	0.00060	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0034	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0034	0.00063	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0034	0.00051	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0034	0.00072	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0034	0.00054	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0034	0.00064	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0034	0.00058	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0034	0.00063	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0034	0.00060	N/A	PFAS by ID SOP	
<i>Perfluorooctanesulfonic acid (PFOS)</i>	ND		0.0034	0.0012	0.0030	PFAS by ID SOP	
SB97-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0020	0.0002743	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.0003062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0044	0.00047	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0044	0.00063	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0044	0.00076	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0044	0.00086	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.00074	J	0.0022	0.00029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0022	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0022	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0022	0.00048	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0022	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00098	J	0.0022	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0017	J	0.0022	0.00091	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.0010	J	0.0022	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0022	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0030	J	0.0022	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0050	J	0.0022	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0031	J	0.0022	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0032	J	0.0022	0.00046	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0071	J	0.0022	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0022	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0022	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0022	0.00040	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.0073	J	0.0022	0.00039	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.10	J	0.0022	0.00078	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB98-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0020	0.0002743	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.0003062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.018	0.0020	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.018	0.0026	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.018	0.0032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.018	0.0036	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	0.0025	J	0.0091	0.0012	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0091	0.0020	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0016	J	0.0091	0.0016	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0091	0.0020	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0091	0.0016	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0031	J	0.0091	0.0017	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0071	J	0.0091	0.0038	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.010	0.000158	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	J	0.0091	0.0016	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0099	J	0.0091	0.0013	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.017	J	0.0091	0.0017	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0080	J	0.0091	0.0014	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0079	J	0.0091	0.0019	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.026	J	0.0091	0.0014	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0091	0.0017	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	J	0.0091	0.0016	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0091	0.0017	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.022	J	0.0091	0.0016	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.29	J	0.0091	0.0032	0.0030	PFAS by ID SOP	
SB99-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0037	0.00051	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0020	0.0003062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0037	0.00040	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0037	0.00054	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0037	0.00065	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0037	0.00074	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0019	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0019	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0019	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0019	0.00078	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0019	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0019	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0019	0.00028	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	<i>ND</i>		<i>0.0019</i>	0.00040	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0019	0.00034	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00067	0.0030	PFAS by ID SOP	
SB99-3 Duplicate of SB99-1	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0034	0.00046	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0034	0.00052	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0034	0.00037	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0034	0.00049	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0034	0.00059	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0034	0.00067	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0017	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0017	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0017	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0017	0.00070	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0017	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0017	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0017	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0017	0.00036	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0017	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0017	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0017	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0017	0.00030	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0017	0.00060	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB100-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0024	0.00034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0024	0.00037	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0024	0.00027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0024	0.00035	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0024	0.00048	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0012	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0012	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0012	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0012	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0012	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0012	0.00026	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0012	0.00022	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0012	0.00044	0.0030	PFAS by ID SOP	
SB101-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0050	0.00069	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0050	0.00077	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0050	0.00055	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0050	0.00073	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0050	0.00088	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0050	0.0010	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0025	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0025	0.00056	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0025	0.00056	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0025	0.00045	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0025	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0025	0.0010	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0025	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0025	0.00044	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0025	0.00036	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0025	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0025	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0025	0.00054	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0025	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0025	0.00048	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0025	0.00043	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0025	0.00047	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0025	0.00044	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0025	0.00090	0.0030	PFAS by ID SOP	
SB102-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0020	0.00028	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.00031	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0020	0.00022	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0020	0.00030	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0020	0.00036	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0020	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0010	0.00013	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0010	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0010	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0010	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0010	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0010	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0010	0.00022	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0010	0.00036	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB103-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0033	0.00045	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0033	0.00051	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0033	0.00036	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0033	0.00048	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0033	0.00058	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0033	0.00065	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0017	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0017	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0017	0.00029	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0017	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0017	0.00029	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0017	0.00069	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0017	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0017	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0017	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0017	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0017	0.00035	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0017	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0017	0.00028	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0017	0.00031	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0017	0.00029	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0017	0.00059	0.0030	PFAS by ID SOP	
SB104-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0066	0.00090	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0020	0.0003062	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0066	0.00071	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0066	0.00095	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0066	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0066	0.0013	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0033	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0033	0.00073	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0033	0.00058	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0033	0.00072	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0033	0.00058	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0033	0.00061	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0033	0.0014	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0033	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0033	0.00058	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0033	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0033	0.00061	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0033	0.00049	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0033	0.00070	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0033	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0033	0.00062	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0033	0.00057	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0033	0.00061	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0033	0.00058	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0033	0.0012	0.0030	PFAS by ID SOP	
SB105-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0037	0.00051	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0037	0.00057	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0037	0.00041	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0037	0.00054	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0037	0.00065	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0037	0.00074	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0019	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0019	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0019	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0019	0.00078	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0019	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0019	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0019	0.00040	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00067	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB106-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0025	0.00034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0025	0.00038	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0025	0.00027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0025	0.00036	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0025	0.00043	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0025	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0012	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0012	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0012	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0012	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0012	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0012	0.00026	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0012	0.00020	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.00022	J	0.0012	0.00022	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0012	0.00044	0.0030	PFAS by ID SOP	
SB107-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0020	0.00028	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.00031	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0020	0.00022	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0020	0.00029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0020	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0010	0.00013	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0010	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0010	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0010	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0010	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0010	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0010	0.00021	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0010	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0010	0.00018	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0010	0.00036	0.0030	PFAS by ID SOP	
SB108-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0028	0.00039	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0028	0.00043	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0028	0.00030	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0028	0.00041	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0028	0.00049	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0028	0.00056	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0014	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0014	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0014	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0014	0.00058	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0014	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0014	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00026	J	0.0014	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00035	J	0.0014	0.00026	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0014	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0014	0.00030	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00069	J	0.0014	0.00022	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0014	0.00027	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0014	0.00024	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0014	0.00026	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.00038	J	0.0014	0.00025	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0026	J	0.0014	0.00050	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB108-2 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0022	0.00030	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0022	0.00034	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0022	0.00024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0022	0.00032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0022	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0022	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0011	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0011	0.00024	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND	0.0011	0.00039	0.0030	PFAS by ID SOP	
SB109-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0023	0.00031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0023	0.00035	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0023	0.00025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0023	0.00033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0023	0.00040	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0023	0.00045	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0011	0.00015	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0011	0.00026	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0011	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0011	0.00024	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0011	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND	0.0011	0.00021	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND	0.0011	0.00041	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB110-1 PID = 3 ppm Depth = 0 - 2.5 ft bg	GRO	ND	28.3	10.8	300	AK101
	<i>DRO</i>	<i>ND</i>	<i>1240</i>	<i>538</i>	250	AK102
	RRO	1500	1240	414	10000	AK103
	<i>1,2-Dibromoethane</i>	<i>ND</i>	<i>0.00124</i>	<i>0.000311</i>	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	<i>ND</i>	<i>J 0.00311</i>	<i>0.000303</i>	0.000031	8260D
	1,2,4-Trimethylbenzene	0.000265	J 0.00124	0.000262	0.61	8260D
	Acetone	0.138	J 0.0622	0.0257	38	8260D
	Benzene	ND	0.00124	0.000466	0.022	8260D
	Ethylbenzene	ND	0.00124	0.000373	0.13	8260D
	Toluene	ND	0.00622	0.00153	6.7	8260D
	Total Xylenes	ND	0.00373	0.000622	1.5	8260D
	<i>Vinyl chloride</i>	<i>ND</i>	<i>0.00124</i>	<i>0.000281</i>	<i>0.00080</i>	8260D
	All other VOCs	ND	Varies	Varies	Varies	8260D
	1-Methylnaphthalene	0.00618	J 0.0249	0.00558	0.41	8270D-SIM
	2-Methylnaphthalene	0.0148	J 0.0249	0.00531	1.3	8270D-SIM
	Anthracene	0.00310	J 0.00746	0.00286	390	8270D-SIM
	Benzo(a)anthracene	0.0103	0.00746	0.00215	0.70	8270D-SIM
	Benzo(a)pyrene	0.0168	0.00746	0.00223	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.0200	0.00746	0.00190	15	8270D-SIM
	Benzo(g,h,i)perylene	0.0287	0.00746	0.00220	2300	8270D-SIM
	Chrysene	0.00808	J 0.00746	0.00288	600	8270D-SIM
	Dibenz(a,h)anthracene	0.0114	0.00746	0.00214	1.5	8270D-SIM
	Fluoranthene	0.0158	0.00746	0.00282	590	8270D-SIM
	Indeno(1,2,3-cd)pyrene	0.0112	0.00746	0.00225	15	8270D-SIM
	Phenanthrene	0.0160	J 0.00746	0.00287	39	8270D-SIM
	Pyrene	0.0246	0.00746	0.00249	87	8270D-SIM
	All other PAHs	ND	Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J 0.0032	0.00044	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J 0.0032	0.00049	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J 0.0032	0.00034	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0032	0.00046	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0032	0.00055	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0032	0.00063	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0016	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0016	0.00035	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0016	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0016	0.00035	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0016	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0016	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0016	0.00066	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0016	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0016	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0016	0.00023	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0016	0.00029	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND	0.0016	0.00024	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	ND	0.0016	0.00034	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0016	0.00025	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0016	0.00030	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.0016	0.00027	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0016	0.00029	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.00030	J 0.0016	0.00028	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0052	J 0.0016	0.00057	0.0030	PFAS by ID SOP	
SB110-2 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0024	0.00033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0024	0.00037	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0024	0.00026	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0024	0.00035	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0024	0.00042	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0024	0.00048	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0012	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0012	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0012	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0012	0.00050	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0012	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0012	0.00026	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0012	0.00022	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND	0.0012	0.00021	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND	0.0012	0.00043	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB111-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0034	0.00047	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0034	0.00052	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0034	0.00037	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0034	0.00049	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0034	0.00059	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0034	0.00067	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0017	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0017	0.00038	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0017	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0017	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0017	0.00071	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0017	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0017	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0017	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0017	0.00036	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0017	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0017	0.00032	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0017	0.00029	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0017	0.00031	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0017	0.00030	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND		0.0017	0.00060	0.0030	PFAS by ID SOP
SB112-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		23.9	9.07	300	AK101
	DRO	ND		230	99.4	250	AK102
	RRO	ND		230	76.5	10000	AK103
	<i>1,2-Dibromoethane</i>	<i>ND</i>		<i>0.00115</i>	<i>0.000287</i>	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	<i>ND</i>		<i>0.00287</i>	<i>0.000280</i>	0.000031	8260D
	2-Butanone (MEK)	0.0153	J	0.0115	0.00537	15	8260D
	Acetone	0.247		0.0574	0.0238	38	8260D
	Benzene	0.00193		0.00115	0.000431	0.022	8260D
	Bromomethane	0.00152	J	0.00574	0.00134	0.024	8260D
	Ethylbenzene	ND		0.00115	0.000345	0.13	8260D
	Toluene	ND		0.00574	0.00141	6.7	8260D
	Total Xylenes	ND		0.00345	0.000574	1.5	8260D
	<i>Vinyl chloride</i>	<i>ND</i>	J	<i>0.00115</i>	0.000260	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	All PAHs	ND		Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0019	0.00026	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0019	0.00029	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0019	0.00020	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0019	0.00027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0019	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.00093	0.00012	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00093	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00093	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00093	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00093	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00093	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00093	0.00013	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00093	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00093	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00093	0.00020	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00093	0.00015	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00093	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	ND		0.00093	0.00017	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.00093	0.00016	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.00033	J	0.00093	0.00033	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB112-2 PID = 0 ppm Depth = 2.5 - 5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0023	0.00032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0023	0.00035	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0023	0.00025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0023	0.00033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0023	0.00040	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0023	0.00046	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0012	0.00015	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0012	0.00026	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0012	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0012	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0012	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0012	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0012	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0012	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0012	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0012	0.00025	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0012	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0012	0.00020	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0012	0.00041	0.0030	PFAS by ID SOP	
SB113-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0038	0.00051	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0038	0.00057	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0038	0.00041	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0038	0.00054	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0038	0.00065	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0038	0.00074	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0019	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0019	0.00042	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0019	0.00041	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0019	0.00078	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0019	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0019	0.00027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0019	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0019	0.00040	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0019	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0019	0.00032	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0019	0.00035	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0019	0.00033	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0019	0.00067	0.0030	PFAS by ID SOP	
SB114-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0022	0.00030	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0022	0.00034	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0022	0.00024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0022	0.00032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0022	0.00038	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0022	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00023	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0011	0.00039	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB114-3	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0024	0.00034	N/A	PFAS by ID SOP
Duplicate of SB114-1	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0024	0.00037	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0024	0.00027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0024	0.00035	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0024	0.00043	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0024	0.00048	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0012	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0012	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0012	0.00027	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0012	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0012	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0012	0.00026	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND		0.0012	0.00044	0.0030	PFAS by ID SOP
SB115-1	GRO	ND		81.8	30.9	300	AK101
PID = 0 ppm	DRO	274	J	578	250	250	AK102
Depth = 0 - 2.5 ft bg	RRO	2620		578	193	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND		0.00289	0.00123	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND		0.00289	0.000723	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND	J	0.00723	0.000706	0.000031	8260D
	Acetone	0.564	J	0.145	0.0599	38	8260D
	Benzene	ND		0.00289	0.00108	0.022	8260D
	<i>Chlorodibromomethane</i>	ND		0.00289	0.000648	0.0027	8260D
	<i>Chloroform</i>	ND		0.0145	0.00298	0.0071	8260D
	Ethylbenzene	ND		0.00289	0.000867	0.13	8260D
	Toluene	ND		0.0145	0.00356	6.7	8260D
	Total Xylenes	ND		0.00867	0.00145	1.5	8260D
	<i>Vinyl chloride</i>	ND		0.00289	0.000653	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Fluorene	0.0347	J	0.0173	0.00593	36	8270D-SIM
	<i>Naphthalene</i>	ND		0.0578	0.0118	0.038	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0022	0.00030	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0022	0.00033	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0022	0.00023	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0022	0.00031	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0022	0.00037	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0022	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00023	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.00049	J	0.0011	0.00038	0.0030	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB116-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0036	0.00050	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.0003062	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0036	0.00039	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0036	0.00052	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0036	0.00063	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0036	0.00071	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0018	0.00024	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0018	0.00040	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0018	0.00032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0018	0.00040	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0018	0.00034	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0018	0.00075	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0018	0.00029	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0018	0.00032	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0018	0.00026	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0018	0.00027	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0018	0.00038	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0018	0.00029	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0018	0.00034	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND		0.0018	0.00032	N/A	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND		0.0018	0.00064	0.0030	PFAS by ID SOP	
	SB117-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		25.2	9.59	300	AK101
		DRO	ND		252	109	250	AK102
RRO		265		252	84.1	10000	AK103	
<u>1,2-Dibromoethane</u>		ND		0.00126	0.000316	0.00024	8260D	
<u>1,2,3-Trichloropropane</u>		ND		0.00316	0.000308	0.000031	8260D	
2-Butanone (MEK)		0.0198	J	0.0126	0.00591	15	8260D	
4-Methyl-2-pentanone (MIBK)		0.00189	J	0.0126	0.00120	18	8260D	
Acetone		0.355		0.0631	0.0261	38	8260D	
Benzene		0.00246		0.00126	0.000473	0.022	8260D	
Bromomethane		0.00157	J	0.00631	0.00148	0.024	8260D	
Ethylbenzene		ND		0.00126	0.000379	0.13	8260D	
Toluene		ND		0.00631	0.00155	6.7	8260D	
Total Xylenes		ND		0.00379	0.000631	1.5	8260D	
Vinyl chloride		ND	J	0.00126	0.000285	0.00080	8260D	
All other VOCs		ND		Varies	Varies	Varies	8260D	
All PAHs		ND		Varies	Varies	Varies	8270D-SIM	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	J	0.0023	0.00032	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	J	0.0023	0.00035	N/A	PFAS by ID SOP	
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	J	0.0023	0.00025	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	J	0.0023	0.00033	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.0023	0.00040	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.0023	0.00046	N/A	PFAS by ID SOP	
Perfluoro-1-butanefulfonic acid (PFBS)		ND		0.0012	0.00015	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.0012	0.00026	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.0012	0.00020	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.0012	0.00026	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.0012	0.00020	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.0012	0.00022	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND		0.0012	0.00048	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND		0.0012	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.0012	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.0012	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.0012	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND		0.0012	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND		0.0012	0.00025	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.0012	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.0012	0.00022	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0012	0.00020	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0012	0.00021	N/A	PFAS by ID SOP		
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0012	0.00020	N/A	PFAS by ID SOP		
Perfluorooctanesulfonic acid (PFOS)	0.0010	J	0.0012	0.00041	0.0030	PFAS by ID SOP		

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB118-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0035	0.00048	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0035	0.00054	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0035	0.00038	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0035	0.00051	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0035	0.00061	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0035	0.00070	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0018	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0018	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0018	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0018	0.00073	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0018	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0018	0.00025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0018	0.00026	N/A	PFAS by ID SOP
	<i>Perfluoro-n-octanoic acid (PFOA)</i>	ND		0.0018	0.00038	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0018	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0018	0.00030	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0018	0.00031	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND		0.0018	0.00063	0.0030	PFAS by ID SOP	
SB119-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		7.97	3.03	300	AK101
	DRO	235	J	455	197	250	AK102
	RRO	2370		455	152	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND		0.00260	0.00110	0.0014	8260D
	<i>1,2-Dibromoethane</i>	ND		0.00260	0.000649	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.00649	0.000633	0.000031	8260D
	2-Butanone (MEK)	0.0239	J	0.0260	0.0122	15	8260D
	<i>2-Hexanone</i>	ND		5.00	0.787	0.11	8260D
	Acetone	0.376		0.130	0.0537	38	8260D
	Benzene	ND		0.00260	0.000975	0.022	8260D
	Chloroform	ND		0.0130	0.00266	0.0071	8260D
	Ethylbenzene	ND		0.00260	0.000779	0.13	8260D
	Toluene	ND		0.0130	0.00319	6.7	8260D
	Total Xylenes	ND		0.00779	0.00130	1.5	8260D
	Vinyl Acetate	ND		5.00	0.692	1.1	8260D
	Vinyl Chloride	ND	J	0.00260	0.000588	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Acenaphthylene	0.00874	J	0.0137	0.00492	18	8270D-SIM
	Anthracene	0.00631	J	0.0137	0.00524	390	8270D-SIM
	Benzo(A)Anthracene	0.0130	J	0.0137	0.00394	0.70	8270D-SIM
	Benzo(A)Pyrene	0.0110	J	0.0137	0.00408	1.5	8270D-SIM
	Benzo(B)Fluoranthene	0.0128	J	0.0137	0.00348	15	8270D-SIM
	Benzo(G,H,I)Perylene	0.00868	J	0.0137	0.00403	2300	8270D-SIM
	Chrysene	0.0107	J	0.0137	0.00528	600	8270D-SIM
	Fluoranthene	0.0462		0.0137	0.00517	590	8270D-SIM
	Fluorene	0.0121	J	0.0137	0.00467	36	8270D-SIM
	Indeno(1,2,3-Cd)Pyrene	0.00888	J	0.0137	0.00412	15	8270D-SIM
	Naphthalene	0.00975	J	0.0455	0.00929	0.038	8270D-SIM
	Phenanthrene	0.0663	J	0.0137	0.00526	39	8270D-SIM
	Pyrene	0.0323		0.0137	0.00455	87	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00023	0.000039	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00022	0.000076	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.072	J	0.0045	0.0015	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0048	J	0.00023	0.000062	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00022	0.000035	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00023	0.000092	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00024	0.000071	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00024	0.000060	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00024	0.000059	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00024	0.000056	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0034	J	0.00024	0.000057	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.0011	J	0.00021	0.000053	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.0019	J	0.00024	0.000052	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00024	0.000064	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	0.00024	J	0.00023	0.000060	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.015	J	0.00024	0.000054	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0037	J	0.00023	0.000060	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.020	J	0.00024	0.000072	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.019	J	0.00022	0.000053	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0094	J	0.00024	0.000068	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	0.00028	J	0.00023	0.000043	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.012	J	0.00024	0.000054	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	0.19	J	0.0044	0.0013	0.0030	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00024	0.000056	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	0.023	J	0.00024	0.000063	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0027	J	0.00023	0.000045	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00024	0.000077	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00024	0.000051	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	0.00080	J	0.00024	0.000067	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB120-1	GRO	ND		37.7	14.4	300	AK101
PID = 0 ppm	DRO	124	J	233	101	250	AK102
Depth = 0 - 2.5 ft bg	RRO	1110		233	77.7	10000	AK103
	<i>1,2-Dibromoethane</i>	<i>ND</i>		<i>0.00131</i>	<i>0.000327</i>	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	<i>ND</i>	J	<i>0.00327</i>	<i>0.000319</i>	0.000031	8260D
	1,2,4-Trimethylbenzene	0.000797	J	0.00131	0.000275	0.61	8260D
	2-Butanone (MEK)	0.0298	J	0.0131	0.00611	15	8260D
	Acetone	0.487	J	0.0653	0.0271	38	8260D
	Benzene	ND		0.00131	0.000490	0.022	8260D
	Ethylbenzene	ND		0.00131	0.000392	0.13	8260D
	Toluene	0.00161	J	0.00653	0.00161	6.7	8260D
	Total Xylenes	0.000906	J	0.00392	0.000653	1.5	8260D
	<i>Vinyl chloride</i>	<i>ND</i>		<i>0.00131</i>	<i>0.000295</i>	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Fluorene	0.00700	J	0.00700	0.00239	36	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00021	0.000036	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00021	0.000070	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.180	J	0.0042	0.0018	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0012	J	0.00021	0.000057	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00021	0.000032	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00021	0.000085	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00022	0.000065	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00022	0.000055	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00022	0.000054	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00022	0.000051	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.010	J	0.00022	0.000052	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.0064	J	0.00020	0.000049	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00093	J	0.00022	0.000048	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00022	0.000059	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00021	0.000056	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.040	J	0.0044	0.0015	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0053	J	0.00021	0.000055	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.069	J	0.0044	0.0012	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.056	J	0.0040	0.00097	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0092	J	0.00022	0.000063	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00021	0.000039	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.021	J	0.00022	0.000050	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.18	J	0.0041	0.0013	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00022	0.000052	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.077	J	0.0044	0.0013	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.010	J	0.00021	0.000041	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00022	0.000071	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00022	0.000047	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00022	0.000062	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB121-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	6.73	2.55	300	AK101	
	DRO	ND	402	174	250	AK102	
	RRO	888	402	134	10000	AK103	
		<i>1,1,2-Trichloroethane</i>	ND	0.00217	0.000922	0.0014	8260D
		<i>1,2-Dibromoethane</i>	ND	0.00217	0.000542	0.00024	8260D
		<i>1,2,3-Trichloropropane</i>	ND	0.00542	0.000530	0.000031	8260D
		2-Butanone (MEK)	0.0161	J 0.0217	0.0101	15	8260D
		<i>2-Hexanone</i>	ND	5.00	0.787	0.11	8260D
		Acetone	0.594	0.108	0.0450	38	8260D
		Benzene	ND	0.00217	0.000813	0.022	8260D
		Chloroform	ND	0.0108	0.00223	0.0071	8260D
		Ethylbenzene	ND	0.00217	0.000651	0.13	8260D
		Toluene	ND	0.0108	0.00267	6.7	8260D
		Total Xylenes	ND	0.00651	0.00108	1.5	8260D
		Vinyl Acetate	ND	5.00	0.692	1.1	8260D
		Vinyl Chloride	ND	J 0.00217	0.000490	0.00080	8260D
		All other VOCs	ND	Varies	Varies	Varies	8260D
		Naphthalene	ND	0.0402	0.00819	0.038	8270D-SIM
		All other PAHs	ND	Varies	Varies	Varies	8270D-SIM
		11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00026	0.000045	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00026	0.000088	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.180	J 0.00026	0.000089	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0039	J 0.00027	0.000072	N/A	PFAS by ID SOP
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00026	0.000040	N/A	PFAS by ID SOP
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00026	0.00011	N/A	PFAS by ID SOP
		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00028	0.000083	N/A	PFAS by ID SOP
		N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00028	0.000069	N/A	PFAS by ID SOP
		N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00028	0.000069	N/A	PFAS by ID SOP
		N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00028	0.000065	N/A	PFAS by ID SOP
		Perfluoro-n-butanoic acid (PFBA)	0.011	J 0.00028	0.000066	N/A	PFAS by ID SOP
		Perfluoro-1-butanefluoronic acid (PFBS)	0.0058	J 0.00025	0.000061	N/A	PFAS by ID SOP
		Perfluoro-n-decanoic acid (PFDA)	0.0023	J 0.00028	0.000060	N/A	PFAS by ID SOP
		Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00028	0.000074	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00027	0.000070	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	0.031	J 0.0028	0.00096	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0037	J 0.00026	0.000069	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.050	J 0.0028	0.00076	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.069	J 0.0025	0.00061	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	0.0065	J 0.00028	0.000080	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00027	0.000050	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	0.035	J 0.0028	0.00086	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.12	J 0.0026	0.00082	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00028	0.000065	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	0.049	J 0.00028	0.000066	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.011	J 0.00026	0.000052	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00028	0.000089	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00028	0.000059	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	0.00030	J 0.00028	0.000078	N/A	PFAS by ID SOP	
SB122-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000094	0.000032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000095	0.000026	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000099	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000099	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000087	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000099	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000099	0.000030	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000090	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000095	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000099	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00022	J 0.000091	0.000027	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	0.00016	J 0.000099	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000093	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000099	0.000032	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP		

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB122-3 Duplicate of SB122-1	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00011	J	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP		
Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP		
RPD = 72%	Perfluorooctanesulfonic acid (PFOS)	0.00053	J	0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
RPD = 29%	Perfluoro-n-pentanoic acid (PFPeA)	0.00013	J	0.00011	0.000030	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
SB123-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0011	J	0.00010	0.000034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000041	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	0.00015	J	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	0.00014	J	0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.00045	J	0.00011	0.000032	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	0.00011	J	0.00011	0.000031	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP		
Perfluoro-n-octanoic acid (PFOA)	0.00018	J	0.00011	0.000024	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.00012	J	0.00010	0.000030	0.0030	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP		
Perfluoro-n-pentanoic acid (PFPeA)	0.00072	J	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP		
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP		
SB124-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000094	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000025	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	0.00017	J	0.000098	0.000023	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00013	J	0.000087	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	0.00016	J	0.000098	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.00072	J	0.000098	0.000030	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00010	J	0.000090	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000018	N/A	PFAS by ID SOP		
Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP		
Perfluorooctanesulfonic acid (PFOS)	ND	0.000091	0.000027	0.0030	PFAS by ID SOP		
Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP		
Perfluoro-n-pentanoic acid (PFPeA)	0.0015	J	0.000098	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000093	0.000018	N/A	PFAS by ID SOP		
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000032	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP		

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB125-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00019	0.000033	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00019	0.000064	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0029	J	0.00019	0.000064	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0014	J	0.00019	0.000052	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00019	0.000029	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00019	0.000077	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00020	0.000060	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00020	0.000050	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00020	0.000050	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00020	0.000047	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0013	J	0.00020	0.000048	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00089	J	0.00018	0.000044	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00045	J	0.00020	0.000044	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00020	0.000054	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00019	0.000051	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0032	J	0.00020	0.000045	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00033	J	0.00019	0.000050	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0068	J	0.00020	0.000060	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0072	J	0.00018	0.000045	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00070	J	0.00020	0.000058	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00019	0.000036	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0022	J	0.00020	0.000045	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.019	J	0.00037	0.00011	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00020	0.000047	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0069	J	0.00020	0.000053	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0012	J	0.00019	0.000037	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00020	0.000065	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00020	0.000043	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	0.00045	J	0.00020	0.000057	N/A	PFAS by ID SOP
	SB126-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		8.44	3.20	300
DRO		248	J	492	213	250	AK102
RRO		3150		492	164	10000	AK103
<i>1,1,2-Trichloroethane</i>		ND		0.00278	0.00118	0.0014	8260D
<i>1,2-Dibromoethane</i>		ND		0.00278	0.000696	0.00024	8260D
<i>1,2,3-Trichloropropane</i>		ND		0.00696	0.000679	0.000031	8260D
2-Butanone (MEK)		0.0159	J	0.0278	0.0130	15	8260D
<i>2-Hexanone</i>		ND		5.00	0.787	0.11	8260D
Acetone		0.428	J	0.139	0.0576	38	8260D
Benzene		ND		0.00278	0.00104	0.022	8260D
<i>Chlorodibromomethane</i>		ND		0.00278	0.000622	0.0027	8260D
<i>Chloroform</i>		ND		0.0139	0.00285	0.0071	8260D
Ethylbenzene		ND		0.00278	0.000834	0.13	8260D
Toluene		ND		0.0139	0.00342	6.7	8260D
Total Xylenes		ND		0.00834	0.00139	1.5	8260D
<i>Vinyl Acetate</i>		ND		5.00	0.692	1.1	8260D
<i>Vinyl Chloride</i>		ND		0.00278	0.000627	0.00080	8260D
All other VOCs		ND		Varies	Varies	Varies	8260D
Fluorene		0.0132	J	0.0148	0.00504	36	8270D-SIM
<i>Naphthalene</i>		ND		0.0492	0.0100	0.038	8270D-SIM
All other PAHs		ND		Varies	Varies	Varies	8270D-SIM
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)		ND		0.00026	0.000045	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND		0.00026	0.000089	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		0.017	J	0.00027	0.000089	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		0.00089	J	0.00027	0.000072	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND		0.00026	0.000041	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND		0.00026	0.00011	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND		0.00028	0.000083	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.00028	0.000070	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.00028	0.000069	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.00028	0.000065	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		0.0049	J	0.00028	0.000066	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		0.0035	J	0.00025	0.000061	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		0.0010	J	0.00028	0.000061	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.00028	0.000074	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.00027	0.000070	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		0.014	J	0.00028	0.000063	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		0.0015	J	0.00027	0.000070	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		0.030	J	0.0028	0.00077	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.030	J	0.0025	0.00061	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		0.0030	J	0.00028	0.000080	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00027	0.000050	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		0.010	J	0.00028	0.000063	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.066	J	0.0026	0.00083	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00028	0.000066	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		0.036	J	0.0028	0.00080	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		0.0059	J	0.00026	0.000052	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00028	0.000090	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00028	0.000060	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDA)	0.00062	J	0.00028	0.000079	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB127-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00014	0.000024	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00014	0.000046	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00014	0.000046	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00014	0.000038	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00014	0.000021	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00014	0.000056	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00015	0.000043	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00015	0.000036	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00015	0.000036	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00015	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	0.00060	J	0.00015	0.000034	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	0.00088	J	0.00013	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00015	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00015	0.000039	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00014	0.000037	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00091	J	0.00015	0.000033	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00014	0.000036	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0023	J	0.00015	0.000044	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0012	J	0.00013	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00015	0.000042	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00014	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00015	0.000033	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND		0.00013	0.000040	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00015	0.000034	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0029	J	0.00015	0.000038	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00070	J	0.00014	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00015	0.000047	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00015	0.000031	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00015	0.000041	N/A	PFAS by ID SOP
	SB128-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00017	0.000046	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00017	0.000042	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00017	0.000076	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00018	0.000080	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00017	0.000046	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00017	0.000066	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00018	0.000051	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00018	0.000050	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00018	0.000074	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00018	0.000051	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00018	0.000052	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00016	0.000048	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00018	0.000042	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00018	0.000060	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00018	0.000052	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		0.00020	J	0.00018	0.000064	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.00017	0.000051	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		0.00046	J	0.00018	0.000050	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.00064	J	0.00017	0.000040	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.00018	0.000057	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00018	0.000064	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND		0.00018	0.000057	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.0017	J	0.00017	0.000054	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00018	0.000054	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		0.00041	J	0.00018	0.000052	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.00017	0.000044	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.00018	0.000063	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND		0.00018	0.000058	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.00018	0.000055	N/A	PFAS by ID SOP
SB129-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00012	0.000020	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00012	0.000040	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00012	0.000040	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00012	0.000033	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00012	0.000018	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00012	0.000048	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00013	0.000037	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00013	0.000031	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00013	0.000031	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00013	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00013	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00013	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00013	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00012	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00013	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00012	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00013	0.000038	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00013	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00012	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00013	0.000028	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00012	0.000035	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00013	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00013	0.000033	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00012	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00013	0.000040	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00013	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00013	0.000035	N/A	PFAS by ID SOP	

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB130-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00014	0.000024	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00014	0.000046	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.00014	0.000047	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.00014	0.000038	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00014	0.000021	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00014	0.000056	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00015	0.000043	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00015	0.000036	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00015	0.000036	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00015	0.000034	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.00027	J	0.00015	0.000035	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND		0.00013	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00015	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00015	0.000039	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00014	0.000037	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00033	J	0.00015	0.000033	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00014	0.000036	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00047	J	0.00015	0.000044	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00066	J	0.00013	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00015	0.000042	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00014	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00023	J	0.00015	0.000033	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.00046	J	0.00013	0.000041	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00015	0.000034	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00049	J	0.00015	0.000038	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00014	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00015	0.000047	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00015	0.000031	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00015	0.000041	N/A	PFAS by ID SOP
	SB131-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00015	0.000025	N/A
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND		0.00015	0.000049	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND		0.00015	0.000050	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND		0.00015	0.000040	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND		0.00014	0.000023	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND		0.00015	0.000060	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND		0.00016	0.000046	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.00016	0.000039	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.00016	0.000038	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.00016	0.000036	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND		0.00016	0.000037	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		ND		0.00014	0.000034	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND		0.00016	0.000034	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.00016	0.000041	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.00015	0.000039	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.00016	0.000035	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.00015	0.000039	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.00016	0.000047	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.0012	J	0.00014	0.000035	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.00016	0.000044	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00015	0.000028	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND		0.00016	0.000035	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.0022	J	0.00014	0.000043	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00016	0.000037	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.00016	0.000041	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		0.00015	J	0.00015	0.000029	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.00016	0.000050	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND		0.00016	0.000033	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.00016	0.000044	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB132-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	4.33	1.64	300	AK101	
	DRO	ND	346	150	250	AK102	
	RRO	ND	346	115	10000	AK103	
		<i>1,1,2-Trichloroethane</i>	ND	0.00213	0.000905	0.0014	8260D
		<i>1,2-Dibromoethane</i>	ND	0.00213	0.000533	0.00024	8260D
		<i>1,2,3-Trichloropropane</i>	ND	0.00533	0.000519	0.000031	8260D
		2-Butanone (MEK)	0.0879	J 0.0213	0.00997	15	8260D
		<i>2-Hexanone</i>	ND	5.00	0.787	0.11	8260D
		4-Methyl-2-Pentanone (MIBK)	0.0139	J 0.0213	0.00203	18	8260D
		Acetone	1.99	J 0.106	0.0441	38	8260D
		Benzene	ND	0.00213	0.000798	0.022	8260D
		<i>Chloroform</i>	ND	0.0106	0.00220	0.0071	8260D
		Ethylbenzene	ND	0.00213	0.000639	0.13	8260D
		P-Isopropyltoluene	0.000464	J 0.00213	0.000435	N/A	8260D
		Toluene	ND	0.0106	0.00261	6.7	8260D
		Total Xylenes	ND	0.00639	0.00106	1.5	8260D
		<i>Vinyl Acetate</i>	ND	5.00	0.692	1.1	8260D
		<i>Vinyl Chloride</i>	ND	0.00213	0.000481	0.00080	8260D
		All other VOCs	ND	Varies	Varies	Varies	8260D
		All PAHs	ND	Varies	Varies	Varies	8270D-SIM
		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000092	0.000016	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000091	0.000031	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000093	0.000031	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP
		9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000091	0.000014	N/A	PFAS by ID SOP
		4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000092	0.000038	N/A	PFAS by ID SOP
		Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP
		N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP
		N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP
		N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP
		Perfluoro-n-butanoic acid (PFBA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP
		Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000087	0.000022	N/A	PFAS by ID SOP
		Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000098	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000093	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000089	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000090	0.000027	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000092	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000098	0.000027	N/A	PFAS by ID SOP	
SB133-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00013	0.000023	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00013	0.000045	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00014	0.000046	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00014	0.000037	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00013	0.000021	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00013	0.000055	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00014	0.000042	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00014	0.000036	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00014	0.000035	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00014	0.000033	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00014	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00013	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00014	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00014	0.000038	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00014	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00014	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00014	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00014	0.000043	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00019	J 0.00013	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00014	0.000041	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00014	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00014	0.000032	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00063	J 0.00013	0.000040	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00014	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	0.00020	J 0.00014	0.000038	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00013	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00014	0.000046	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00014	0.000031	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00014	0.000040	N/A	PFAS by ID SOP		

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method		
SB133-3 Duplicate of SB133-1	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00012	0.000021	N/A	PFAS by ID SOP		
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00012	0.000042	N/A	PFAS by ID SOP		
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00013	0.000042	N/A	PFAS by ID SOP		
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00013	0.000034	N/A	PFAS by ID SOP		
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00012	0.000019	N/A	PFAS by ID SOP		
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00013	0.000051	N/A	PFAS by ID SOP		
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00013	0.000039	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00013	0.000033	N/A	PFAS by ID SOP		
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00013	0.000033	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00013	0.000031	N/A	PFAS by ID SOP		
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00013	0.000031	N/A	PFAS by ID SOP		
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.00012	0.000029	N/A	PFAS by ID SOP		
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00013	0.000029	N/A	PFAS by ID SOP		
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00013	0.000035	N/A	PFAS by ID SOP		
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00013	0.000033	N/A	PFAS by ID SOP		
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00013	0.000030	N/A	PFAS by ID SOP		
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00013	0.000033	N/A	PFAS by ID SOP		
	Perfluoro-n-hexanoic acid (PFHxA)	0.00013	J	0.00013	0.000040	N/A	PFAS by ID SOP	
	RPD = 21%	Perfluorohexanesulfonic acid (PFHxS)	0.00021	J	0.00012	0.000029	N/A	PFAS by ID SOP
		Perfluoro-n-nonanoic acid (PFNA)	ND	0.00013	0.000038	N/A	PFAS by ID SOP	
		Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00013	0.000024	N/A	PFAS by ID SOP	
		Perfluoro-n-octanoic acid (PFOA)	ND	0.00013	0.000030	0.0017	PFAS by ID SOP	
	RPD = 75%	Perfluorooctanesulfonic acid (PFOS)	0.00027	J	0.00012	0.000037	0.0030	PFAS by ID SOP
		Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00013	0.000031	N/A	PFAS by ID SOP	
	RPD = 7%	Perfluoro-n-pentanoic acid (PFPeA)	0.00020	J	0.00013	0.000035	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00012	0.000025	N/A	PFAS by ID SOP		
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00013	0.000042	N/A	PFAS by ID SOP		
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00013	0.000028	N/A	PFAS by ID SOP		
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00013	0.000037	N/A	PFAS by ID SOP		
SB134-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP		
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP		
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP		
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP		
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP		
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000041	N/A	PFAS by ID SOP		
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP		
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP		
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP		
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP		
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP		
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP		
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP		
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP		
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP		
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP		
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP		
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP		
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP		
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000024	0.0017	PFAS by ID SOP		
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000030	0.0030	PFAS by ID SOP		
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP		
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP		
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP			
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP			
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP			
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP			
SB134-3 Duplicate of SB134-1	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP		
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP		
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP		
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP		
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP		
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP		
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP		
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP		
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP		
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP		
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP		
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP		
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP		
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP		
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP		
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP		
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP		
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP		
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP		
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP		
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP		
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP		
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP		
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP		
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000021	N/A	PFAS by ID SOP			
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP			
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP			
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP			

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB135-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00011	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000026	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
SB136-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000041	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000024	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00012	J	0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
SB137-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00011	J	0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB138-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP		
SB139-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000030	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP		
SB140-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00015	J	0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP		

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB141-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00011	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butan-sulfonic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000026	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	SB142-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00010	0.000035	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00011	0.000035	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00010	0.000016	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00010	0.000043	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00011	0.000033	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-butan-sulfonic acid (PFBS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00011	0.000033	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		ND	0.00010	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00011	0.000032	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00011	0.000020	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.00015	J	0.00010	0.000031	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00010	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00011	0.000036	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00011	0.000031	N/A	PFAS by ID SOP	
SB143-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00012	0.000021	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00012	0.000041	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00012	0.000041	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00012	0.000033	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00012	0.000019	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00012	0.000049	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00013	0.000038	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00013	0.000032	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00013	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00013	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00013	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-butan-sulfonic acid (PFBS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00013	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00013	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00012	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00013	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00012	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00013	0.000039	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00012	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00013	0.000037	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00012	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00013	0.000029	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00012	0.000036	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00013	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00013	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00012	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00013	0.000041	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00013	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00013	0.000036	N/A	PFAS by ID SOP	

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB144-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000094	0.000032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000095	0.000026	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000099	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000099	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.000088	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000099	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000099	0.000030	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000090	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000095	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000099	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000091	0.000027	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000093	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000099	0.000032	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUDa)	ND	0.000099	0.000028	N/A	PFAS by ID SOP		
SB145-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000093	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000025	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.000087	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000098	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000093	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000098	0.000030	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000090	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000091	0.000027	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000093	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000032	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUDa)	ND	0.000098	0.000028	N/A	PFAS by ID SOP		
SB146-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00013	0.000022	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00013	0.000044	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00013	0.000044	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00013	0.000036	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00013	0.000020	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00013	0.000053	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00014	0.000041	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00014	0.000034	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00014	0.000034	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00014	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00014	0.000033	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.00012	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00014	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00014	0.000037	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00013	0.000035	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00014	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00013	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00014	0.000041	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00037	J	0.00013	0.000031	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00014	0.000039	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00013	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00014	0.000031	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00054	J	0.00013	0.000038	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00014	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	0.00021	J	0.00014	0.000036	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00013	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00014	0.000044	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00014	0.000030	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUDa)	ND	0.00014	0.000039	N/A	PFAS by ID SOP		

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB147-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000091	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000090	0.000031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000093	0.000025	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000090	0.000014	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000091	0.000037	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000097	0.000029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000097	0.000024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000097	0.000024	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000097	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000097	0.000023	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000086	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000097	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000097	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000093	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000097	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000092	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000097	0.000029	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000088	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000097	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000093	0.000017	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000097	0.000022	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000089	0.000027	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000097	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000097	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000091	0.000018	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000097	0.000031	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000097	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000097	0.000027	N/A	PFAS by ID SOP	
SB148-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000094	0.000032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000095	0.000026	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000099	0.000029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000099	0.000024	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000087	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000099	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000099	0.000030	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000090	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000095	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000099	0.000022	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000091	0.000027	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000093	0.000018	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000099	0.000032	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP	
SB149-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000021	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB149-3 Duplicate of SB149-1	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000015	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000040	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00010	0.000031	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000092	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00010	0.000031	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00010	0.000030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00010	0.000024	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000029	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00010	0.000033	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00010	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00010	0.000029	N/A	PFAS by ID SOP
	SB150-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00010	0.000035	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00010	0.000035	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00010	0.000028	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00010	0.000016	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00010	0.000042	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00011	0.000032	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND	0.00011	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00011	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00010	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00011	0.000033	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00011	0.000031	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00010	0.000020	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		ND	0.00011	0.000025	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		ND	0.00010	0.000030	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00010	0.000020	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00011	0.000035	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND	0.00011	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00011	0.000031	N/A	PFAS by ID SOP
SB151-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB152-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00018	J	0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
SB153-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000030	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
SB154-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000092	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000091	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000093	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000091	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000092	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.000086	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000098	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000093	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.00020	J	0.000098	0.000029	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00032	J	0.000089	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000017	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00011	J	0.000090	0.000027	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	0.00022	J	0.000098	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000092	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000098	0.000027	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

BGES, INC.

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB155-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000092	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000093	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000091	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.000087	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000098	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000093	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000089	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000091	0.000027	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000092	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000031	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP		
SB156-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	3.93	1.50	300	AK101	
	DRO	ND	243	105	250	AK102	
	RRO	140	J	243	81.1	10000	AK103
	<u>1,2-Dibromoethane</u>	<u>ND</u>		<u>0.00123</u>	<u>0.000308</u>	0.00024	8260D
	<u>1,2,3-Trichloropropane</u>	<u>ND</u>		<u>0.00308</u>	<u>0.000299</u>	0.000031	8260D
	2-Butanone (MEK)	0.0331	J	0.0123	0.00576	15	8260D
	<u>2-Hexanone</u>	<u>ND</u>		<u>5.00</u>	<u>0.787</u>	0.11	8260D
	Acetone	0.736	J	0.0615	0.0254	38	8260D
	Benzene	ND		0.00123	0.000461	0.022	8260D
	Ethylbenzene	ND		0.00123	0.000369	0.13	8260D
	Toluene	ND		0.00615	0.00151	6.7	8260D
	Total Xylenes	ND		0.00369	0.000615	1.5	8260D
	Vinyl Acetate	ND		5.00	0.692	1.1	8260D
	Vinyl Chloride	ND		0.00123	0.000278	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	Benzo(A)Anthracene	0.00351	J	0.00730	0.00211	0.70	8270D-SIM
	Benzo(A)Pyrene	0.00447	J	0.00730	0.00218	1.5	8270D-SIM
	Benzo(B)Fluoranthene	0.00668	J	0.00730	0.00186	15	8270D-SIM
	Benzo(G,H,I)Perylene	0.00409	J	0.00730	0.00215	2300	8270D-SIM
	Chrysene	0.00469	J	0.00730	0.00282	600	8270D-SIM
	Fluoranthene	0.0127		0.00730	0.00276	590	8270D-SIM
	Indeno(1,2,3-Cd)Pyrene	0.00416	J	0.00730	0.00220	15	8270D-SIM
	Phenanthrene	0.00509	J	0.00730	0.00281	39	8270D-SIM
	Pyrene	0.00917		0.00730	0.00243	87	8270D-SIM
	All other PAHs	ND		Varies	Varies	Varies	8270D-SIM
	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.000094	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.000093	0.000032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.000095	0.000032	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.000096	0.000026	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.000093	0.000014	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.000094	0.000038	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00010	0.000030	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00010	0.000025	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00010	0.000025	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.00010	J	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.000088	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00010	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.000096	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00010	0.000022	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.000095	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00010	0.000030	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.000091	0.000022	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND		0.00010	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.000096	0.000018	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	0.00017	J	0.00010	0.000023	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.00021	J	0.000092	0.000028	0.0030	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00010	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00010	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.000094	0.000019	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00010	0.000032	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00010	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00010	0.000028	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB156-3 Duplicate of SB156-1	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000091	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000090	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000091	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000092	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000090	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000091	0.000037	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000096	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000096	0.000024	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000096	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000096	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000096	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000085	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000096	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000096	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000093	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000096	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000091	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000096	0.000029	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000088	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000096	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000092	0.000017	N/A	PFAS by ID SOP	
	RPD = 12% RPD = 0%	Perfluoro-n-octanoic acid (PFOA)	0.00015	J 0.000096	0.000022	0.0017	PFAS by ID SOP
		Perfluorooctanesulfonic acid (PFOS)	0.00021	J 0.000089	0.000027	0.0030	PFAS by ID SOP
		Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000096	0.000023	N/A	PFAS by ID SOP
		Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000096	0.000025	N/A	PFAS by ID SOP
		Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000091	0.000018	N/A	PFAS by ID SOP
		Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000096	0.000031	N/A	PFAS by ID SOP
		Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000096	0.000021	N/A	PFAS by ID SOP
		Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000096	0.000027	N/A	PFAS by ID SOP
	SB157-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.000092	0.000031	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.000093	0.000031	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.000094	0.000025	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.000092	0.000014	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.000093	0.000038	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.000098	0.000029	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.000098	0.000024	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.000098	0.000024	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.000098	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.000098	0.000023	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.000087	0.000022	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.000098	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.000098	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.000095	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.000098	0.000022	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.000093	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.000098	0.000030	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		ND	0.000090	0.000022	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND	0.000098	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.000094	0.000018	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.00020	J 0.000091	0.000027	0.0030	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.000098	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.000098	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.000092	0.000018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.000098	0.000032	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND	0.000098	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.000098	0.000028	N/A	PFAS by ID SOP	
SB158-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000093	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000087	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000098	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000093	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000098	0.000030	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000090	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000091	0.000027	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000092	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB159-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000093	0.000032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000094	0.000032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000095	0.000026	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000094	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000099	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000099	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000088	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000099	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000096	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000099	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000099	0.000030	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000090	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000095	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000099	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000092	0.000028	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000093	0.000018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000099	0.000032	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP		
SB160-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000092	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000093	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000091	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000087	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000095	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000098	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000093	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000089	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.000091	0.000027	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000092	0.000018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000031	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP		
SB161-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000092	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000091	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000093	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000091	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000092	0.000037	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000098	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000086	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000098	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000093	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000098	0.000029	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000089	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000098	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000094	0.000017	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.000098	0.000022	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00013	J	0.000090	0.000027	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.000098	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000098	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000092	0.000018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000098	0.000031	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000098	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000098	0.000027	N/A	PFAS by ID SOP		

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB162-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000093	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000092	0.000031	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000094	0.000032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000095	0.000026	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000092	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000093	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000099	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000099	0.000024	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	0.00029	J	0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND		0.000088	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.000099	0.000021	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.000099	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.000095	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00019	J	0.000099	0.000022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.000094	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00017	J	0.000099	0.000030	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00048	J	0.000090	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00010	J	0.000099	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	0.00016	J	0.000095	0.000018	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00015	J	0.000099	0.000022	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.00029	J	0.000091	0.000027	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00022	J	0.000099	0.000026	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.000093	0.000018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.000099	0.000032	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.000099	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.000099	0.000028	N/A	PFAS by ID SOP	
SB163-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.000094	0.000016	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.000093	0.000032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.000094	0.000032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.000095	0.000026	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.000093	0.000014	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.000094	0.000038	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.000099	0.000029	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.000099	0.000025	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.000099	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.000099	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000088	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.000099	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.000096	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.000099	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.000094	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.000099	0.000030	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000090	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.000095	0.000018	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	0.00010	J	0.000099	0.000022	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.000093	J	0.000092	0.000028	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.000099	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.000099	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.000093	0.000018	N/A	PFAS by ID SOP		
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.000099	0.000032	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.000099	0.000021	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.000099	0.000028	N/A	PFAS by ID SOP		
SB164-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000042	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP		
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000035	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP		
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP		

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB165-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000041	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000024	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00016	J	0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	SB166-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00010	0.000034	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00010	0.000034	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00010	0.000027	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00010	0.000015	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00010	0.000041	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00011	0.000031	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00011	0.000026	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-1-butanefulfonic acid (PFBS)		ND	0.000094	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00011	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00010	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00010	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00011	0.000032	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		ND	0.00010	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00011	0.000030	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00010	0.000019	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND	0.00011	0.000024	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		ND	0.00010	0.000029	0.0030	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00010	0.000020	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00011	0.000034	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND	0.00011	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00011	0.000030	N/A	PFAS by ID SOP	
SB167-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		11-Chloroeicosafiuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00038	J	0.00010	0.000031	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB168-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroicosafuoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoro sulfonic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUDA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	SB181-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	3.04	1.15	300	AK101
DRO		ND	243	105	250	AK102	
RRO		ND	243	80.9	10000	AK103	
<u>1,2-Dibromoethane</u>		<u>ND</u>	<u>0.00122</u>	<u>0.000304</u>	0.00024	8260D	
<u>1,2,3-Trichloropropane</u>		<u>ND</u>	<u>0.00304</u>	<u>0.000297</u>	0.000031	8260D	
2-Butanone (MEK)		0.0374	J	0.0122	0.00569	15	8260D
Acetone		0.709		0.0608	0.0252	38	8260D
Benzene		ND		0.00122	0.000456	0.022	8260D
Ethylbenzene		ND		0.00122	0.000365	0.13	8260D
Toluene		ND		0.00608	0.00149	6.7	8260D
Total Xylenes		ND		0.00365	0.000608	1.5	8260D
Vinyl chloride		ND		0.00122	0.000275	0.00080	8260D
All other VOCs		ND		Varies	Varies	Varies	8260D
All PAHs	ND		Varies	Varies	Varies	8270D-SIM	
SB181-3 Duplicate of SB181-1 RPD = 73% RPD = 11%	GRO	ND	3.16	1.20	300	AK101	
	DRO	ND	253	110	250	AK102	
	RRO	ND	253	84.3	10000	AK103	
	<u>1,2-Dibromoethane</u>	<u>ND</u>	<u>0.00127</u>	<u>0.000316</u>	0.00024	8260D	
	<u>1,2,3-Trichloropropane</u>	<u>ND</u>	<u>0.00316</u>	<u>0.000309</u>	0.000031	8260D	
	2-Butanone (MEK)	0.0173	J	0.0127	0.00592	15	8260D
	Acetone	0.635		0.0633	0.0262	38	8260D
	Benzene	ND		0.00127	0.000474	0.022	8260D
	Ethylbenzene	ND		0.00127	0.000380	0.13	8260D
	Toluene	ND		0.00633	0.00156	6.7	8260D
	Total Xylenes	ND		0.00380	0.000633	1.5	8260D
	Vinyl chloride	ND		0.00127	0.000286	0.00080	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
All PAHs	ND		Varies	Varies	Varies	8270D-SIM	
SB181-2 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0020	0.00028	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0089	J	0.0020	0.00031	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0020	0.00022	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0020	0.00029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0020	0.00035	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0020	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoro sulfonic acid (PFBS)	0.00029	J	0.0010	0.00013	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0010	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00018	J	0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0010	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00022	J	0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.00093	J	0.0010	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.00077	J	0.0010	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0028	J	0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0010	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00061	J	0.0010	0.00022	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0035	J	0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0010	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUDA)	ND		0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0016	J	0.0010	0.00018	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	0.0038	J	0.0010	0.00036	0.0030	PFAS by ID SOP	

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB181-4						
Duplicate of SB181-2						
RPD = 30%	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0021	0.00028	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.012	J 0.0021	0.00032	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0021	0.00022	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0021	0.00030	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0021	0.00036	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0021	0.00041	N/A	PFAS by ID SOP
RPD = 7%	Perfluoro-1-butanefulfonic acid (PFBS)	0.00031	J 0.0010	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0010	0.00023	N/A	PFAS by ID SOP
RPD = 59%	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00033	J 0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0010	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0010	0.00018	N/A	PFAS by ID SOP
RPD = 31%	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00030	J 0.0010	0.00019	N/A	PFAS by ID SOP
RPD = 6%	Perfluoro-n-butanoic acid (PFBA)	0.00088	J 0.0010	0.00043	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0010	0.00018	N/A	PFAS by ID SOP
RPD = 17%	Perfluoro-n-heptanoic acid (PFHpA)	0.00065	J 0.0010	0.00015	N/A	PFAS by ID SOP
RPD = 4%	Perfluoro-n-hexanoic acid (PFHxA)	0.0029	J 0.0010	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0010	0.00015	N/A	PFAS by ID SOP
RPD = 29%	Perfluoro-n-octanoic acid (PFOA)	0.00082	J 0.0010	0.00022	0.0017	PFAS by ID SOP
RPD = 6%	Perfluoro-n-pentanoic acid (PFPeA)	0.0037	J 0.0010	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0010	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0010	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0010	0.00019	N/A	PFAS by ID SOP
RPD = 32%	Perfluorohexanesulfonic acid (PFHxS)	0.0022	J 0.0010	0.00018	N/A	PFAS by ID SOP
RPD = 57%	Perfluorooctanesulfonic acid (PFOS)	0.0068	J 0.0010	0.00037	0.0030	PFAS by ID SOP
SB186-1	GRO	ND	3.30	1.26	300	AK101
PID = 0 ppm	DRO	ND	254	110	250	AK102
Depth = 0 - 2.5 ft bg	RRO	245	J 254	84.6	10000	AK103
	<i>1,2-Dibromoethane</i>	ND	0.00127	0.000318	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND	J 0.00318	0.000310	0.000031	8260D
	2-Butanone (MEK)	0.00708	J 0.0127	0.00595	15	8260D
	Acetone	0.283	0.0635	0.0263	38	8260D
	Benzene	ND	0.00127	0.000477	0.022	8260D
	Ethylbenzene	ND	0.00127	0.000381	0.13	8260D
	Toluene	ND	0.00635	0.00156	6.7	8260D
	Total Xylenes	ND	0.00381	0.000635	1.5	8260D
	<i>Vinyl chloride</i>	ND	0.00127	0.000287	0.00080	8260D
	All other VOCs	ND	Varies	Varies	Varies	8260D
	All PAHs	ND	Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0025	0.00034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.023	J 0.0025	0.00038	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0025	0.00027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0025	0.00036	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0025	0.00043	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0025	0.00049	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	0.00097	J 0.0012	0.00016	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0012	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0044	J 0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0012	0.00028	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00093	J 0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0027	J 0.0012	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0012	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0015	J 0.0012	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0064	J 0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00036	J 0.0012	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0047	J 0.0012	0.00027	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0094	J 0.0012	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0012	0.00024	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0012	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0012	0.00023	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0071	J 0.0012	0.00022	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.085	J 0.0012	0.00045	0.0030	PFAS by ID SOP

TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB187-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND	2.99	1.14	300	AK101
	DRO	ND	239	104	250	AK102
	RRO	ND	239	79.7	10000	AK103
	<i>1,2-Dibromoethane</i>	ND	0.00120	0.000299	0.00024	8260D
	<i>1,2,3-Trichloropropane</i>	ND	0.00299	0.000292	0.000031	8260D
	2-Butanone (MEK)	0.0208	J 0.0120	0.00560	15	8260D
	Acetone	0.306	0.0598	0.0248	38	8260D
	Benzene	0.00557	0.00120	0.000449	0.022	8260D
	Bromomethane	0.00208	J 0.00598	0.00140	0.024	8260D
	Ethylbenzene	ND	0.00120	0.000359	0.13	8260D
	Toluene	ND	0.00598	0.00147	6.7	8260D
	Total Xylenes	ND	0.00359	0.000598	1.5	8260D
	<i>Vinyl chloride</i>	ND	J 0.00120	0.000270	0.00080	8260D
	All other VOCs	ND	Varies	Varies	Varies	8260D
	All PAHs	ND	Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0022	0.00030	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0075	J 0.0022	0.00034	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0022	0.00024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0022	0.00032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0022	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0022	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-butanesulfonic acid (PFBS)	0.00031	J 0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00048	J 0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00038	J 0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0012	J 0.0011	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0011	0.00017	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)	0.0011	J 0.0011	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	0.0036	J 0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND	0.0011	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	0.0016	J 0.0011	0.00024	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	0.0052	J 0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.0048	J 0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0037	J 0.0011	0.00039	0.0030	PFAS by ID SOP	
SB188-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J 0.0020	0.00027	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.033	J 0.0019	0.00030	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J 0.0020	0.00021	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J 0.0020	0.00029	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0020	0.00034	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0020	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-butanesulfonic acid (PFBS)	0.00095	J 0.00099	0.00013	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00099	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0079	J 0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00099	0.00022	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00072	J 0.00099	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0020	J 0.00099	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00099	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0012	J 0.00099	0.00014	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0054	J 0.00099	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00099	0.00015	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0043	J 0.00099	0.00021	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0070	J 0.00099	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00099	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00099	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00099	0.00018	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)	0.0063	J 0.00099	0.00017	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.033	J 0.00099	0.00035	0.0030	PFAS by ID SOP	

**TABLE 5
HOM11-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB189-1	GRO	ND		4.50	1.71	300	AK101
PID = 0 ppm	DRO	ND		335	145	250	AK102
Depth = 0 - 2.5 ft bg	RRO	518		335	112	10000	AK103
	<i>1,1,2-Trichloroethane</i>	ND		<i>0.00168</i>	<i>0.000713</i>	<i>0.0014</i>	8260D
	<i>1,2-Dibromoethane</i>	ND		<i>0.00168</i>	<i>0.000419</i>	<i>0.00024</i>	8260D
	<i>1,2,3-Trichloropropane</i>	ND		<i>0.00419</i>	<i>0.000409</i>	<i>0.000031</i>	8260D
	1,2,4-Trimethylbenzene	0.000382	J	0.00168	0.000354	0.61	8260D
	2-Butanone (MEK)	0.0387	J	0.0168	0.00785	15	8260D
	Acetone	0.797		0.0839	0.0347	38	8260D
	Benzene	0.00829		0.00168	0.000629	0.022	8260D
	Bromomethane	0.00295	J	0.00839	0.00196	0.024	8260D
	<i>Chloroform</i>	ND		<i>0.00839</i>	<i>0.00173</i>	<i>0.0071</i>	8260D
	Ethylbenzene	ND		0.00168	0.000503	0.13	8260D
	Toluene	ND		0.00839	0.00206	6.7	8260D
	Total Xylenes	ND		0.00503	0.000839	1.5	8260D
	<i>Vinyl chloride</i>	ND	J	<i>0.00168</i>	<i>0.000379</i>	<i>0.00080</i>	8260D
	All other VOCs	ND		Varies	Varies	Varies	8260D
	All PAHs	ND		Varies	Varies	Varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0022	0.00030	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.032	J	0.0022	0.00033	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0022	0.00024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0022	0.00032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0022	0.00038	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0022	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-butanesulfonic acid (PFBS)	0.00062	J	0.0011	0.00014	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.0011	J	0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00071	J	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	0.0022	J	0.0011	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	0.00020	J	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0022	J	0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.0047	J	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.0013	J	0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.0037	J	0.0011	0.00023	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.0067	J	0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0085	J	0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.069	J	0.0011	0.00039	0.0030	PFAS by ID SOP

¹ Soil cleanup criteria for VOCs and PAHs are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Migration to Groundwater values (November 18, 2021) except for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenzo[a,h]anthracene, and indeno[1,2,3-cd]pyrene; which are obtained from the more stringent Under 40-inch zone (referring to annual precipitation) human health pathway (November 18, 2021).

Soil cleanup criteria for PFOS and PFOA are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021). Soil cleanup criteria for GRO, and DRO are obtained from Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021). Soil cleanup criterion for RRO is obtained from the Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation) ingestion value.

Samples were analyzed for VOCs by EPA Method 8260D, for PAHs by EPA 8270D-SIM, for GRO by AK 101, for DRO by AK 102, and for RRO by AK 103.

Samples were analyzed for PFAS by Isotope Dilution pursuant to LC/MS/MS Quality Systems Manual (QSM) 5.3 Table B-15.

ADEC = Alaska Department of Environmental Conservation; PID = photoionization detector; ppm = parts per million; EPA = Environmental Protection Agency
DRO = diesel range organics; GRO = gasoline range organics; RRO = residual range organics; PAHs = polynuclear aromatic hydrocarbons;
VOCs = volatile organic compounds; RDL = reporting detection limit; MDL = method detection limit; ND = not detectable, AK = Alaska method;
mg/Kg = milligrams per kilogram; PFAS = per- and polyfluoroalkyl substances; bg = below grade; ft = feet

Bold = The concentration exceeds the applicable ADEC cleanup criterion.
Italics = The RDL and/or MDL exceeds the applicable ADEC cleanup criterion and the analyte is not detected.
Underline = The RDL and MDL exceed the applicable ADEC cleanup criterion and the analyte is not detected.

TABLE 6
 HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
 HOMER AIRPORT
 HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB9-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0020	0.00027	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0018	0.00027	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0018	0.00019	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0018	0.00026	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0018	0.00035	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.00089	0.00012	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00089	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00089	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00089	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00089	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00089	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00089	0.00037	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	0.00022	J	0.00089	0.00014	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00089	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00089	0.00013	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00089	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	0.00013	J	0.00089	0.00013	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	0.00027	J	0.00089	0.00019	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00089	0.00014	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00089	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00089	0.00015	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	0.00019	J	0.00089	0.00016	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00045	J	0.00089	0.00016	N/A	PFAS by ID SOP	
		Perfluorooctanesulfonic acid (PFOS)	0.0042		0.00089	0.00032	0.0030	PFAS by ID SOP
	SB9-3 Duplicate of SB9-1	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0020	0.00027	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0020	0.00030	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)		ND		0.0020	0.00021	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	J	0.0020	0.00029	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.0020	0.00034	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.0020	0.00039	N/A	PFAS by ID SOP	
Perfluoro-1-butanefulfonic acid (PFBS)		ND		0.00099	0.00013	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.00099	0.00022	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.00099	0.00017	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00099	0.00022	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00099	0.00017	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.00099	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND		0.00099	0.00041	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND		0.00099	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.00099	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.00099	0.00014	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.00099	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND		0.00099	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND		0.00099	0.00021	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.00099	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.00099	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND		0.00099	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.00099	0.00018	N/A	PFAS by ID SOP	
RPD = 37%		Perfluorohexanesulfonic acid (PFHxS)	0.00031	J	0.00099	0.00017	N/A	PFAS by ID SOP
RPD = 47%		Perfluorooctanesulfonic acid (PFOS)	0.0026		0.00099	0.00035	0.0030	PFAS by ID SOP
SB10-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		11-Chlorocosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00020	0.000035	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00020	0.000068	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.00020	0.000069	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.00021	0.000055	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00020	0.000031	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00020	0.000082	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00021	0.000064	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00021	0.000053	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00021	0.000053	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00021	0.000050	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	0.00099	J	0.00021	0.000051	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	0.00094		0.00019	0.000047	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00021	0.000046	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00021	0.000057	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00021	0.000054	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	0.0019	J	0.00021	0.000048	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00099	J	0.00020	0.000054	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.0054	J	0.00021	0.000064	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.037	J	0.0019	0.00048	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	0.00050	J	0.00021	0.000061	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	0.00080	J	0.00021	0.000038	N/A	PFAS by ID SOP	
		Perfluoro-n-octanoic acid (PFOA)	0.0024	J	0.00021	0.000048	0.0017	PFAS by ID SOP
		Perfluorooctanesulfonic acid (PFOS)	0.048	J	0.0020	0.00060	0.0030	PFAS by ID SOP
		Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00021	0.000050	N/A	PFAS by ID SOP
		Perfluoro-n-pentanoic acid (PFPeA)	0.0037	J	0.00021	0.000056	N/A	PFAS by ID SOP
		Perfluoro-1-pentanesulfonic acid (PFPeS)	0.0026		0.00020	0.000040	N/A	PFAS by ID SOP
		Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00021	0.000069	N/A	PFAS by ID SOP
		Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.00021	0.000046	N/A	PFAS by ID SOP
		Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00021	0.000060	N/A	PFAS by ID SOP

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB11-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	GRO	ND		3.09	1.17	300	AK101
	DRO	ND	J	214	92.8	250	AK102
	RRO	175	J	214	71.3	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	ND		0.0298	0.00881	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		0.0298	0.0126	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		0.0298	0.00687	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		0.0298	0.00744	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		0.0298	0.0135	0.0055	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.0744	0.00726	0.000031	8260D
	<i>Benzene</i>	ND		0.0298	0.0112	0.022	8260D
	<i>Bromodichloromethane</i>	ND		0.0298	0.0215	0.0043	8260D
	<i>Bromomethane</i>	ND	J	0.149	0.0349	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		0.0298	0.00738	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		0.0298	0.00667	0.0027	8260D
	<i>Chloroform</i>	ND		0.149	0.0307	0.0071	8260D
	<i>Dibromomethane</i>	ND		0.0298	0.0104	0.025	8260D
	<i>Ethylbenzene</i>	ND		0.0298	0.00893	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		0.0298	0.0102	0.020	8260D
	<i>Naphthalene</i>	ND	J	0.149	0.149	0.038	8260D
	<i>Toluene</i>	ND		0.149	0.0367	6.7	8260D
	Total Xylenes	ND		0.0893	0.0149	1.5	8260D
	<i>Trichloroethene</i>	ND		0.0298	0.00595	0.011	8260D
	<i>Vinyl chloride</i>	ND		0.0298	0.00673	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	Benzo(b)fluoranthene	0.00329	J	0.00643	0.00164	15	8270D-SIM
	Benzo(g,h,i)perylene	0.00224	J	0.00643	0.00190	2300	8270D-SIM
	Pyrene	0.00227	J	0.00643	0.00214	87	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0021	0.00029	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0021	0.00032	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0021	0.00023	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0021	0.00030	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0021	0.00042	N/A	PFAS by ID SOP	
Perfluoro-1-butanesulfonic acid (PFBS)	ND		0.0011	0.00014	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00023	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00023	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00044	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00015	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00022	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0018		0.0011	0.00038	0.0030	PFAS by ID SOP	
SB12-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0023	0.00031	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.0023	0.00034	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0023	0.00024	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0023	0.00033	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0023	0.00039	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0023	0.00045	N/A	PFAS by ID SOP
	Perfluoro-1-butanesulfonic acid (PFBS)	ND		0.0011	0.00015	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00025	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0011	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0011	0.00016	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0011	0.00024	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0011	0.00021	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00022	J	0.0011	0.00020	N/A	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0020		0.0011	0.00040	0.0030	PFAS by ID SOP

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB13-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0029	0.00040	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0029	0.00044	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0029	0.00031	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0029	0.00042	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0029	0.00050	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0029	0.00057	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND		0.0014	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0014	0.00032	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0014	0.00025	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0014	0.00032	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0014	0.00025	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00029	J	0.0014	0.00027	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0014	0.00060	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0014	0.00023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0014	0.00025	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	0.00037	J	0.0014	0.00021	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.00051	J	0.0014	0.00027	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.0014	0.00022	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND		0.0014	0.00031	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.0014	0.00023	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0014	0.00027	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0014	0.00025	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0014	0.00027	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.0044		0.0014	0.00025	N/A	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0025		0.0014	0.00051	0.0030	PFAS by ID SOP	
	SB14-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0032	0.00044	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0032	0.00049	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0032	0.00035	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.0032	0.00046	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.0032	0.00056	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.0032	0.00063	N/A	PFAS by ID SOP	
Perfluoro-1-butanefulfonic acid (PFBS)		ND		0.0016	0.00021	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.0016	0.00036	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.0016	0.00028	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.0016	0.00035	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.0016	0.00028	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.0016	0.00030	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND		0.0016	0.00067	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND		0.0016	0.00025	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.0016	0.00028	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND		0.0016	0.00023	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND		0.0016	0.00030	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND		0.0016	0.00024	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND		0.0016	0.00034	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.0016	0.00025	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.0016	0.00030	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND		0.0016	0.00027	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.0016	0.00030	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		0.00080	J	0.0016	0.00028	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.0051		0.0016	0.00057	0.0030	PFAS by ID SOP	

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB15-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.00067 J	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000043	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	0.00015	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00022 J	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	0.00019 J	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0031 J	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP		
SB16-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0022	0.00030	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0022	0.00034	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0022	0.00024	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0022	0.00032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0022	0.00038	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0022	0.00044	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0011	0.00014	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0011	0.00025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0011	0.00024	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0011	0.00046	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0011	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	0.00041 J	0.0011	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.00049 J	0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	0.00054 J	0.0011	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	0.00070 J	0.0011	0.00023	0.0017	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	0.00082 J	0.0011	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0011	0.00021	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00047 J	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0085 J	0.0011	0.00039	0.0030	PFAS by ID SOP	
	SB17-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.0011 J	0.0021	0.00028	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.00034 J	0.0021	0.00032	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND J	0.0023	0.00025	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND J	0.0023	0.00033	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.0023	0.00040	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.0023	0.00045	N/A	PFAS by ID SOP	
Perfluoro-1-butanefulfonic acid (PFBS)		0.00017 J	0.0011	0.00015	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		0.00040 J	0.0011	0.00026	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		0.00026 J	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		0.00059 J	0.0011	0.00025	N/A	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		0.00045 J	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		0.00048 J	0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.0011	0.00048	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		0.0018	0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		0.00036 J	0.0011	0.00016	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		0.00070 J	0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		0.0014	0.0011	0.00017	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		0.0025 J	0.0011	0.00024	0.0017	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		0.00032 J	0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.0011	0.00022	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		0.00057 J	0.0011	0.00021	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		0.0070	0.0011	0.00020	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.11 J	0.0057	0.0020	0.0030	PFAS by ID SOP	

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB18-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	J	0.0021	0.00029	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	J	0.0021	0.00032	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	J	0.0021	0.00023	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	J	0.0021	0.00031	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0021	0.00037	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	J	0.0021	0.00042	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.0011	0.00014	N/A	PFAS by ID SOP	
	Perfluoro-1-decanefluoric acid (PFDS)	ND		0.0011	0.00024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00036	J	0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0011	0.00023	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00021	J	0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-butanefluoric acid (PFBA)	ND		0.0011	0.00044	N/A	PFAS by ID SOP	
	Perfluoro-n-decanefluoric acid (PFDA)	ND		0.0011	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanefluoric acid (PFDoA)	ND		0.0011	0.00019	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanefluoric acid (PFHpA)	0.0024		0.0011	0.00015	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanefluoric acid (PFHxA)	0.0020		0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanefluoric acid (PFNA)	0.00059	J	0.0011	0.00016	N/A	PFAS by ID SOP	
	Perfluoro-n-octanefluoric acid (PFOA)	0.0022			0.0011	0.00023	0.0017	PFAS by ID SOP
	Perfluoro-n-pentanefluoric acid (PFPeA)	0.00077	J	0.0011	0.00017	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanefluoric acid (PFTeDA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanefluoric acid (PFTrDA)	ND		0.0011	0.00018	N/A	PFAS by ID SOP	
Perfluoro-n-undecanefluoric acid (PFUdA)	ND		0.0011	0.00020	N/A	PFAS by ID SOP		
Perfluorohexanesulfonic acid (PFHxS)	0.0069		0.0011	0.00019	N/A	PFAS by ID SOP		
Perfluorooctanesulfonic acid (PFOS)	0.014			0.0011	0.00038	0.0030	PFAS by ID SOP	
SB19-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroicosafluoro-3-oxadecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00010	0.000017	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00010	0.000033	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.00010	0.000027	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00010	0.000015	N/A	PFAS by ID SOP	
	4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.00010	0.000040	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-butanefluoric acid (PFBA)	ND		0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.000093	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-decanefluoric acid (PFDA)	0.00022		0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanefluoric acid (PFDoA)	ND		0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-decanefluoric acid (PFDS)	ND		0.00010	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanefluoric acid (PFHpA)	0.00032		0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00010	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanefluoric acid (PFHxA)	0.00029		0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00073	J	0.00010	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanefluoric acid (PFNA)	0.0015		0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanefluoric acid (PFOA)	0.00049		0.00011	0.000024	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0028	J	0.00010	0.000029	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanefluoric acid (PFPeA)	0.00020		0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00010	0.000020	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanefluoric acid (PFTeDA)	ND		0.00011	0.000034	N/A	PFAS by ID SOP		
Perfluoro-n-tridecanefluoric acid (PFTrDA)	0.0012		0.00011	0.000022	N/A	PFAS by ID SOP		
Perfluoro-n-undecanefluoric acid (PFUdA)	0.0023		0.00011	0.000030	N/A	PFAS by ID SOP		
SB20-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroicosafluoro-3-oxadecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00010	0.000018	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.00010	0.000035	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxo-3H-perfluorononanoic acid (ADONA)	ND		0.00010	0.000042	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00011	0.000033	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanefluoric acid (PFBA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoric acid (PFBS)	ND		0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanefluoric acid (PFDA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanefluoric acid (PFDoA)	ND		0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanefluoric acid (PFDS)	ND		0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanefluoric acid (PFHpA)	ND		0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanefluoric acid (PFHxA)	ND		0.00011	0.000033	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00021	J	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanefluoric acid (PFNA)	ND		0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanefluoric acid (PFOA)	ND		0.00011	0.000025	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0011	J	0.00010	0.000031	0.0030	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanefluoric acid (PFPeA)	ND		0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00010	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanefluoric acid (PFTeDA)	ND		0.00011	0.000035	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanefluoric acid (PFTrDA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-undecanefluoric acid (PFUdA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP		

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB21-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000033	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000033	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000015	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000040	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00010	0.000031	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000092	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00010	0.000031	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.000094	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00010	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00010	0.000023	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00063	J	0.00010	0.000029	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00010	0.000033	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	0.00015	0.00010	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	0.00051	0.00010	0.000029	N/A	PFAS by ID SOP	
	SB22-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000019	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00011	0.000037	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00011	0.000038	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00011	0.000030	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00011	0.000017	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00011	0.000045	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00012	0.000035	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00012	0.000029	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00012	0.000029	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00012	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		0.00013	0.00012	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00010	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00012	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00012	0.000031	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00011	0.000030	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		0.00020	0.00012	0.000026	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		0.00020	J	0.00012	0.000035	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.00017	J	0.00011	0.000026	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		0.00028	0.00012	0.000034	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00011	0.000021	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		0.00035	0.00012	0.000026	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.0011	J	0.00011	0.000033	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00012	0.000028	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		0.00040	0.00012	0.000031	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00011	0.000022	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00012	0.000038	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.00012	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00012	0.000033	N/A	PFAS by ID SOP	

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB23-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00011	0.000018	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00011	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00011	0.000044	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00012	J	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00011	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000026	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.00044	J	0.00010	0.000032	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00011	0.000021	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000036	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	SB29-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00013	0.000023	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00013	0.000045	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00013	0.000045	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00014	0.000037	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00013	0.000021	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00013	0.000055	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00014	0.000042	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00014	0.000035	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00014	0.000035	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00014	0.000033	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		0.00019		0.00014	0.000034	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		0.00015		0.00013	0.000031	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND	0.00014	0.000031	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00014	0.000038	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00014	0.000036	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		0.00027		0.00014	0.000032	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		0.00051	J	0.00013	0.000036	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		0.00094		0.00014	0.000043	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.012	J	0.00013	0.000032	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00014	0.000041	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		0.00035	J	0.00014	0.000025	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		0.00048		0.00014	0.000032	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.042	J	0.00066	0.00020	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00014	0.000033	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		0.00038		0.00014	0.000037	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		0.00046	J	0.00013	0.000026	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00014	0.000046	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.00014	0.000030	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00014	0.000040	N/A	PFAS by ID SOP	

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB30-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000033	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.00045	J	0.00010	0.000027	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000015	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000040	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00010	0.000031	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoride (PFBS)	ND	0.000093	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	0.00025		0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	0.00015		0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00013	J	0.00010	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00021		0.00010	0.000031	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0020	J	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00035		0.00010	0.000030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	0.00022	J	0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00055		0.00010	0.000024	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.018	J	0.00049	0.00015	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00016		0.00010	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00018	J	0.00010	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00010	0.000034	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00010	0.000022	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)	0.00017		0.00010	0.000029	N/A	PFAS by ID SOP	
SB31-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00013	0.000022	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00013	0.000044	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00013	0.000044	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00013	0.000036	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00013	0.000020	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00013	0.000053	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00014	0.000041	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00014	0.000034	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00014	0.000034	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00014	0.000032	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	0.00024		0.00014	0.000033	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoride (PFBS)	ND		0.00012	0.000030	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00014	0.000030	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00014	0.000037	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00013	0.000035	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	0.0011		0.00014	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	0.00019	J	0.00013	0.000034	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00081		0.00014	0.000041	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0062	J	0.00013	0.000031	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00025		0.00014	0.000039	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00013	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00059		0.00014	0.000031	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0044	J	0.00013	0.000038	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00014	0.000032	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	0.00066		0.00014	0.000036	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	0.00015	J	0.00013	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00014	0.000044	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00014	0.000030	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00014	0.000039	N/A	PFAS by ID SOP	

**TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)		RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB32-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00010	0.000018	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND		0.00010	0.000035	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.00013	J	0.00010	0.000028	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND		0.00010	0.000016	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.00010	0.000042	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND		0.00011	0.000032	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.00011	0.000027	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.00011	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND		0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND		0.00011	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.00010	0.000027	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND		0.00011	0.000033	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00022	J	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND		0.00011	0.000025	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0021	J	0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.00011	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND		0.00011	0.000029	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.00010	0.000020	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.00011	0.000035	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.00011	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND		0.00011	0.000031	N/A	PFAS by ID SOP
	SB33-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND		0.00012	0.000020	N/A
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND		0.00012	0.000039	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND		0.00012	0.000040	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND		0.00012	0.000032	N/A	PFAS by ID SOP
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND		0.00012	0.000018	N/A	PFAS by ID SOP
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND		0.00012	0.000047	N/A	PFAS by ID SOP
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND		0.00012	0.000037	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND		0.00012	0.000031	N/A	PFAS by ID SOP
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND		0.00012	0.000031	N/A	PFAS by ID SOP
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND		0.00012	0.000029	N/A	PFAS by ID SOP
Perfluoro-n-butanoic acid (PFBA)		ND		0.00012	0.000029	N/A	PFAS by ID SOP
Perfluoro-1-butanefluoronic acid (PFBS)		ND		0.00011	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-decanoic acid (PFDA)		ND		0.00012	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-dodecanoic acid (PFDoA)		ND		0.00012	0.000033	N/A	PFAS by ID SOP
Perfluoro-1-decanesulfonic acid (PFDS)		ND		0.00012	0.000031	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)		0.00015		0.00012	0.000028	N/A	PFAS by ID SOP
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND		0.00012	0.000031	N/A	PFAS by ID SOP
Perfluoro-n-hexanoic acid (PFHxA)		0.00018		0.00012	0.000037	N/A	PFAS by ID SOP
Perfluorohexanesulfonic acid (PFHxS)		0.0014	J	0.00011	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		ND		0.00012	0.000035	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND		0.00012	0.000022	N/A	PFAS by ID SOP
Perfluoro-n-octanoic acid (PFOA)		0.00017		0.00012	0.000028	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.0026	J	0.00011	0.000034	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND		0.00012	0.000029	N/A	PFAS by ID SOP
Perfluoro-n-pentanoic acid (PFPeA)		ND		0.00012	0.000032	N/A	PFAS by ID SOP
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND		0.00012	0.000023	N/A	PFAS by ID SOP
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND		0.00012	0.000040	N/A	PFAS by ID SOP
Perfluoro-n-tridecanoic acid (PFTrDA)		ND		0.00012	0.000026	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)		ND		0.00012	0.000035	N/A	PFAS by ID SOP

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB180-2 PID = 0 ppm Depth = 2.5 - 5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000016	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000041	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000027	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000029	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00011	0.000031	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00011	0.000024	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0014	J	0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00011	0.000030	N/A	PFAS by ID SOP	
	SB180-4 Duplicate of SB180-2 RPD = 7%	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00010	0.000034	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00010	0.000028	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00010	0.000016	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00010	0.000041	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00011	0.000032	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00011	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00011	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00010	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00011	0.000024	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00010	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00011	0.000032	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		ND	0.00010	0.000024	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND	0.00011	0.000031	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00010	0.000019	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND	0.00011	0.000024	0.0017	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		0.0015	J	0.00010	0.000030	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00011	0.000025	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00011	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00010	0.000020	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00011	0.000034	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTTrDA)		ND	0.00011	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		0.00012	J	0.00011	0.000030	N/A	PFAS by ID SOP
SB190-1 PID = 0 ppm Depth = 0 - 2.5 ft bg		11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.00012	J	0.00010	0.000027	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000015	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000040	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00010	0.000031	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000093	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	0.00015	J	0.00010	0.000031	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.0013	J	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00016	J	0.00010	0.000030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.00010	0.000024	0.0017	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	0.0047	J	0.00010	0.000029	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTTrDA)	ND	0.00010	0.000022	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00010	0.000029	N/A	PFAS by ID SOP	

TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method	
SB191-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.00012	J	0.00010	0.000028	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000015	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000041	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00011	0.000026	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000094	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00011	0.000024	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000027	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.00011	0.000032	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	0.00048	J	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	0.00011		0.00011	0.000030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	0.00015		0.00011	0.000024	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0026	J	0.00010	0.000030	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00011	0.000025	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00011	0.000028	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000020	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00011	0.000034	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00011	0.000023	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUdA)	0.00013		0.00011	0.000030	N/A	PFAS by ID SOP
	SB192-1 PID = 0 ppm Depth = 0 - 2.5 ft bg	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00012	0.000020	N/A	PFAS by ID SOP
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)		ND	0.00012	0.000039	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.00012	0.000039	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.00012	0.000032	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.00011	0.000018	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.00012	0.000047	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.00012	0.000037	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.00012	0.000031	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.00012	0.000030	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.00012	0.000029	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.00012	0.000029	N/A	PFAS by ID SOP	
Perfluoro-1-butanefluoronic acid (PFBS)		ND	0.00011	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.00012	0.000027	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.00012	0.000033	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.00012	0.000031	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.00012	0.000028	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.00012	0.000031	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.00012	0.000037	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		0.00054	J	0.00011	0.000027	N/A	PFAS by ID SOP
Perfluoro-n-nonanoic acid (PFNA)		0.00017	J	0.00012	0.000035	N/A	PFAS by ID SOP
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.00012	0.000022	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		0.00018		0.00012	0.000028	0.0017	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)		0.0040		0.00011	0.000034	0.0030	PFAS by ID SOP
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.00012	0.000029	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.00012	0.000032	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.00012	0.000023	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.00012	0.000040	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.00012	0.000026	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)		ND	0.00012	0.000035	N/A	PFAS by ID SOP	

**TABLE 6
HOM13-SS VICINITY SOIL SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (mg/Kg)	RDL (mg/Kg)	MDL (mg/Kg)	ADEC Cleanup Criteria (mg/Kg) ¹	Analytical Method
SB193-1	GRO	ND	2.93	1.11	300	AK101
PID = 5 ppm	<i>DRO</i>	<i>ND</i>	<i>J</i> 4140	<i>1790</i>	250	AK102
Depth = 0 - 2.5 ft bg	RRO	9580	J 4140	1380	10000	AK103
	<i>1,1,1,2-Tetrachloroethane</i>	<i>ND</i>	<i>0.0268</i>	<i>0.00793</i>	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	<i>ND</i>	<i>0.0268</i>	<i>0.0114</i>	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	<i>ND</i>	<i>0.0268</i>	<i>0.00618</i>	0.0030	8260D
	<i>1,2-Dibromoethane</i>	<i>ND</i>	<i>0.0268</i>	<i>0.00669</i>	0.00024	8260D
	<i>1,2-Dichloroethane</i>	<i>ND</i>	<i>0.0268</i>	<i>0.0121</i>	0.0055	8260D
	<i>1,2,3-Trichloropropane</i>	<i>ND</i>	<i>0.0669</i>	<i>0.00653</i>	0.000031	8260D
	<i>Benzene</i>	<i>ND</i>	<i>0.0268</i>	0.0100	0.022	8260D
	<i>Bromodichloromethane</i>	<i>ND</i>	<i>0.0268</i>	<i>0.0194</i>	0.0043	8260D
	<i>Bromomethane</i>	<i>ND</i>	<i>J</i> 0.134	<i>0.0314</i>	0.024	8260D
	<i>Carbon tetrachloride</i>	<i>ND</i>	<i>0.0268</i>	0.00664	0.021	8260D
	<i>Chlorodibromomethane</i>	<i>ND</i>	<i>0.0268</i>	<i>0.00600</i>	0.0027	8260D
	<i>Chloroform</i>	<i>ND</i>	<i>0.134</i>	<i>0.0276</i>	0.0071	8260D
	<i>Dibromomethane</i>	<i>ND</i>	<i>0.0268</i>	0.00937	0.025	8260D
	Ethylbenzene	ND	0.0268	0.00803	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	<i>ND</i>	<i>0.0268</i>	0.00916	0.020	8260D
	<i>Naphthalene</i>	<i>ND</i>	<i>J</i> 0.134	<i>0.134</i>	0.038	8260D
	p-Isopropyltoluene	0.00846	J 0.0268	0.00546	N/A	8260D
	Toluene	ND	0.134	0.0330	6.7	8260D
	Total Xylenes	ND	0.0803	0.0134	1.5	8260D
	<i>Trichloroethene</i>	<i>ND</i>	<i>0.0268</i>	0.00536	0.011	8260D
	<i>Vinyl chloride</i>	<i>ND</i>	<i>0.0268</i>	<i>0.00605</i>	0.00080	8260D
	All other VOCs	ND	varies	varies	varies	8260D
	Benzo(a)anthracene	0.00733	0.00621	0.00179	0.70	8270D-SIM
	Benzo(a)pyrene	0.0143	0.00621	0.00185	1.5	8270D-SIM
	Benzo(b)fluoranthene	0.0201	0.00621	0.00158	15	8270D-SIM
	Benzo(g,h,i)perylene	0.0285	0.00621	0.00183	2300	8270D-SIM
	Chrysene	0.0179	0.00621	0.00240	600	8270D-SIM
	Dibenz(a,h)anthracene	0.00850	0.00621	0.00178	1.5	8270D-SIM
	Fluoranthene	0.00875	0.00621	0.00235	590	8270D-SIM
	Indeno(1,2,3-cd)pyrene	0.00726	0.00621	0.00187	15	8270D-SIM
	Naphthalene	0.00616	J 0.0207	0.00422	0.038	8270D-SIM
	Phenanthrene	0.00373	J 0.00621	0.00239	39	8270D-SIM
	Pyrene	0.0188	0.00621	0.00207	87	8270D-SIM
	All other PAHs	ND	varies	varies	varies	8270D-SIM
	11-Chloroicosfluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.00010	0.000017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.00010	0.000033	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.00010	0.000034	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	0.00012	J 0.00010	0.000027	N/A	PFAS by ID SOP
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.00010	0.000015	N/A	PFAS by ID SOP
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.00010	0.000040	N/A	PFAS by ID SOP
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.00010	0.000031	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND	0.000093	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.00010	0.000024	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.00010	0.000026	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	0.00012	0.00010	0.000031	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	0.00070	J 0.00010	0.000023	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.00010	0.000030	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	0.00014	0.00010	0.000024	0.0017	PFAS by ID SOP
	Perfluorooctanesulfonic acid (PFOS)	0.0028	J 0.00010	0.000029	0.0030	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.00010	0.000025	N/A	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.00010	0.000028	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.00010	0.000019	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.00010	0.000034	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.00010	0.000022	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.00010	0.000029	N/A	PFAS by ID SOP

¹ Soil cleanup criteria for VOCs and PAHs are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Migration to Groundwater values (November 18, 2021) except for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenzo[a,h]anthracene, and indeno[1,2,3-cd]pyrene; which are obtained from the more stringent Under 40-inch zone (referring to annual precipitation) human health pathway (November 18, 2021).

Soil cleanup criteria for PFOS and PFOA are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values
Soil cleanup criteria for GRO, and DRO are obtained from Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021). Soil cleanup criterion for RRO is obtained from the Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation) ingestion value.

Samples were analyzed for VOCs by EPA Method 8260D, for PAHs by EPA 8270D-SIM, for GRO by AK 101, for DRO by AK 102, and for RRO by AK 103.
Samples were analyzed for PFAS by Isotope Dilution pursuant to LC/MS/MS Quality Systems Manual (QSM) 5.3 Table B-15.

ADEC = Alaska Department of Environmental Conservation; PID = photoionization detector; ppm = parts per million; EPA = Environmental Protection Agency
DRO = diesel range organics; GRO = gasoline range organics; RRO = residual range organics; PAHs = polynuclear aromatic hydrocarbons;
VOCs = volatile organic compounds; RDL = reporting detection limit; MDL = method detection limit; ND = not detectable, AK = Alaska method;
mg/Kg = milligrams per kilogram; PFAS = per- and polyfluoroalkyl substances; bg = below grade; ft = feet

Bold = The concentration exceeds the applicable ADEC cleanup criterion.
Italics = The RDL and/or MDL exceeds the applicable ADEC cleanup criterion and the analyte is not detected.
Underline = The RDL and MDL exceed the applicable ADEC cleanup criterion and the analyte is not detected.

TABLE 7
EQUIPMENT BLANKS AND GAC DISCHARGE AND CHARACTERIZATION SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (µg/L)	RDL (µg/L)	MDL (µg/L)	ADEC Cleanup Criteria (µg/L) ¹	Analytical Method	
EB-518	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.0018	0.00043	N/A	PFAS by ID SOP	
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0018	0.00054	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0019	0.00063	N/A	PFAS by ID SOP	
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0019	0.00064	N/A	PFAS by ID SOP	
	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)	ND	0.0018	0.00030	N/A	PFAS by ID SOP	
	4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND	0.0018	0.00050	N/A	PFAS by ID SOP	
	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)	ND	0.0020	0.00052	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.0020	0.00050	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0020	0.00054	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0020	0.00042	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0020	0.00043	N/A	PFAS by ID SOP	
	Perfluoro-1-butan sulfonic acid (PFBS)	ND	0.0017	0.00046	N/A	PFAS by ID SOP	
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0020	0.00055	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0020	0.00047	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0019	0.00044	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0020	0.00054	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0019	0.00040	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0020	0.00043	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.0018	0.00050	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0020	0.00072	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0019	0.00044	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0020	0.00057	0.40	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.0018	0.00053	0.40	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0020	0.00080	N/A	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0020	0.00043	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0018	0.00046	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0020	0.00046	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0020	0.00061	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUDa)	ND	0.0020	0.00053	N/A	PFAS by ID SOP	
	EB519	11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11-Cl-PF3OUdS)	ND	0.0018	0.00042	N/A	PFAS by ID SOP
		1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0018	0.00054	N/A	PFAS by ID SOP
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)		ND	0.0018	0.00062	N/A	PFAS by ID SOP	
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)		ND	0.0018	0.00063	N/A	PFAS by ID SOP	
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9-Cl-PF3ONS)		ND	0.0018	0.00029	N/A	PFAS by ID SOP	
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)		ND	0.0018	0.00049	N/A	PFAS by ID SOP	
Hexafluoropropylene Oxide Dimer Acid (HFPO-DA)		ND	0.0019	0.00051	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamide (MeFOSA)		ND	0.0019	0.00049	N/A	PFAS by ID SOP	
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)		ND	0.0019	0.00053	N/A	PFAS by ID SOP	
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)		ND	0.0019	0.00042	N/A	PFAS by ID SOP	
Perfluoro-n-butanoic acid (PFBA)		ND	0.0019	0.00042	N/A	PFAS by ID SOP	
Perfluoro-1-butan sulfonic acid (PFBS)		ND	0.0017	0.00045	N/A	PFAS by ID SOP	
Perfluoro-n-decanoic acid (PFDA)		ND	0.0019	0.00054	N/A	PFAS by ID SOP	
Perfluoro-n-dodecanoic acid (PFDoA)		ND	0.0019	0.00046	N/A	PFAS by ID SOP	
Perfluoro-1-decanesulfonic acid (PFDS)		ND	0.0019	0.00043	N/A	PFAS by ID SOP	
Perfluoro-n-heptanoic acid (PFHpA)		ND	0.0019	0.00053	N/A	PFAS by ID SOP	
Perfluoro-1-heptanesulfonic acid (PFHpS)		ND	0.0018	0.00040	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)		ND	0.0019	0.00042	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)		ND	0.0017	0.00049	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)		ND	0.0019	0.00071	N/A	PFAS by ID SOP	
Perfluoro-1-nonanesulfonic acid (PFNS)		ND	0.0018	0.00043	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)		ND	0.0019	0.00056	0.40	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)		ND	0.0018	0.00053	0.40	PFAS by ID SOP	
Perfluoro-1-octanesulfonamide (PFOSA)		ND	0.0019	0.00079	N/A	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)		ND	0.0019	0.00042	N/A	PFAS by ID SOP	
Perfluoro-1-pentanesulfonic acid (PFPeS)		ND	0.0018	0.00046	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)		ND	0.0019	0.00046	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)		ND	0.0019	0.00060	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUDa)		ND	0.0019	0.00052	N/A	PFAS by ID SOP	
EB-520		1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0069	0.0014	N/A	PFAS by ID SOP
		1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0069	0.0017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0069	0.00076	N/A	PFAS by ID SOP	
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0069	0.00065	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.014	0.0011	N/A	PFAS by ID SOP	
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0069	0.00081	N/A	PFAS by ID SOP	
	Perfluoro-1-butan sulfonic acid (PFBS)	ND	0.0035	0.00036	N/A	PFAS by ID SOP	
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0035	0.00067	N/A	PFAS by ID SOP	
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0035	0.00043	N/A	PFAS by ID SOP	
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0035	0.00062	N/A	PFAS by ID SOP	
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0035	0.00053	N/A	PFAS by ID SOP	
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0035	0.00051	N/A	PFAS by ID SOP	
	Perfluoro-n-butanoic acid (PFBA)	0.0018	J	0.0035	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0035	0.00045	N/A	PFAS by ID SOP	
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0035	0.00041	N/A	PFAS by ID SOP	
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0035	0.00039	N/A	PFAS by ID SOP	
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0035	0.00060	N/A	PFAS by ID SOP	
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0035	0.00040	N/A	PFAS by ID SOP	
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0035	0.00072	0.40	PFAS by ID SOP	
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0035	0.00047	N/A	PFAS by ID SOP	
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0035	0.00052	N/A	PFAS by ID SOP	
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0035	0.00046	N/A	PFAS by ID SOP	
	Perfluoro-n-undecanoic acid (PFUDa)	ND	0.0035	0.00054	N/A	PFAS by ID SOP	
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.0035	0.00048	N/A	PFAS by ID SOP	
	Perfluorooctanesulfonic acid (PFOS)	ND	0.0035	0.0017	0.40	PFAS by ID SOP	

**TABLE 7
EQUIPMENT BLANKS AND GAC DISCHARGE AND CHARACTERIZATION SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (µg/L)	RDL (µg/L)	MDL (µg/L)	ADEC Cleanup Criteria (µg/L) ¹	Analytical Method
EB-521	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0070	0.0014	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0070	0.0017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0070	0.00076	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0070	0.00066	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.014	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0070	0.00081	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0035	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0035	0.00068	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0035	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0035	0.00062	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0035	0.00054	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0035	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0035	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0035	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0035	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0035	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0035	0.00060	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0035	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0035	0.00072	0.40	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0035	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0035	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0035	0.00046	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0035	0.00055	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND	0.0035	0.00048	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND	0.0035	0.0017	0.40	PFAS by ID SOP	
EB-522	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0069	0.0014	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0069	0.0017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0069	0.00075	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0069	0.00064	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.014	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0069	0.00080	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0034	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0034	0.00067	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0034	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0034	0.00061	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0034	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0034	0.00051	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0034	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0034	0.00045	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0034	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0034	0.00038	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0034	0.00059	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0034	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0034	0.00071	0.40	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0034	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0034	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0034	0.00045	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0034	0.00054	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND	0.0034	0.00047	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND	0.0034	0.0017	0.40	PFAS by ID SOP	
EB-523	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0070	0.0014	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0070	0.0017	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0070	0.00076	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0070	0.00065	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.014	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0070	0.00081	N/A	PFAS by ID SOP
	Perfluoro-1-butanefulfonic acid (PFBS)	ND	0.0035	0.00036	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0035	0.00068	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0035	0.00043	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0035	0.00062	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0035	0.00053	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0035	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0035	0.00053	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0035	0.00046	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0035	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0035	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0035	0.00061	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0035	0.00040	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0035	0.00072	0.40	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0035	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0035	0.00052	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0035	0.00046	N/A	PFAS by ID SOP
Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0035	0.00055	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	ND	0.0035	0.00048	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	ND	0.0035	0.0017	0.40	PFAS by ID SOP	

TABLE 7
EQUIPMENT BLANKS AND GAC DISCHARGE AND CHARACTERIZATION SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA

Sample	Analyte	Results (µg/L)	RDL (µg/L)	MDL (µg/L)	ADEC Cleanup Criteria (µg/L) ¹	Analytical Method
EB-526	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.0071	0.0014	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.0071	0.0018	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.0071	0.00078	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.0071	0.00067	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.014	0.0011	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.0071	0.00083	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.0036	0.00037	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.0036	0.00069	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.0036	0.00044	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.0036	0.00063	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.0036	0.00055	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.0036	0.00053	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.0035	0.00053	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.0036	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.0036	0.00042	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.0035	0.00039	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.0035	0.00061	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.0036	0.00041	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.0036	0.00074	0.40	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.0035	0.00048	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.0036	0.00053	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.0036	0.00047	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.0036	0.00056	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.0036	0.00049	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	ND	0.0036	0.0018	0.40	PFAS by ID SOP	
GAC-526	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND	0.080	0.016	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	ND	0.080	0.020	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND	0.080	0.0087	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND	0.080	0.0075	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND	0.16	0.013	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND	0.080	0.0093	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoric acid (PFBS)	ND	0.040	0.0041	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND	0.040	0.0078	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND	0.040	0.0050	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND	0.040	0.0071	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND	0.040	0.0061	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND	0.040	0.0059	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND	0.040	0.0060	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND	0.040	0.0052	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND	0.040	0.0047	N/A	PFAS by ID SOP
	Perfluoro-n-heptanoic acid (PFHpA)	ND	0.040	0.0045	N/A	PFAS by ID SOP
	Perfluoro-n-hexanoic acid (PFHxA)	ND	0.040	0.0069	N/A	PFAS by ID SOP
	Perfluoro-n-nonanoic acid (PFNA)	ND	0.040	0.0046	N/A	PFAS by ID SOP
	Perfluoro-n-octanoic acid (PFOA)	ND	0.040	0.0083	0.40	PFAS by ID SOP
	Perfluoro-n-pentanoic acid (PFPeA)	ND	0.040	0.0054	N/A	PFAS by ID SOP
	Perfluoro-n-tetradecanoic acid (PFTeDA)	ND	0.040	0.0060	N/A	PFAS by ID SOP
	Perfluoro-n-tridecanoic acid (PFTrDA)	ND	0.040	0.0053	N/A	PFAS by ID SOP
	Perfluoro-n-undecanoic acid (PFUdA)	ND	0.040	0.0063	N/A	PFAS by ID SOP
	Perfluorohexanesulfonic acid (PFHxS)	ND	0.040	0.0055	N/A	PFAS by ID SOP
Perfluorooctanesulfonic acid (PFOS)	ND	0.040	0.020	0.40	PFAS by ID SOP	

**TABLE 7
EQUIPMENT BLANKS AND GAC DISCHARGE AND CHARACTERIZATION SAMPLES (MAY 2022)
HOMER AIRPORT
HOMER ALASKA**

Sample	Analyte	Results (µg/L)		RDL (µg/L)	MDL (µg/L)	ADEC Cleanup Criteria (µg/L) ¹	Analytical Method
GAC-2	GRO	ND		5.47	2.09	300	AK101
	DRO	ND		405	175	250	AK102
	RRO	ND	J	405	135	10000	AK103
	<i>1,1-Dichloroethane</i>	ND		0.104	0.0277	0.092	8260D
	<i>1,1,1,2-Tetrachloroethane</i>	ND		0.104	0.0307	0.022	8260D
	<i>1,1,2-Trichloroethane</i>	ND		0.104	0.0442	0.0014	8260D
	<i>1,1,2,2-Tetrachloroethane</i>	ND		0.104	0.0239	0.0030	8260D
	<i>1,2-Dibromoethane</i>	ND		0.104	0.0259	0.00024	8260D
	<i>1,2-Dichloroethane</i>	ND		0.104	0.0466	0.0055	8260D
	<i>1,2-Dichloropropane</i>	ND		0.104	0.0170	0.030	8260D
	<i>1,2,3-Trichloropropane</i>	ND		0.259	0.0253	0.000031	8260D
	<i>1,2,4-Trichlorobenzene</i>	ND		0.104	0.0401	0.082	8260D
	<i>1,4-Dichlorobenzene</i>	ND		0.104	0.0862	0.037	8260D
	<i>Benzene</i>	ND		0.104	0.0388	0.022	8260D
	<i>Bromodichloromethane</i>	ND		0.104	0.0752	0.0043	8260D
	<i>Bromoform</i>	ND		0.104	0.0439	0.10	8260D
	<i>Bromomethane</i>	ND	J	0.520	0.121	0.024	8260D
	<i>Carbon tetrachloride</i>	ND		0.104	0.0257	0.021	8260D
	<i>Chlorodibromomethane</i>	ND		0.104	0.0232	0.0027	8260D
	<i>Chloroform</i>	ND		0.520	0.107	0.0071	8260D
	<i>Dibromomethane</i>	ND		0.104	0.0364	0.025	8260D
	Ethylbenzene	ND		0.104	0.0310	0.13	8260D
	<i>Hexachloro-1,3-butadiene</i>	ND		0.104	0.0356	0.020	8260D
	<i>Methylene Chloride</i>	ND		0.520	0.104	0.33	8260D
	<i>Naphthalene</i>	ND	J	0.520	0.517	0.038	8260D
	Toluene	ND		0.520	0.128	6.7	8260D
	Total Xylenes	ND		0.312	0.0520	1.5	8260D
	<i>Trichloroethene</i>	ND		0.104	0.0207	0.011	8260D
	<i>Vinyl chloride</i>	ND		0.104	0.0234	0.00080	8260D
	All other VOCs	ND		varies	varies	varies	8260D
	<i>Naphthalene</i>	ND		0.0405	0.00827	0.038	8270D-SIM
	All other PAHs	ND		varies	varies	varies	8270D-SIM
	1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	ND		0.0036	0.00049	N/A	PFAS by ID SOP
	1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	0.0013	J	0.0036	0.00054	N/A	PFAS by ID SOP
	1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	ND		0.0036	0.00039	N/A	PFAS by ID SOP
	N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	ND		0.0036	0.00051	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamide (MeFOSA)	ND		0.0036	0.00062	N/A	PFAS by ID SOP
	N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	ND		0.0036	0.00070	N/A	PFAS by ID SOP
	Perfluoro-1-butanefluoronic acid (PFBS)	ND		0.0018	0.00023	N/A	PFAS by ID SOP
	Perfluoro-1-decanesulfonic acid (PFDS)	ND		0.0018	0.00040	N/A	PFAS by ID SOP
	Perfluoro-1-heptanesulfonic acid (PFHpS)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-nonanesulfonic acid (PFNS)	ND		0.0018	0.00039	N/A	PFAS by ID SOP
	Perfluoro-1-octanesulfonamide (PFOSA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
	Perfluoro-1-pentanesulfonic acid (PFPeS)	ND		0.0018	0.00033	N/A	PFAS by ID SOP
	Perfluoro-n-butanoic acid (PFBA)	ND		0.0018	0.00074	N/A	PFAS by ID SOP
	Perfluoro-n-decanoic acid (PFDA)	ND		0.0018	0.00028	N/A	PFAS by ID SOP
	Perfluoro-n-dodecanoic acid (PFDoA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP
Perfluoro-n-heptanoic acid (PFHpA)	ND		0.0018	0.00025	N/A	PFAS by ID SOP	
Perfluoro-n-hexanoic acid (PFHxA)	0.00050	J	0.0018	0.00033	N/A	PFAS by ID SOP	
Perfluoro-n-nonanoic acid (PFNA)	ND		0.0018	0.00027	N/A	PFAS by ID SOP	
Perfluoro-n-octanoic acid (PFOA)	ND		0.0018	0.00038	0.02	PFAS by ID SOP	
Perfluoro-n-pentanoic acid (PFPeA)	0.00063	J	0.0018	0.00028	N/A	PFAS by ID SOP	
Perfluoro-n-tetradecanoic acid (PFTeDA)	ND		0.0018	0.00034	N/A	PFAS by ID SOP	
Perfluoro-n-tridecanoic acid (PFTrDA)	ND		0.0018	0.00031	N/A	PFAS by ID SOP	
Perfluoro-n-undecanoic acid (PFUdA)	ND		0.0018	0.00033	N/A	PFAS by ID SOP	
Perfluorohexanesulfonic acid (PFHxS)	0.00046	J	0.0018	0.00031	N/A	PFAS by ID SOP	
Perfluorooctanesulfonic acid (PFOS)	0.0019		0.0018	0.00063	0.03	PFAS by ID SOP	

¹ Soil cleanup criteria for VOCs and PAHs are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Migration to Groundwater values (November 18, 2021) except for benzo[a]pyrene, benzo[b]fluoranthene, benzo[g,h,i]perylene, benzo[k]fluoranthene, dibenzo[a,h]anthracene, and indeno[1,2,3-cd]pyrene; which are obtained from the more stringent Under 40-inch zone (referring to annual precipitation) human health pathway (November 18, 2021).

Soil cleanup criteria for PFOS and PFOA are obtained from ADEC 18 AAC 75.341, Table B1, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021).

Soil cleanup criteria for GRO, and DRO are obtained from Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation), Migration to Groundwater values (November 18, 2021). Soil cleanup criterion for RRO is obtained from the Table B2, Method 2, Under 40-Inch Zone (referring to annual precipitation) ingestion value.

Samples were analyzed for VOCs by EPA Method 8260D, for PAHs by EPA 8270D-SIM, for GRO by AK 101, for DRO by AK 102, and for RRO by AK 103.

Samples were analyzed for PFAS by Isotope Dilution pursuant to LC/MS/MS Quality Systems Manual (QSM) 5.3 Table B-15.

ADEC = Alaska Department of Environmental Conservation; EPA = Environmental Protection Agency

DRO = diesel range organics; GRO = gasoline range organics; RRO = residual range organics; PAHs = polynuclear aromatic hydrocarbons;

VOCs = volatile organic compounds; RDL = reporting detection limit; MDL = method detection limit; ND = not detectable, AK = Alaska method;

mg/Kg = milligrams per kilogram; PFAS = per- and polyfluoroalkyl substances

APPENDIX A
FIELD NOTES AND SITE PHOTOGRAPHS

5/17/22 50°F Sunny Pg 1

1420 S. Bundy & C. Kent of BGES
on site and Meet Representatives
of Homer Electric, Homer Sewer & Water,
ACS, Enstar & FAA.

1440 BGES and ACS & FAA
Mark utilities. ACS Marks Utilities
at HOM 4-85, all other Areas did not
require additional utility markings.

1530 BGES Begin marking Base
locations.

1900 BGES off site

5/18/22 44°F Sunny Pg 2

0800 BGES personnel meet with Geotek personnel & Honor Airport Manager (Kevin) and we granted Airport Ramp Access.
 0815 S. Bundy calibrates PID's

PID Table

Sample ID	Time collected	PID Read	Time Read
SB 67-1	0929	0	0957
SB 67-2	0934	0	0959
SB 168-1	0941	0	1000
SB 168-2	0945	0	1002
SB 167-1	0957	0	1010
SB 167-2	0956	0	1011
SB 164-1	1003	0	1030
SB 164-2	1006	0	1031
SB 165-1	1014	0	1048
SB 165-2	1018	0	1049
SB 166-1	1029	0	1051
SB 166-2	1034	0	1053

Discharged approx 1 Gallon residue through GAC into SB164 Vicinity @ 1045

Sample	Time	PID	reading time
SB 65-1	1100	0	1115
SB 65-2	1105	0	1117
SB 154-1	1129	0	1147
SB 154-2	1133	0	1148
SB 153-1	1135	0	1158
SB 153-2	1139	0	1159
SB 152-1	1142	0	1159
SB 152-2	1145	0	1200

5/18/22 54°F

Pg 3

PSD Table Continued

Sample ID	Time L	PSD Read	Time R
SB149-1	1151	0	1239
SB149-2	1154	0	1240
SB150-1	1238	0	1305
SB150-2	1242	0	1306

1204 1 Gallon of Rinseate Discharged through GAC at SB 149

PSD Table Continued

Sample ID	Time L	PSD Read	Time R
SB151-1	1248	0	1307
SB151-2	1252	0	1307
SB60-1	1303	0	1335
SB60-2	1306	0	1335
SB58-1	1324	0	1342
SB58-2	1330	0	1343
SB57-1	1334	0	1405
SB57-2	1339	0	1405

1352 1 gallon of Rinseate Discharged through GAC at SB 54

Sample ID	Time L	PSD Read	Time R
SB56-1	1345	0	1419
SB56-2	1352	0	1420
SB55-1	1404	0	1435
SB55-2	1409	0	1436
SB54-1	1416	0	1456
SB54-2	1421	0	1456

5/18/22 53°F Sunny

pg 4

PSD Table Continued

Sample ID	Time L	PSDR	Time R
SB 139-1	1428	0	1502
SB 139-2	1434	0	1503
SB 140-1	1441	0	1459
SB 140-2	1444	0	1500
SB 141-1	1453	0	1524
SB 141-2	1458	0	1525

1503 1 Gallon of Rinsate Discharged through GAL at SB 139

Sample ID	Time L	PSDR	Time R
SB 142-1	1508	0	1541
SB 142-2	1513	0	1542
SB 143-1	1518	0	1542
SB 143-2	1523	0	1543
SB 134-1	1531	0	1559
SB 134-2	1534	0	1559
SB 135-1	1544	0	1618
SB 135-2	1549	0	1618
SB 136-1	1558	0	1619
SB 136-2	1604	0	1619
SB 137-1	1616	0	1642
SB 137-2	1616	0	1642
SB 138-1	1621	0	1648
SB 138-2	1626	0	1640
SB 49-1	1637	0	1720
SB 49-2	1642	0	1720
SB 50-1	1704	0	1721
SB 50-2	1709	0	1722

1535 1 Gallon of Rinsate Discharged through GAL at SB 134

5/18/22 55°F

Page 5

Sample ID	Time Collected	PSP	Time Read
SB 51-1	1714	0	1742
SB 51-2	1719	0	1743
SB 52-1	1727	0	1801
SB 52-2	1732	0	1802
SB 53-1	1738	0	1803
SB 53-2	1744	0	1803

1607 1 gallon of Rinsatec Discharged through GAC at SB 49

1630 Geotek offsite

1755 Equipment blank collected from ~~drilling~~ Decantant/Drilling equipment sample ID EB-518.

1810 BGES offsite.

SB 58 shifted 5' east so as to not drill through pavement.

SB's; 61, 59, 63, 66, 64, 68 omitted from drilling schedule because they are located on pavement.

5/19/22 45°F Sunny pg 6

0750 BGES + Geotek, onsite
0815 PSDs, Calibrated
0900 S. Bundy ships samples
0910 PSD headspace blank performed
0935 GAC Discharged

Time	Location	Amount
0935	SB159	1 Gallon
1103	SB154	1 gallon
1325	SB147	1 gallon
1420	SB129	1 gallon
1537	SB124	1 gallon
1730	SB44	1 gallon
1640	SB179	1 gallon

1130 Trach derailed on drilling rig. Estimated Repair time 1/2 - 1 hour

5/19/22

Sample ID	Start time	P50	Read time	Page
SB163-1	0912	0	0944	
SB163-2	0918	0	0944	
SB159-1	0926	0	1005	
SB159-2	0931	0	1006	
SB160-1	0947	0	1009	
SB160-2	0952	0	1009	
SB161-1	0957	0	1030	
SB161-2	1002	0	1031	
SB162-1	1008	0	1032	
SB162-2	1014	0	1032	
SB158-1	1030	0	1058	
SB158-2	1035	0	1109	
SB156-1	1038	0	1111	
SB156-2	1041	0	1112	
SB154-1	1105	0	1141	
SB154-2	1110	0	1141	
SB155-1	1113	0	1162	
SB155-2	1118	0	1153	
SB157-1	1124	0	1220	
SB157-2	1129	0	1221	
SB147-1	1232	0	1300	
SB147-2	1237	0	1300	
SB144-1	1243	0	1304	
SB144-2	1248	0	1305	
SB145-1	1255	0	1320	
SB145-2	1259	0	1321	
SB146-1	1310	0	1358	
SB146-2	1314	0	1359	
SB148-1	1323	0	1400	
SB148-2	1328	0	1401	
SB133-1	1341	0	1401	
SB133-2	1346	0	1402	

5/14/22

Sample ID	Start Time	P ID	Reading Time Pg8
SB132-1	1359	0	1427
SB132-2	1404	0	1428
SB129-1	1412	0	1450
SB129-2	1417	0	1456
SB130-1	1426	0	1457
SB130-2	1431	0	1458
SB131-1	1439	0	1458
SB131-2	1444	0	1459
SB124-1	1448	0	1522
SB124-2	1453	0	1523
SB125-1	1510	0	1541
SB125-2	1515	0	1542
SB126-1	1521	0	1552
SB126-2	1526	0	1553
SB127-1	1544	0	1623 1623
SB127-2	1549	0	1623
SB128-1	1553	0	1624
SB128-2	1558	0	1624
SB119-1	1637	0	1718
SB119-2	1642	0	1719
SB120-1	1645	0	1720
SB120-2	1700	0	1720
SB121-1	1709	0	1739
SB121-2	1714	0	1741
SB122-1	1721	0	1742
SB122-2	1726	0	1742
SB123-1	1738	0	1811
SB123-2	1743	0	1811
SB48-1	1755	0	1829
SB48-2	1800	0	1830
SB47-1	1806	0	1831
SB47-2	1810	0	1831

5/19/22

Sample ID	Start time	PID	Reading time	Page
SB46-1	1818	0	1846	
SB46-2	1823	0	1847	
SB45-1	1830	0	1856	
SB45-2	1835	0	1857	
SB44-1	1850	0	1918	
SB44-2	1855	0	1919	

1915 Equipment Blank ~~EB-520~~ EB-519 collected

1930 SB BGES off site

5-20-22

45° Sunny pg 10
0800 BGES + geotech onsite.
0915 C. Kent Calibrated PSD's
and performed Headspace Blank
0915 S. Bundy Slurp Samples

GAC Discharge Table

Time	Location	Amount
0926	SB 181	~ 1 gallon
1023	SB 39	~ 1 gallon
1206	SB 77	~ 1 gallon
1247	SB 84	~ 1 gallon
1435	SB 94	~ 1 gallon

1625 Equipment Blank (EB-520)
collected from Drilling Equipment

1650 BGES offsite

5-20-22

PID Screening Sample Table

Pg 11

Sample ID	Time Start	PID	Time Read
SB187-1	0925	0	1012
SB187-2	0930	0	1015
SB181-1	1012	0	1048
SB181-2	1021	0	1050
SB186-1	1041	0	1130
SB186-2	1046	0	1131
SB188-1	1105	0	1133
SB188-2	1112	0	1133
SB189-1	1124	0	1148
SB189-2	1129	0	1149
SB39-1	1140	0	1159
SB39-2	1145	0	1159
SB40-1	1150	0	1222
SB40-2	1156	0	1223
SB41-1	1206	0	1231
SB41-2	1211	0	1232
SB42-1	1218	0	1248
SB42-2	1226	0	1248
SB43-1	1238	0	1309
SB43-2	1243	0	1310
SB74-1	1301	0	1355
SB74-2	1306	0	1355
SB75-1	1324	0	1406
SB75-2	1329	0	1406
SB76-1	1335	0	1407
SB76-2	1341	0	1407
SB77-1	1342	0	1421
SB77-2	1351	0	1421
SB78-1	1408	0	1433
SB78-2	1410	0	1434
SB84-1	1418	0	1451
SB84-2	1423	0	1452

d

5/21/22 46°F Partly cloudy pg13
 0900 BGES & Grotzek onsite
 0918 PID Calibrated
 0920 Headspace Blank performed

GAC Discharge Table

Time	Location	Volume
1044	SB104	1 gallon
1240	SB114	1 gallon
1509	SB99	~ 1 gallon
1610	SB89	~ 1 gallon
1708	SB79	~ 1 gallon

5-21-22

P814

Page
Blank

5-21-22

Leadspace sample table

Pg 15

Sample ID	Start time	PAD	Read time
SB108-1	0955	0	1035
SB108-2	1000	0	1036
SB107-1	1006	0	1036
SB107-2	1011 1011	0	1037
SB104-1	1020 1021	0	1048
SB104-2	1023 1026	0	1049
SB105-1	1038	0	1057
SB105-2	1043	0	1057
SB106-1	1050	0	1115
SB106-2	1055	0	1116
SB116-1	1117	0	1152
SB116-2	1122	0	1153
SB114-1	1132	0	1229
SB114-2	1137	0	1230
SB118-1	1148	0	1231
SB118-2	1153	0	1231
SB115-1	1228	0	1303
SB115-2	1238	0	1303
SB117-1	1246	0	1318
SB117-2	1255	0	1318
SB112-1	1304	0	1349
SB112-2	1309	0	1350
SB110-1	1316	3	1351
SB110-2	1324	0	1351
SB104-1	1336	0	1405
SB109-2	1341	0	1405
SB111-1	1351	0	1426
SB111-2	1356	0	1426
SB113-1	1401	0	1427
SB113-2	1406	0	1428
SB102-1	1416	0	1453
SB102-2	1422	0	1453

5-21-22

Pg 16

Sample ID	Start time	PID	Read time
SB99-1	1434	0	1508
SB99-2	1439	0	1509
SB100-1	1448	0	1517
SB100-2	1453	0	1518
SB101-1	1505	0	1528
SB101-2	1510	0	1529
SB103-1	1516	0	1542
SB103-2	1521	0	1542
SB90-1	1525	0	1603
SB90-2	1530	0	1604
SB91-1	1536	0	1605
SB91-2	1541	0	1605
SB89-1	1548	0	1611
SB89-2	1554	0	1612
SB92-1	1602	0	1633
SB92-2	1607	0	1634
SB ⁹³ 92 -1	1600 1610	0	1641
SB ⁹³ 92 -2	1615	0	1642
SB79-1	1635	0	1656
SB79-2	1640	0	1658
SB80-1	1645	0	1712
SB80-2	1650	0	1713
SB81-1	1654	0	1714
SB81-2	1659	0	1714
SB82-1	1706	0	1723
SB82-2	1711	6	1724
SB83-1	1714	0	1731
SB83-2	1719	0	1733

5/21/22 Pg 17
 1730 Equipment blank ~~5/2~~ EB-521
 collected

1745 BGES + Geotek all sites.

Sample	Location	Time
SB72-1	1150	
SB73-1	1222	
SB73-2	1232	
SB73-1	1258	
SB73-2	1308	
SB74-1	1311	
SB74-2	1311	
SB75-1	1325	
SB75-2	1325	
SB76-1	1350	
SB76-2	1350	
SB77-1	1351	
SB77-2	1351	
SB78-1	1353	
SB78-2	1353	
SB79-1	1353	
SB79-2	1353	
SB80-1	1354	
SB80-2	1354	
SB81-1	1354	
SB81-2	1354	
SB82-1	1354	
SB82-2	1354	
SB83-1	1354	
SB83-2	1354	
SB84-1	1354	
SB84-2	1354	
SB85-1	1354	
SB85-2	1354	
SB86-1	1354	
SB86-2	1354	
SB87-1	1354	
SB87-2	1354	
SB88-1	1354	
SB88-2	1354	
SB89-1	1354	
SB89-2	1354	
SB90-1	1354	
SB90-2	1354	

5/22/22 46°F Partly Cloudy

0900 BGE's & Geotech onsite

0930 P3D's Calibration

0935 Headspace blank performed

COAC Discharge Table

Time	Location	Volume
1130	SB69	~ 1 gallon
1223	SB34	~ 1 gallon
1529	SB179	~ 1 gallon
1628	SB174	~ 1 gallon
1705	SB169	~ 1 gallon

0589 5/22/22

Pg 19

Sample ID	Start Time	PID	Read Time
SB71-1	1032	0	1107
SB71-2	1037	0	1107
SB69-1	1044	0	1109
SB69-2	1049	0	1113
SB71-1	1100	0	1128
SB71-2	1106	0	1129
SB72-1	1114	0	1159
SB72-2	1120	0	1200
SB73-1	1123	0	1201
SB73-2	1128	0	1202
SB37-1	1137	0	1205
SB37-2	1142	0	1205
SB35-1	1151	0	1221
SB35-2	1156	0	1222
SB36-1	1204	0	1229
SB36-2	1209	0	1229
SB34-1	1219	0	1236
SB34-2	1225	0	1236
SB38-1	1230	0	1300
SB38-2	1235	0	1301
SB185-1	1359	3	1453
SB185-2	1404	2	1453
SB184-1	1429	2	1454
SB184-2	1434	2	1455
SB183-1	1442	0	1515
SB183-2	1447	0	1515
SB182-1	1452	0	1516
SB182-2	1457	0	1517
SB179-1	1504	3	1532
SB179-2	1509	2	1532
SB174-1	1521	0	1547
SB174-2	1526	0	1548

5/22/22 56°F Fair

1320 All barging in the vicinity of
Horn 11 complete. BGES + Geotech
relocate to Horn 4 with AD part
maintenance escort.

1320	0	1100	2B11-2
1315	0	1100	2B11-2
1310	0	1100	2B11-2
1305	0	1100	2B11-2
1300	0	1100	2B11-2
1255	0	1100	2B11-2
1250	0	1100	2B11-2
1245	0	1100	2B11-2
1240	0	1100	2B11-2
1235	0	1100	2B11-2
1230	0	1100	2B11-2
1225	0	1100	2B11-2
1220	0	1100	2B11-2
1215	0	1100	2B11-2
1210	0	1100	2B11-2
1205	0	1100	2B11-2
1200	0	1100	2B11-2
1155	0	1100	2B11-2
1150	0	1100	2B11-2
1145	0	1100	2B11-2
1140	0	1100	2B11-2
1135	0	1100	2B11-2
1130	0	1100	2B11-2
1125	0	1100	2B11-2
1120	0	1100	2B11-2
1115	0	1100	2B11-2
1110	0	1100	2B11-2
1105	0	1100	2B11-2
1100	0	1100	2B11-2
1055	0	1100	2B11-2
1050	0	1100	2B11-2
1045	0	1100	2B11-2
1040	0	1100	2B11-2
1035	0	1100	2B11-2
1030	0	1100	2B11-2
1025	0	1100	2B11-2
1020	0	1100	2B11-2
1015	0	1100	2B11-2
1010	0	1100	2B11-2
1005	0	1100	2B11-2
1000	0	1100	2B11-2
955	0	1100	2B11-2
950	0	1100	2B11-2
945	0	1100	2B11-2
940	0	1100	2B11-2
935	0	1100	2B11-2
930	0	1100	2B11-2
925	0	1100	2B11-2
920	0	1100	2B11-2
915	0	1100	2B11-2
910	0	1100	2B11-2
905	0	1100	2B11-2
900	0	1100	2B11-2
855	0	1100	2B11-2
850	0	1100	2B11-2
845	0	1100	2B11-2
840	0	1100	2B11-2
835	0	1100	2B11-2
830	0	1100	2B11-2
825	0	1100	2B11-2
820	0	1100	2B11-2
815	0	1100	2B11-2
810	0	1100	2B11-2
805	0	1100	2B11-2
800	0	1100	2B11-2
755	0	1100	2B11-2
750	0	1100	2B11-2
745	0	1100	2B11-2
740	0	1100	2B11-2
735	0	1100	2B11-2
730	0	1100	2B11-2
725	0	1100	2B11-2
720	0	1100	2B11-2
715	0	1100	2B11-2
710	0	1100	2B11-2
705	0	1100	2B11-2
700	0	1100	2B11-2
655	0	1100	2B11-2
650	0	1100	2B11-2
645	0	1100	2B11-2
640	0	1100	2B11-2
635	0	1100	2B11-2
630	0	1100	2B11-2
625	0	1100	2B11-2
620	0	1100	2B11-2
615	0	1100	2B11-2
610	0	1100	2B11-2
605	0	1100	2B11-2
600	0	1100	2B11-2
555	0	1100	2B11-2
550	0	1100	2B11-2
545	0	1100	2B11-2
540	0	1100	2B11-2
535	0	1100	2B11-2
530	0	1100	2B11-2
525	0	1100	2B11-2
520	0	1100	2B11-2
515	0	1100	2B11-2
510	0	1100	2B11-2
505	0	1100	2B11-2
500	0	1100	2B11-2

5/22/22

Pg 21

Sample ID	Start time	DID	Read Time
SB176-1	1541	0	1610
SB176-2	1546	0	1610
SB175-1	1555	0	1612
SB175-2	1600	0	1634
SB177-1	1608	0	1633
SB177-2	1613	0	1634
SB178-1	1617	0	1634
SB178-2	1622	0	1635
SB171-1	1624	0	1651
SB171-2	1628	0	1652
SB170-1	1636	0	1655
SB176-2	1641	0	1653
SB169-1	1644	0	1659
SB169-2	1649	0	1700
SB172-1	1651	0	1712
SB172-2	1654	0	1713
SB173-1	1656	0	1715
SB173-2	1659	0	1715

5/23/22

PID Screening Table

Pg 23

Sample ID	Start Time	PID	Read time
SB24-1	1044	137	1134
SB24-2	1049	54	1137
SB25-1	1055	259	1150
SB25-2	1059	22	1154
SB26-1	1108	13	1201
SB26-2	1116	3	1205
SB27-1	1139	2	1211
SB27-2	1148	3	1213
SB28-1	1202	0	1223
SB28-2	1216	0	1220
SB4-1	1222	0	1252
SB4-2	1227	146	1253
SB5-1	1255	2	1314
SB5-2	1300	0	1315
SB6-1	1305	538	1343
SB6-2	1310	137	1355
SB7-1	1340	210	1433
SB7-2	1348	2	1445
SB8-1	1356	2	1451
SB8-2	1401	2	1452
SB2-1	1420	0	1507
SB2-2			
SB3-1	1434	0	1508
SB3-2			

1505 Equipment blank EB-523 collected
 1525 BGES off site.

5/25/22 - 5/26/22

PID Table

Sample ID	Start Time	PID	Read Time
SB1-1	2319	0	0003
SB142-1	2332	0	0005
SB142-2	2337	0	0005
SB189-1	2342	0	0006
SB189-2	2347	0	0006
SB140-1	2350	0	0020
SB190-2	2352	0	0020
SB191-1	2354	0	0021
SB191-2	2356	0	0021
SB193-1	2358	5	0023
SB193-2	2400	0	0022
SB19-1	0014	0	0040
SB19-2	0017	0	0041
SB20-1	0021	0	0044
SB20-2	0024	0	0045
SB21-1	0030	0	0046
SB21-2	0033	0	0047
SB22-1	0036	0	0102
SB22-2	0040	0	0103
SB23-1	0042	0	0121
SB23-2	0044	0	0122
SB24-1	0058	0	0122
SB29-2	0102	0	0123
SB30-1	0106	0	0125
SB30-2	0110	0	0126
SB31-1	0114	0	0134
SB31-2	0117	0	0135
SB32-1	0119	0	0150
SB32-2	0122	0	0152
SB33-1	0128	0	0154
SB33-2	0125	0	0154

5/26/22

pg 27 SB
Pg 26

Sample location	Start time	AJD	End Time
SB10-1	0149	0	0208
SB10-2	0152	0	0208
SB15-1	0157	0	0215
SB15-2	0200	0	0210
SB16-1	0204	0	0231
SB16-2	0207	0	0232
SB17-1	0209	0	0236
SB17-2	0212	0	0236
SB18-1	0215	0	0302
SB18-2	0214	0	0302
SB9-1	0232	X	insufficient material
SB9-2	0230	0	0303
SB11-1	0243	0	0310
SB11-2	0244	0	0310
SB12-1	0253	0	0311
SB12-2	0256	0	0312
SB13-1	0302	0	0340
SB13-2	0304	0	0341
SB14-1	0307	0	0341
SB14-2	0310	0	0342

Woods

0255

5/26/22

Pg 28 SB

Pg 27

0330 GAC Sample GAC-526 Collected
0350 Equipment blank EB-526 Collected
0400 BGEs off site.



Photo 1. HOM1-SS Vicinity



Photo 2. HOM4-SS Vicinity



Photo 3. HOM4-SS Vicinity



Photo 4. HOM6-SS Vicinity



Photo 5. HOM11-SS Vicinity



Photo 6. HOM11-SS Vicinity

Homer Airport
Homer, Alaska
Site Photographs

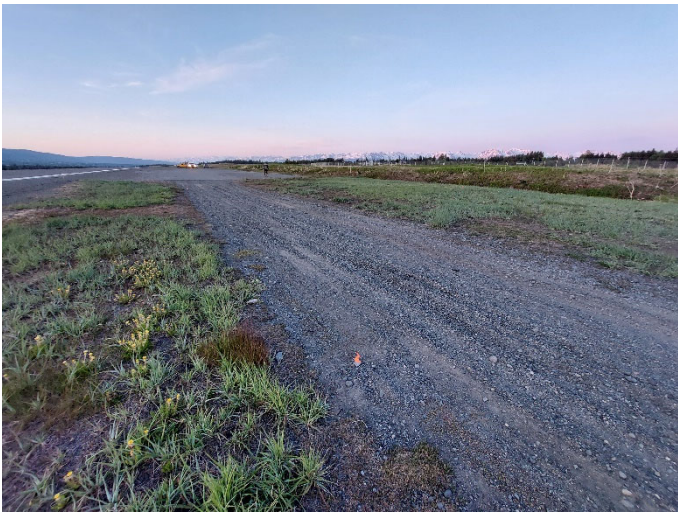


Photo 7. HOM13-SS Vicinity

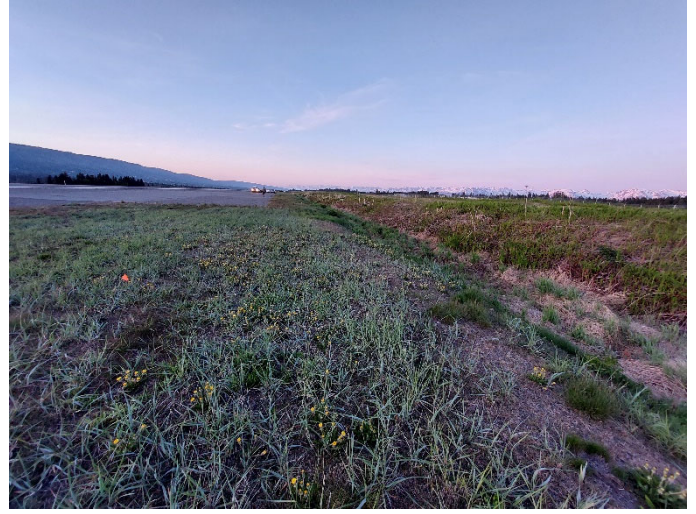


Photo 8. HOM13-SS Vicinity

Homer Airport
Homer, Alaska
Site Photographs

**APPENDIX B
SOIL BORING LOGS**

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Harmer Airport

SOIL BORING LOCATION: Ham-11

SOIL BORING NUMBER: SB152

Date: 5-18-20

Weather Conditions: 54°F Sunny 30.06" Hg

Start/End: 1135-1140

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: E. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB152-1	From: 0' to: 2.8' Time: 1142	0	85%	Brown moist sand
SB152-2	From: 2.5' to: 5' Time: 1145	0	85%	Brown moist sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB60

Date: 5-18-22

Weather Conditions: 55° Sunny 30.03" Hg

Start/End: 1251-1258

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB60-1	From: 0' to: 2.5' Time: 1303	0	70%	Brown moist sand
SB60-2	From: 2.5' to: 5' Time: 1306	0	70%	Brown moist sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB153

Date: 5-16-22

Weather Conditions: 54°F Sunny 30.06" Hg

Start/End: 1122-1128

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB153-1	From: <u>0.0</u> to: <u>2.5'</u> Time: <u>1135</u>	/	80%	Brown moist Sand
SB153-2	From: <u>2.5'</u> to: <u>5'</u> Time: <u>1139</u>	/	80%	Brown to grey moist Sand.
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB151

Date: 5-18-22

Weather Conditions: 55° F Sunny 30.08" Hg

Start/End: 1240-1250

Drilling Company/Rig Type: GeoTek Geoprobe 6610DI

Observer: E. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB151-1	From: 0' to: 2.5' Time: 1248	0	65%	Grey to brown moist sand
SB151-2	From: 2.5' to: 5' Time: 1253	0	65%	brown moist sand.
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB65

Date: 5-18-22

Weather Conditions: 52°F 20.87" Hg

Start/End: 1041-1045

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kelt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB65-1	From: 0' to: 2.5' Time: 1100	/	100%	grey to brown sand with gravel, dry to moist
SB65-2	From: 2.5' to: 5' Time: 1105	/	100%	Brown to grey sand, moist
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
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	From: to:	/		
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	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Honer Airport

SOIL BORING LOCATION: NO. 11

BGES, INC.
ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB53
Date: 5-18-22
Start/End: 1721-1725
Observer: e. kerns

Weather Conditions: 53°F Sunny 30.04"
Drilling Company/Rig Type: Geokon Geoprobe 6610DT
Drilling/Sampling Method: Direct Push Macrocane

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB53-1	From: 0' to: 2.5' Time: 1738	/	80%	grey to brown sand w/g gravel, Dry to moist
SB53-2	From: 2.5' to: 5' Time: 1744	/	80%	Brown Moist sand w/ peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headdress; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB137

SOIL BORING LOCATION: Hom-11

Date: 5-18-22
Start/End: 1605-1608
Observer: C. Kent

Weather Conditions: 54°F Sunny 30.04" Hg
Drilling Company/Rig Type: Geotek Geoprobe 6600DT
Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB137-1	From: 0' to: 2.5' Time: 1611	0	70%	Brown moist sand
SB137-2	From: 2.5' to: 5' Time: 1616	0	55%	brown moist sand from 2.5' - 4' brown moist peat from 4' - 5'
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom 11

SOIL BORING NUMBER: SB135

Date: 5-18-22

Weather Conditions: 55°F Sunny 30.06" Hg

Start/End: 1522-1526

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: E. Kent

Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB135-1	From: 0' to: 2.5 Time: 1544	/	75%	Brown moist sand
SB135-2	From: 2.5 to: 5' Time: 1549	/	75%	Brown moist sand w/ peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING NUMBER: 3B54

SOIL BORING LOCATION: Homer 11

Date: 5-18-22

Weather Conditions: 56°F Sunny 30.08" Hg

Start/End: 1401-1403

Drilling Company/Rig Type: Geotek Geoprobe 6610 PT

Observer: Colin

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
S354-1	From: 0' to: 2.5' Time: 1416	/	90%	Grey to brown sand w/ gravel, dry to moist
S354-2	From: 2.5' to: 5' Time: 1421	/	90%	brown sand w/ peat, moist
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Home Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB154

Date: 6-18-22
Start/End: 1115-1122
Observer: C. Kent

Weather Conditions: 53°F Sunny 30.06" Hg
Drilling Company/Rig Type: Geotek Geoprobe 6610 DT
Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB154-1	From: 0' to: 2.5' Time: 1132	/	80%	Brown moist sand w/ gravel
SB154-2	From: 2.5' to: 5' Time: 1134	/	80%	Brown moist to wet sand w/ peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB149

Date: 5-18-22

Weather Conditions: 54° Sunny 30.06" Hg

Start/End: 1141-1151

Drilling Company/Rig Type: Geotek Geoprobe 66101T

Observer: C. Kent

Drilling/Sampling Method: Direct Push macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB149-1 (SB149-3)	From: 0' to: 2.5' Time: 1151	/	80%	Brown to grey sand w/ gravel. Dry to moist
SB149-2	From: 2.5' to: 5' Time: 1155	/	80%	Brown moist sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected
 SB149-3 is a duplicate of SB149-1

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom 11

SOIL BORING NUMBER: SB134

Date: 5-18-22

Weather Conditions: 54° F Sunny 30.04" Hg

Start/End: 1521 - 1524

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB134-1 (SB134-3)	From: 0' to: 2.5' Time: 1531	0	66%	Grey to brown moist sand
SB134-2	From: 2.5' to: 5' Time: 1534	0	50%	brown to grey moist soil w/ peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB150

SOIL BORING LOCATION: 140M-11

Date: 5-18-22

Weather Conditions: 54°F Sunny 30.06" Hg

Start/End: 1205-1210

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocane

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB150-1	From: 0' to: 2.5' Time: 1238	0	80%	moist brown sand
SB150-2 (SB150-4)	From: 2.6' to: 5' Time: 1242	0	80%	moist brown sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB150-4 is a duplicate of SB150-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM11

SOIL BORING NUMBER: SB136

Date: 5-18-22


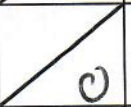










Weather Conditions: 54°F Sunny 30.04"

Start/End: 1550-1554

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB136-1	From: 0' to: 2.5' Time: 1558	 0	70%	Brown moist sand
SB136-2	From: 2.5' to: 5' Time: 1604	 0	70%	Brown moist sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Hamer Airport

SOIL BORING LOCATION: 110 n-11

BGES, INC.
ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB166

Date: 5-18-22

Weather Conditions: 50° F 29.87" Hg

Start/End: 1020-1024

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Katz

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB166-1	From: 0' to: 2.5' Time: 1029	0	90%	Grey to brown sand w/ gravel moist
SB166-2	From: 2.5' to: 5' Time: 1034	0	90%	Grey sand, moist
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB167

Date: 5-18-22

Weather Conditions: 46° F 29.87" Hg

Start/End: 0940 - 0944

Drilling Company/Rig Type: Geoprobe 6610 DT Geotek

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB167-1	From: 0' to: 2.5' Time: 0924	/	60%	Grey to brown sand w gravel Dry to moist
SB167-2	From: 2.5' to: 5' Time: 0926	/	60%	Brown sand sand, moist to wet
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient, H.S. = headspace, NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: ~~880119~~ Hom-4

SOIL BORING NUMBER: SB49

Date: 5-18-22

Start/End: 1637-1642

Observer: C. Kent

Weather Conditions:

Drilling Company/Rig Type:

Drilling/Sampling Method:

54°F Sunny 30.04" Hg
Geotek Geoprobe 6610DT
Direct push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB 49-1	From: 0 to: 2.5 Time: 1637	/	80%	Brown moist sandy soil
SB49-2 (SB49-4)	From: 2.5 to: 5 Time: 1642	/	40%	Brown moist sandy soil Brown moist peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

Duplicate Sample ID = SB 49-4
of SB 49-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: 140m11

SOIL BORING NUMBER: SB50

Date: 5-18-22

Weather Conditions: 53°F Sunny 30.04" Hg

Start/End: 1658-1701

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. KAT

Drilling/Sampling Method: Direct Push Macroseam

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB50-1	From: 0' to: 2.5' Time: 1704	/	60%	Brown moist soil
SB50-2	From: 2.5' to: 5' Time: 1709	/	60%	Brown moist soil 2.5'-4' Brown moist soil 4-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Honey Airport

SOIL BORING LOCATION: 140m11

SOIL BORING NUMBER: SB51

Date: 5-18-22

Weather Conditions: 54° F Sunny 30.04% Hg

Start/End: 1704 - 1708

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB51-1	From: 0' to: 2.5' Time: 1714	/	100%	Brown moist sand
SB51-2	From: 2.5' to: 5' Time: 1719	/	80%	Brown moist sand 2.5-3 Brown moist peat 3-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: 40M11

SOIL BORING NUMBER: SB52

Date: 5-18-22

Weather Conditions: 53° F Sunny 30.04" Hg

Start/End: 1721-1726

Drilling Company/Rig Type: Geotek Geoprobe 6610

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro-pne

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB52-1	From: 0' to: 2.5' Time: 1727	/	85%	moist brown sand
SB52-2	From: 2.5 to: 5' Time: 1732	/	8.5%	moist brown sand 2.5-4.25 moist brown peat 4.25-5
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.
ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Home Airport

SOIL BORING LOCATION: HOM-11

SOIL BORING NUMBER: SB141

Date: 5-18-22

Weather Conditions: 56°F Sunny 30.08" Hg

Start/End: 1436-1441

Drilling Company/Rig Type: Cocotte Geoprobe 6610 DT

Observer: C. Katz

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB141-1	From: 0' to: 1.5' Time: 1453	/	60%	Grey to brown moist sand w/ gravel
SB141-2	From: 2.5' to: 3' Time: 1458	/	70%	Brown to grey moist sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB142

SOIL BORING LOCATION: Hom-11

Date: 5-18-22

Weather Conditions: 56° F Sunny 32.09" Hg

Start/End: 1502-1507

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB142-1	From: 0' to: 2.5' Time: 1508	/	80%	Brown moist sand
SB142-2	From: 2.5' to: 5' Time: 1513	/	80%	Brown moist sand w/ peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB139

SOIL BORING LOCATION: Home-1

Date: 5-18-22

Weather Conditions: 56°F Sunny 30.05" Hg

Start/End: 1419-1422

Drilling Company/Rig Type: Geotech Geoprobe 6610 DT

Observer: C. Kat

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB139-1	From: 0' to: 2.5' Time: 1428	/	80%	Brown moist sand
SB139-2 (SB139-4)	From: 2.5' to: 5' Time: 1432	/	85%	Brown to grey moist sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB139-4 is a duplicate of SB139-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: LDL
PROJECT: Harmer Airport

SOIL BORING LOCATION: A04-11

SOIL BORING NUMBER: SB140

Date: 5-18-22

Weather Conditions: 56°F Sunny 30.05" Hg

Start/End: 1430-1433

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocors

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB140-1	From: 0' to: 2.5' Time: 1441	/	70%	Brown moist sand
SB140-2	From: 2.5' to: 5' Time: 1444	/	80%	Brown to grey moist sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB143

SOIL BORING LOCATION: Hom-11

Date: 5-18-22

Weather Conditions: 54°F 30.04" Hg

Start/End: 1515-1518

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Katz

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB143-1	From: 0' to: 2.5' Time: 1518	/	55%	Brown moist sand
SB143-2	From: 2.5' to: 5' Time: 1523	/	55%	Grey clay w/ sand, moist
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom-11

SOIL BORING NUMBER: SB138

Date: 5-18-22

Weather Conditions:

54°F Sunny 30.04" itg

Start/End: 1610 - 1616

Drilling Company/Rig Type:

Geotek Geoprobe 6610 DT

Observer: E-KWT

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB138-1	From: 0 to: 2.5' Time: 1621	/	85%	Brown moist soil
SB138-2	From: 2.5' to: 5' Time: 1626	/	85%	Brown moist soil 2.5-4', Brown moist peat 4-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB135

SOIL BORING LOCATION: Hom-11

Date: 5-16-22

Weather Conditions: 54°F Sunny 30.01" Hg

Start/End: 1538 - 1542

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB135-1	From: 0' to: 2.5' Time: 1544	0	70%	grey to brown sand w/ gravel moist
SB135-2	From: 2.5' to: 5' Time: 1549	0	35% compressed	Brown moist peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

18

CLIENT: HDL
PROJECT: Hoover Airport

SOIL BORING NUMBER: SB 55

SOIL BORING LOCATION: Hom-11

Date: 5-18-22

Weather Conditions: 56° F Sunny 30.06" Hg

Start/End: 1355-1359

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: CKH

Drilling/Sampling Method: Direct push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB55-1	From: 0' to: 2.5' Time: 1404	0	65%	Brown to grey moist sand
SB55-2	From: 2.5' to: 5' Time: 1408	0	75%	Brown to grey moist sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDI
PROJECT: Hammer Airport

SOIL BORING NUMBER: SB164

SOIL BORING LOCATION: Ham-11

Date: 5-18-22

Weather Conditions: 50° F 29.87" Hg

Start/End: 0959 - 1603

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kat

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB164-1	From: 0 to: 2.5 Time: 1008	0	75%	Grey to brown sand w/ gravel Dry to moist
SB164-2	From: 2.5 to: 5 Time: 1011	0	75%	Brown sand moist & 4-5' by brown moist peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom - 4

Date: 5-18-22













Weather Conditions: 50°F 29.87" Hg

Start/End: 1010-1014

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB105-1	From: 0' to: 2.5' Time: 1014	 0	60%	Brown sand, moist
SB105-2	From: 2.5' to: 5' Time: 1018	 0	60%	Brown moist sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB67

SOIL BORING LOCATION: Hom-11

Date: 5-18-22

Weather Conditions: 46°F Sunny 29.87" Hg

Start/End: 0900 - 0921

Drilling Company/Rig Type: Geotek, Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB67-1	From: 0' to: 2.5' Time: 0924	/	100%	Brown, sand w/ gravel, dry to moist
SB67-2	From: 2.5' to: 5' Time: 0926	/	100%	Brown sand moist to wet
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB168

SOIL BORING LOCATION: HOM-11

Date: 5-18-22

Weather Conditions: 46° F 29.87" Hg

Start/End: 0928-0932

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB168-1	From: 0 to: 2.5 Time: 0940	/	100%	Brown mixed sand w/ gravel. Dry
SB168-2	From: 2.5 to: 6 Time: 0945	/	100%	Brown sand, moist to wet
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB58

SOIL BORING LOCATION: Homer

Date: 5-18-22

Weather Conditions: 55° F Sunny 30.08" Hg

Start/End: 1259-1309

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB58-1 (SB58-3)	From: 0 to: 2.5 Time: 1324	0	65%	Brown moist sand
SB58-2	From: 2.5 to: 5 Time: 1330	0	95%	Brown sand w/ peat. wet to moist
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB57

SOIL BORING LOCATION: Hom-11

Date: 5-15-22

Weather Conditions: 55°F Sunny 32.08" Hg

Start/End: 1312 - 1316

Drilling Company/Rig Type: Geo tek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB57-1	From: 0' to: 2.5' Time: 1334	0	80%	Brown moist sand
SB57-2	From: 2.5' to: 5' Time: 1339	0	80%	Brown to gray moist sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

17

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB56

SOIL BORING LOCATION: Hom-11

Date: 5-18-22

Weather Conditions: 56°F Sunny 30.08" Hg

Start/End: 1340-1346

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C.K. K

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB56-1	From: 0' to: 2.5' Time: 1345	0	100%	Brown to grey moist sand
SB56-2	From: 2.5' to: 5' Time: 1350	0	100%	Brown to grey moist sand w/ peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: 40M11

SOIL BORING NUMBER: SB44

Date: 5-19-22

Weather Conditions: 53° F Sunny 30.42" Hg

Start/End: 1640-1844

Drilling Company/Rig Type: Geotek Deepprobe 66100T

Observer: C. Hunt

Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB44-1	From: 0' to: 2.5' Time: 1850	/		Brown moist peat
SB44-2	From: 2.5' to: 5' Time: 1855	/		Brown moist peat 2.5'-4' grey moist sand w/ silt 4'-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB47

SOIL BORING LOCATION: Homer

Date: 5-14-22

Weather Conditions: 54° F Sunny 30.42" Hg

Start/End: 1755-1757

Drilling Company/Rig Type: Geotek Geoprobe 6610UT

Observer: a.kh

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB47-1	From: 0' to: 2.5' Time: 1805	/	80%	Brown moist peat
SB47-2	From: 2.5' to: 5' Time: 1810	/	80%	Grey moist soil
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG



CLIENT: HDL
PROJECT: Honolulu Airport

SOIL BORING LOCATION: 140M11

SOIL BORING NUMBER: SB46

Date: 5-19-22
Start/End: 1805-1810
Observer: C. Leht

Weather Conditions: 54° F Sunny 30.42" Hg
Drilling Company/Rig Type: Geotek Geo probe 6610 AT
Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB46-1	From: 0 to: 2.5 Time: 1818	/	80%	Brown moist peat
SB46-2	From: 2.5 to: 5 Time: 1823	/	80%	Brown moist peat 2.5-4' Grey moist sand w/ silt. 4'-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: 1412
PROJECT: Wamer Airport

SOIL BORING LOCATION: 1412

SOIL BORING NUMBER: SB45

Date: 5-19-22

Weather Conditions: 54°F Sunny 30.42" Hg

Start/End: 1820-1824

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Leak

Drilling/Sampling Method: Direct push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB45-1 (SB45-3)	From: 0' to: 2.5' Time: 1830	0	80%	Brown moist peat
SB45-2 (SB45-4)	From: 2.5' to: 5' Time: 1835	0	90%	Brown to grey moist sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected
 SB45-3 is a duplicate of SB45-1
 SB45-4 is a duplicate of SB45-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom 11

SOIL BORING NUMBER: SB123

Date: 5-19-22

Weather Conditions: 55° F Sunny 30.46" Hg

Start/End: 1722-1722

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro cone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB123-1	From: 0' to: 2.5' Time: 1738	/	957.	grey moist sand
SB123-2	From: 2.5' to: 5' Time: 1743	/	807.	grey moist sand 2.5'-3.5' brown moist peat 3.5'-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB48

SOIL BORING LOCATION: 170 m 11

Date: 5-19-22

Weather Conditions: 54° F Sunny 30.43" Hg

Start/End: 1742-1746

Drilling Company/Rig Type: Geotek Geoprobe 66007

Observer: C. KAT

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB48-1	From: 0' to: 2.5' Time: 1755	0	100%	Brown moist sand
SB48-2	From: 2.5' to: 5' Time: 1800	0	60%	Brown moist Pent
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SBI21

SOIL BORING LOCATION: 140M4

Date: 5-14-22

Weather Conditions: 59° F Sunny 30.52" Hg

Start/End: 1650-1655

Drilling Company/Rig Type: Geo tek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SBI21-1	From: 0' to: 2.5' Time: 1709	/	80%	Brown moist to wet peat w/ sand
SBI21-2	From: 2.5' to: 5' Time: 1714	/	80%	Grey so moist sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB122

SOIL BORING LOCATION: HOM 11

Date: 5-19-22

Weather Conditions: 55° F Sunny 30.47" Hg

Start/End: 1719 - 1719

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kuhl

Drilling/Sampling Method: Direct Push Macroprobe

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB122-1 (SB122-3)	From: 0' to: 2.5' Time: 1721	/	100%	Brown moist sand
SB122-2	From: 2.5' to: 5' Time: 1726	/	70%	Brown moist peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB122-3 is a duplicate of SB122-1

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: ~~SB119~~ SB119

SOIL BORING LOCATION: 140M4

Date: 5-19-27

Weather Conditions:

57° K Sunny 30.32" Hg

Start/End: 1622-1626

Drilling Company/Rig Type:

Geotek Geoprobe 6610 DT

Observer: C. KAT

Drilling/Sampling Method:

Direct Push Monitors

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB119-1	From: 0' to: 2.5' Time: 1637	/	80%	Brown pe-L w/sand, moist (dry)
SB119-2	From: 2.5' to: 5' Time: 1642	/	90%	Grey moist sand w/silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB120

SOIL BORING LOCATION: 140 MW

Date: 5-19-22


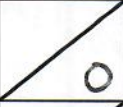

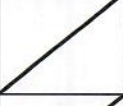








Weather Conditions: 59° F Sunny 30.32" Hg

Start/End: _____

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Hart

Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB120-1	From: 0' to: 2.5' Time: 1655	 0	90%	Brown moist peat w/ sand
SB120-2	From: 2.5' to: 5' Time: 1700	 0	90%	Brown to grey sand w/ silt, moist
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Home Airport

SOIL BORING LOCATION: Ham 11

SOIL BORING NUMBER: SB127

Date: 5-19-22

Weather Conditions:

59°F Sunny 30.32" Hg

Start/End: 1531-1536

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: C. KLT

Drilling/Sampling Method:

Direct Push Monocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB127-1	From: 0' to: 2.5' Time: 1544	0	80%	Brown moist peat w/ sand
SB127-2	From: 2.5' to: 5' Time: 1549	0	80%	tan moist sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Heaver Airport

SOIL BORING LOCATION: NO 11

SOIL BORING NUMBER: SB128

Date: 5-11-22

Weather Conditions: 69°F Sunny 30.32" Hg

Start/End: 1541-1545

Drilling Company/Rig Type: Geotech Geoprobe 6610DI

Observer: C. Kunt

Drilling/Sampling Method: Direct Push Macrocors

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB128-1	From: 0 to: 2.5' Time: 1553	0	90%	Brown moist peat
SB128-2	From: 2.5' to: 5' Time: 1558	0	90%	Brown moist peat from 2.5'-4.5' grey sand w/ silt from 4.5'-5'
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM 11

BGES, INC.
ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB126

Date: 5-19-22

Weather Conditions: 590 F Sunny

Start/End: 1516 - 1526

Drilling Company/Rig Type: Geotek Geoprobe 6010DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB126-1	From: 0' to: 2.5' Time: 1521	/	80%	Brown moist pert. w/ sand
SB126-2	From: 2.5' to: 5' Time: 1526	/	85%	Grey moist sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB125

SOIL BORING LOCATION: Home 11

Date: 5-17-22

Weather Conditions: 59° F Sunny 30-32" Hg

Start/End: 1458-1503

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kelt

Drilling/Sampling Method: Direct Push Macrocon

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB125-1	From: 0' to: 2.5' Time: 1510	/	70%	Brown moist peat w/ sand
SB125-2	From: 2.5' to: 5' Time: 1515	/	80%	Brown moist peat w/ sand from 2.5'-3.5'; grey moist silt w/ sand from 3.5'-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB124

SOIL BORING LOCATION: 140m11

Date: 5-19-22

Weather Conditions: 159° E Sunny 30-32°

Start/End: 1435-1439

Drilling Company/Rig Type: Geotek Geoprobe G610 BT

Observer: C. Kat

Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB124-1	From: 0' to: 2.5' Time: 1447	/	70%	Brown moist peat w/ sand
SB124-2 (SB124-4)	From: 2.5' to: 5' Time: 1453	/	90%	Brown to tan sand w/ peat moist
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB132

SOIL BORING LOCATION: Idom 11

Date: 5-19-22

Weather Conditions: 56° F Sunny 30.32% Hg

Start/End: 1340-1348

Drilling Company/Rig Type: Geotek Geoprobe 661010T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB132-1	From: 0' to: 2.5' Time: 1359	/	90%	Brown moist to wet peat w/ sand
SB132-2	From: 2.5' to: 5' Time: 1404	/	90%	tan w/ brown, wet to moist. sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB129

SOIL BORING LOCATION: Hami

Date: 5-14-22

Weather Conditions: 57°F Sunny 30-32" Hg

Start/End: 1400-1406

Drilling Company/Rig Type: Geotech Group rabe 661019

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro Core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB129-1	From: 0' to: 2.5' Time: 1412	/	70%	Brown moist peat 0'-1' Tan ^{moist} sand w/ silt 1'-2.5'
SB129-2	From: 2.5' to: 5' Time: 1417	/	90%	Tan moist sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

157

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB130

SOIL BORING LOCATION: 140M/1

Date: 5-19-22

Weather Conditions: 59° R. Sunny 30.32" Hg

Start/End: 1410-1415

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB130-1	From: 0 to: 2.5' Time: 1426	/		0-1' moist brown peat 1'-2.5' tan sand w/ gravel
SB130-2	From: 2.5' to: 5' Time: 1431	/		tan sand w/ gravel and silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.
ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB131

SOIL BORING LOCATION: HOM 11

Date: 5-19-22

Weather Conditions: 59° F Sunny 30.32" Hg

Start/End: 1427-1432

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kat

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB131-1	From: 0' to: 2.5' Time: 1439	/	80%	Brown moist sand w/ peat
SB131-2	From: 2.5' to: 5' Time: 1444	/	80%	Brown to black sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM11

SOIL BORING NUMBER: SB146

Date: 5-14-22

Weather Conditions: 56°F Sunny 30.32" Hg

Start/End: 1255-1300

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C.Myl

Drilling/Sampling Method: Direct Push Monocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB146-1	From: 0' to: 2.5' Time: 1310	0	80%	Brown moist peat
SB146-2	From: 2.5' to: 5' Time: 1315	0	80%	tan sand w/ silt, marsh.
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB148

SOIL BORING LOCATION: Hom 11

Date: 5-19-22

Weather Conditions: 56°F Sunny

Start/End: 1312-1317

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: E. K. W.

Drilling/Sampling Method: Direct Push Macro cone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB148-1	From: 0' to: 2.5' Time: 1323	/	70%	brown moist peat
SB148-2	From: 2.5' to: 5' Time: 1328	/	70%	brown to tan sand with peat moist lower
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB133

SOIL BORING LOCATION: HOM11

Date: 5-14-22

Weather Conditions: 56°F Sunny 30.32" Hg

Start/End: 1327-1332

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Hart

Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB133-1 (SB133-3)	From: 0 to: 2.5' Time: 1341	/		Brown moist sand w/ peat
SB133-2	From: 2.5' to: 5' Time: 1346	/		tan moist sand w/ peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HPL
PROJECT: Heener Airport

SOIL BORING NUMBER: SB145

SOIL BORING LOCATION: Ham 11

Date: 5.19.22

Weather Conditions: 57° F Sunny 30.32" Hg

Start/End: 1245-1249

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. Hunt

Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB145-1	From: 0' to: 2.5' Time: 1255	/	/	90%	Brown moist to damp peat
SB145-2	From: 2.5' to: 5' Time: 1259	/	/	90%	Brown wet sand w/ peat 2.5-4 tan sand w/ salt moist from 4-5'
	From: to: Time:	/	/		
	From: to: Time:	/	/		
	From: to: Time:	/	/		
	From: to: Time:	/	/		
	From: to: Time:	/	/		
	From: to: Time:	/	/		
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	From: to: Time:	/	/		
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	From: to: Time:	/	/		
	From: to: Time:	/	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB147

SOIL BORING LOCATION: 40211

Date: 5-19-22

Weather Conditions: 59°K Sunny 30.32"Hg

Start/End: 1210-1214

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB147-1	From: 0' to: 2.5' Time: 1232	0	80%	Brown moist to wet peat w/ sand
SB147-2 (SB147-4)	From: 2.5 to: 5' Time: 1237	0	80%	Brown to tan sand w/ silt. wet to moist
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: 40M11

SOIL BORING NUMBER: SB144

Date: 5-19-22

Weather Conditions: 51° F Sunny 30.32" Hg

Start/End: 1220-1226

Drilling Company/Rig Type: Geotek Geoprobe G610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB144-1	From: 0' to: 2.5' Time: 1243	/	90%	brown moist peat
SB144-2	From: 2.5' to: 5' Time: 1248	/	90%	brown to tan moist to wet part w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG



CLIENT: HUDL
PROJECT: Homer Airport

SOIL BORING LOCATION: H0M11

SOIL BORING NUMBER: SB155

Date: 5-19-22

Weather Conditions: 56°F Sunny 30.32" Hg

Start/End: 1055-1101

Drilling Company/Rig Type: Cedex Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Americore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB155-1	From: 0' to: 2.5' Time: 1113	0	80%	Brown moist sand with peat
SB155-2	From: 2.5' to: 5' Time: 1113	0	80%	Tan to brown moist to wet sand w/ peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB154

SOIL BORING LOCATION: HOM11

Date: 5-19-22

Weather Conditions: 56°F Sunny 30.34" Hg

Start/End: 1050 - 1054

Drilling Company/Rig Type: Geotek Geoprobe 6610PT

Observer: L. Hunt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB154-1	From: 0' to: 2.5' Time: 1105	0	90%	Brown moist peat w/ sand
SB154-2	From: 2.5' to: 5' Time: 1110	0	90%	Brown to tan moist to wet sand w/ peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: Home 11

SOIL BORING NUMBER: SB157

Date: 5-19-22

Weather Conditions: 57°F Sunny 30.32" Hg

Start/End: 1113-1116

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocor

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB157-1	From: 0' to: 2.5' Time: 1124	/	85%	Brown moist sand w/ peat
SB157-2	From: 2.5' to: 5' Time: 1129	/	85%	tan moist sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Hamer Airport

SOIL BORING LOCATION: Hom 11



BGES, INC.
ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB159

Date: 5-19-22

Weather Conditions: 55° F Sunny 30. 32" Hg

Start/End: 0910 - 0915

Drilling Company/Rig Type: Geotek Geoprobe 6610 UT

Observer: E. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB159-1	From: 0' to: 2.5' Time: 0926	/	80%	Brown to tan sand w/ peat and silt, moist to wet
SB159-2	From: 2.5' to: 5' Time: 0931	/	80%	Tan sand w/ silt moist to wet
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.
ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: 40m11

SOIL BORING NUMBER: SB160

Date: 5-19-22

Weather Conditions: 54° F Sunny 30-32" Hg

Start/End: 0935-0941

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB160-1	From: 0' to: 2.5' Time: 0947	/	80%	Brown moist to wet sand w/ peat
SB160-2	From: 2.5' to: 5' Time: 0952	/	80%	Brown to tan sand with peat, wet to moist
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom 11

SOIL BORING NUMBER: SB161

Date: 5-17-72

Weather Conditions: 65° F Sunny 30.34" Hg

Start/End: 0950-0955

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB161-1	From: 0' to: 2.5' Time: 0957	0	75%	Grey moist sand w/ brown peat
SB161-2	From: 2.5' to: 5' Time: 1002	0	75%	Brown sand with peat, moist to wet
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
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	From: to:			
	From: to:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Horn's Airport

SOIL BORING NUMBER: SB158

SOIL BORING LOCATION: Horn 11

Date: 5-19-22

Weather Conditions: 56°F Sunny 30.32%Hg

Start/End: 1020-1025

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Mat

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB158-1	From: 0' to: 2.5' Time: 1030	0	65%	Brown moist sand w/ peat
SB158-2	From: 2.5' to: 5' Time: 1035	0	65%	brown moist peat w/ sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: Home 17

Date: 5-19-22

Weather Conditions: 55°F Sunny 30.32" Hg

Start/End: 1020-1028

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: E. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB156-1 (SB156-3)	From: 0' to: 2.5' Time: 1037	/	65%	Brown moist sand
SB156-2	From: 2.5' to: 5' Time: 1041	/	65%	Brown moist sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB156-3 is a duplicate of SB156-1

BGES, INC.
SOIL BORING LOG



CLIENT: HOL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB163

SOIL BORING LOCATION: Hom-11

Date: 5-19-22
Start/End: 0845 - 0851
Observer: C. Kent

Weather Conditions: 52°F Sunny 30.32" Hg
Drilling Company/Rig Type: Geotek Geoprobe 6610DT
Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB163-1	From: 0' to: 2.5 Time: 0912	/	80%	Moist brown sand w/ peat
SB163-2	From: 2.5 to: 5 Time: 0918	/	80%	Moist brown sand w/ peat from 2.5-4.5 wet grey sand w/ silt from 4.5-5
(SB163-4)	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB163-4 is a duplicate of SB163-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING LOCATION: 140m/1

SOIL BORING NUMBER: SB97

Date: 5-20-22

Weather Conditions: 45°F Partly Cloudy 30.30" Hg

Start/End: 1532-1536

Drilling Company/Rig Type: Geotek Geoprobe 6610107

Observer: C. Kent

Drilling/Sampling Method: Direct Push Microcon

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB97-1	From: 0 to: 2.5 Time: 1557		0	50%	Wet brown peat
SB97-2	From: 2.5 to: 5' Time: 1602		0	60%	wet to moist grey sand w/ silt
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB98

SOIL BORING LOCATION: 140M11

Date: 5-20-22
Start/End: 1600-1603
Observer: C. Kay

Weather Conditions: 55°F Partly cloudy 30-30" Hg
Drilling Company/Rig Type: Geotech Geoprobe 6610 DT
Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB98-1	From: 0 to: 2.5' Time: 1609	/	80%	moist brown peat
SB98-2	From: 2.5 to: 5' Time: 1614	/	90%	moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

CLIENT: ADL
PROJECT: Home Airport

BGES, INC.

ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB96

SOIL BORING LOCATION: Ham 1

Date: 5-20-22

Weather Conditions: 56°F Partly cloudy 30.30" Hg

Start/End: 1516-1520

Drilling Company/Rig Type: Geotek Geoprobe 6600T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB96-1	From: 0 to: 2.5' Time: 1535 1542	/	55%	Moist to wet brown peat
SB96-2	From: 2.5 to: 5' Time: 1548	/	55%	Wet to moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB95

Date: 5-20-11

Start/End: 1510-1513

Observer: C. Kent

BGES, INC. SOIL BORING LOG

CLIENT: NIDL
PROJECT: Home Airport

SOIL BORING LOCATION: Ham 11

Weather Conditions: 56° F Partly Cloudy 30.30" Hg
Drilling Company/Rig Type: Geotek Geoprobe 6610DF
Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB95-1	From: 0 to: 2.5' Time: 1529	/	45%	Moist brown peat
SB95-2 (SB95-4)	From: 2.5' to: 5' Time: 1535	/	75%	Moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG



CLIENT: HDL
PROJECT: Veter Affairs

SOIL BORING LOCATION: 140M11

SOIL BORING NUMBER: SB94

Date: 5-20-22

Weather Conditions: 56°F Mostly Cloudy 30-30" Hg

Start/End: 1502-1507

Drilling Company/Rig Type: Geotech Geoprobe 6600T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro Core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB94-1	From: 0 to: 2.5'	/	50%	0-1.5 moist brown peat
	Time: 1518			1.5-2.5 moist grey sand w/ silt
SB94-2	From: 2.5' to: 5'	/	65%	moist grey sand w/ silt
	Time: 1523			
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOA/1

SOIL BORING NUMBER: SBB7

Date: 5-20-72

Weather Conditions: 56°F Mostly Cloudy 30-20" Hg

Start/End: 1441-1447

Drilling Company/Rig Type: Cooker Geoprobe 66/0 RT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SBB7-1	From: 0 to: 2.5' Time: 1454	/	90%	Moist to wet brown peat
SBB7-2	From: 2.5 to: 5' Time: 1454	/	100%	wet brown peat 2.5-3' moist grey sand w/ silt 3'-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Hemer Airport

SOIL BORING LOCATION: Nom-1

SOIL BORING NUMBER: SB88

Date: 5-20-72

Weather Conditions: 56°F mostly cloudy 30.20" Hg

Start/End: 1451-1457

Drilling Company/Rig Type: Geotech Geoprobe 6110

Observer: C. Kent

Drilling/Sampling Method: Direct Push Monocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB88-1	From: 0 to: 2.5' Time: 1505	/	70%	Moist brown part 0-1' moist grey sand w/ silt 1-2.5'
SB88-2	From: 2.5 to: 5' Time: 1510	/	90%	moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING LOCATION: Horn 11

SOIL BORING NUMBER: SB84

Date: 5-20-22

Weather Conditions: 54°F mostly cloudy 30.20"Hg

Start/End: 1402-1407

Drilling Company/Rig Type: Geotek Geoprobe 6610 OT

Observer: C. Keef

Drilling/Sampling Method: Direct push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB84-1	From: 0 to: 2.5' Time: 1418	/	65%	Moist brown peat 0-1' Moist grey sand w/ silt 1'-2.5'
SB84-2	From: 2.5' to: 5' Time: 1423	/	70%	Moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Wenonah Airport

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ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB85

SOIL BORING LOCATION: HOA 11

Date: 3-20-72

Weather Conditions: 56° F Mostly Cloudy

Start/End: 1410-1415

Drilling Company/Rig Type: Geotek Geoprobe 661057

Observer: C. KAL

Drilling/Sampling Method: Direct push macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB85-1 (SB85-3)	From: 0 to: 2.5'	/	55%	0-0.75' wet brown peat
	Time: 1429			0
SB85-2	From: 2.5' to: 5'	/	60%	moist grey sand w/ silt
	Time: 1434			0
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB85-3 : a duplicate of SB85-1

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HDM11

SOIL BORING NUMBER: SB86

Date: 5-20-22

Weather Conditions: 56°F Mostly Cloudy 30.20" Hg

Start/End: 1421-1426

Drilling Company/Rig Type: Geotek Geoprobe 6616DT

Observer: R. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB86-1	From: 0 to: 2.5' Time: 1443	0	75%	Moist brown pent
SB86-2	From: 2.5' to: 5' Time: 1448	0	75%	moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

SOIL BORING NUMBER: SB78

Date: 5-20-12

Start/End: 1350-1353

Observer: E. Kent

BGES, INC.
SOIL BORING LOG

CLIENT: HDC
PROJECT: Home Airport

SOIL BORING LOCATION: Home 11

Weather Conditions: 54°F mostly cloudy 30-20" Hg
Drilling Company/Rig Type: Geotek Geoprobe 6610DT
Drilling/Sampling Method: Direct Push Macroseal

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB78-1	From: 0 to: 2.5' Time: 1408	/	90%	Moist brown peat 0-1' moist grey sand w/ silt 1'-2.5'
SB78-2 (SB78-4)	From: 2.5 to: 5 Time: 1410	/	95%	moist grey to brown sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB77

SOIL BORING LOCATION: HOM 11

Date: 5-20-22

Weather Conditions: 54° F mostly cloudy 30. 20" Hg

Start/End: 1331-1336

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Knf

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB77-1	0	2.5'			85%	moist brown silt
	Time:	1342	0			
SB77-2	2.5'	5'			85%	moist grey sand w/ silt
	Time:	1351	0			
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected



ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Wagner Airport

SOIL BORING NUMBER: SB74

SOIL BORING LOCATION: HDM11

Date: 5-20-22

Weather Conditions: 54° F Mostly Cloudy 30-20" Hg

Start/End: 1245-1250

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB74-1	From: 0 to: 2.5 Time: 1301	/	50%	grey to brown moist sand w/ silt
SB74-2	From: 2.5 to: 5' Time: 1306	/	55%	grey to brown moist sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Amey Airport

SOIL BORING LOCATION: SIID Hom 4

SOIL BORING NUMBER: SB75

Date: 5-20-12

Weather Conditions: 54°F mostly cloudy 30.20" Hg

Start/End: 1250-1255

Drilling Company/Rig Type: Geotek Geoprobe 661011T

Observer: C. KAT

Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB75-1	From: 0 to: 2.5' Time: 1324	/	85%	Moist brown peat w/ sand
SB75-2	From: 2.5' to: 5' Time: 1329	/	85%	moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Home Airport

SOIL BORING LOCATION: 110M11

SOIL BORING NUMBER: SB76

Date: 5-20-22

Weather Conditions: 54°F Mostly Cloudy 30.20" Hg

Start/End: 1312-1316

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB76-1	From: 0 to: 2.5'	/	100%	0-2' moist brown peat 2'-2.5' moist grey/brown sand w/ silt
	Time: 1335			
SB76-2	From: 2.5' to: 5'	/	100%	2'-2.5' moist grey sand w/ silt
	Time: 1341			
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hom11

SOIL BORING NUMBER: SB43

Date: 5-20-22

Weather Conditions: 54° F Mostly Cloudy 30.20" Hg

Start/End: 1201-1204

Drilling Company/Rig Type: Geotec Geoprobe 6610BT

Observer: E. Kent

Drilling/Sampling Method: Direct Push Macrocure

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB43-1	From: 0 to: 2.5' Time: 1238	/	80%	moist brown peat
SB43-2	From: 2.5' to: 5' Time: 1243	/	95%	moist brown peat 2.5'-3.75' • moist grey sand w/ silt from 3.75'-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Horne Airport

SOIL BORING LOCATION: Hamli

SOIL BORING NUMBER: SB42

Date: 5-20-22

Weather Conditions: 54° F Partly cloudy 30-30" Hg

Start/End: 1125-1129

Drilling Company/Rig Type: Geotek Geoprobe 6610 AT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Masterson

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB42-1 (SB42-3)	From: 0 to: 2.5' Time: 1218	/	65%	0-1.5' Brown dry peat w/ ash 1.5-2.5' dry grey sand w/ silt and gravel
SB42-2	From: 2.5' to: 5' Time: 1226	/	70%	2.5-5' Dry to moist grey sand w/ silt and gravel
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB42-3 is a duplicate of SB42-1

BGES, INC.
SOIL BORING LOG



ENVIRONMENTAL CONSULTANTS

CLIENT: HOL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB40

SOIL BORING LOCATION: HOM1

Date: 9-20-22

Weather Conditions: 56° F Partly cloudy 30.40" Hg

Start/End: 1130 - 1135

Drilling Company/Rig Type: Geotek Geoprobe 6600T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB40-1	From: 0 to: 2.5' Time: 1150	/	75%	Brown dry to wet peat
SB40-2	From: 2.5' to: 5' Time: 1156	/	85%	Brown wet to moist peat 2.5'-4.5' Grey moist sand w/ silt 4.5'-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Honolulu Airport

SOIL BORING LOCATION: 140M11

SOIL BORING NUMBER: SB41

Date: 5-20-72

Weather Conditions: 54°E Partly Cloudy 30.30" Hg

Start/End: 1112-1117

Drilling Company/Rig Type: Geotek Geoprobe 6610PT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macroseal

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB41-1	From: 0 to: 2.5' Time: 1206	/	75%	Brown moist peat
SB41-2	From: 2.5' to: 5' Time: 1211	/	85%	Brown moist peat 2.5'-4.5' gray moist sand w/ silt 4.5-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG



CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOMU

SOIL BORING NUMBER: SB39

Date: 5-20-22

Weather Conditions: 56°F Partly Cloudy 30-40" Hg

Start/End: 101-1105

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push / Macroseam

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB39-1	From: 0 to: 2.5' Time: 1140	0	60%	Brown moist peat
SB39-2	From: 2.5' to: 5' Time: 1145	0	65%	Brown moist peat 2.5'-4.5' Brown to grey moist sandw/silt 4.5'-5'
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB189

SOIL BORING LOCATION: Hom 11

Date: 5-20-22

Weather Conditions: 56°F Partly Cloudy

Start/End: 1025-1031

Drilling Company/Rig Type: Geo tek Geo Probe 6610PT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Monocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB189-1	From: 0 to: 2.5	/	90%	0-2' Brown moist peat 2'-2.5 grey moist sand w/ silt
	Time: 1124			
SB189-2	From: 2.5 to: 5'	/	90%	grey moist sand w/ silt and gravel
	Time: 1129			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			
	From: to:	/		
	Time:			

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB181

SOIL BORING LOCATION: 110.111

Date: 5-20-21

Weather Conditions:

50°F Partly Cloudy 30-40" Hg

Start/End: 0925-0930

Drilling Company/Rig Type:

Geotech Geoprobe F610 DT

Observer: C. Kent

Drilling/Sampling Method:

Direct Push (macro core)

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB181-1 (SB181-3)	0	2.5'			85%	0-0.5' Brown dry ash w/ sand 0.5-2.5' grey moist sand w/ silt and gravel
SB181-2 (SB181-4)	2.5'	5'			85%	grey moist sand w/ silt
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB186

SOIL BORING LOCATION: Hom 11

Date: 5.20.22

Weather Conditions: 55° F Partly Cloudy 30.40" Hg

Start/End: 0937-0941

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: ekw

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB186-1	From: 0 to: 2.5' Time: 1041	/	70%	Brown peat w/ ash dry from 0-1.5
SB186-2	From: 2.5' to: 5' Time: 1046	/	90%	grey moist sand w/ silt and gravel from 1.5-2.5 grey moist sand w/ silt and gravel
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB188

SOIL BORING LOCATION: 740m11

Date: 5-20-22

Weather Conditions: 55° F Partly cloudy 30-40% Hg

Start/End: 1005-1011

Drilling Company/Rig Type: Geotek Geoprobe 661012F

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB188-1	From: 0 to: 2.5' Time: 1105		90%	Dry brown peat w/ ash from 0-0.75
SB188-2	From: 2.5' to: 5 Time: 1112		90%	moist grey sand w/ silt and gravel from 0.75-1.5 moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB187

SOIL BORING LOCATION: 40 m 11

Date: 5-20-22

Weather Conditions: 54° F Partly cloudy 30.40" Hg

Start/End: 0910-0916

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB187-1	From: 0 to: 2.5' Time: 0925	0	100%	0 - 0.5' Brown ash w/ sand, moist 0.5 - 2.5' grey sand w/ silt and gravel moist
SB187-2	From: 2.5 to: 5' Time: 0930	0	100%	moist grey sand w/ silt and gravel
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
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	From: to:			
	From: to:			
	From: to:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Wamer Airport

SOIL BORING NUMBER: SB82

SOIL BORING LOCATION: 140M11

Date: 5-21-22

Weather Conditions:

61°F Partly Cloudy 29.94" Hg

Start/End: 1655 - 1658

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: E. Katz

Drilling/Sampling Method:

Direct Push Macrocore.

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB82-1	From: 0 to: 2.5' Time: 1706	0	0	60%	Moist brown peat
SB82-2	From: 2.5 to: 5 Time: 1711	0	0	70%	2.5-3.5 moist brown peat 3.5-5' Moist grey sand w/ gravel and silt
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: IADL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB83

SOIL BORING LOCATION: H0M11

Date: 5-21-22

Weather Conditions: 61°F Partly Cloudy 29.94" Hg

Start/End: 1702-1705

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kay

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB83-1	0	2.5	0	0	70%	Moist brown peat
SB83-2	2.5	5	0	0	80%	Moist grey sand w/ silt.
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HOL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM 11

SOIL BORING NUMBER: SB92

Date: 5-21-22

Start/End: 1551-1555

Observer: C. Kent

Weather Conditions: 50°F partly cloudy 30.04" Hg

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB92-1	From: 0 to: 2.5	/	80%	0-2' moist brown peat
	Time: 1602			2-2.5' moist grey sand w/ silt
SB92-2	From: to:	/	80%	moist grey sand w/ silt
	Time: 1607			
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.
ENVIRONMENTAL CONSULTANTS

CLIENT: MDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB93

SOIL BORING LOCATION: Hom 11

Date: 5-21-22

Weather Conditions: 61°F partly cloudy 30.04" Hg

Start/End: 1602-1606

Drilling Company/Rig Type: Geotek Geoprobe 6660 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB93-1	From: 0 to: 2.5'	/	50%	0-1.25 moist brown peat
	Time: 1610			
SB93-2	From: 2.5' to: 5	/	50%	1.25-2.5 moist grey sand w/silt
	Time: 1615			
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDZ
PROJECT: Home Airport

SOIL BORING NUMBER: SB79

SOIL BORING LOCATION: Hom/H

Date: 5-21

Weather Conditions: 61° F partly cloudy 30.04" Hg

Start/End: 1630-1633

Drilling Company/Rig Type: Geok & Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB79-1	From: 0 to: 2.5 Time: 1635	0		0-1 moist brown peat
SB79-2	From: 2.5 to: 5' Time: 1640	0		1-2.5 moist grey sand w/ silt moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Rome Airport

SOIL BORING NUMBER: SB80

SOIL BORING LOCATION: 140 M11

Date: 5-21-22

Weather Conditions: 61° F Partly Cloudy 30.04" Hg

Start/End: 1636-1639

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kuz

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB80-1 (SB80-3)	From: 0 to: 2.5' Time: 1645	/	807.	0-1.75 moist brown peat 1.75-2.5 wet grey sand w/ silt
SB80-2	From: 2.5 to: 5' Time: 1650	/	857.	moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected
SB80-3 is a duplicate of SB80-1

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

1600
89

SOIL BORING NUMBER: SB81

SOIL BORING LOCATION: 170M11

Date: 5-21-72

Weather Conditions: 61° F Partly Cloudy 29.94" Hg

Start/End: 1642-1645

Drilling Company/Rig Type: Geotek Geoprobe 6010DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB81-1	From: 0 to: 2.5 Time: 1654	0	65%	moist to wet Brown sand
SB81-2	From: 2.5' to: 5' Time: 1659	0	75%	wet to moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB90

SOIL BORING LOCATION: 60 Hom 11

Date: 5-21-22

Weather Conditions: 55° F Partly Cloudy 30.00" Hg

Start/End: 1510-1513

Drilling Company/Rig Type: Geotek Geoprobe 6610RT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB90-1	From: 0 to: 2.5 Time: 1525	0	70%	moist brown peat
SB90-2	From: 2.5 to: 5 Time: 1530	0	90%	moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.
ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: 40M11

SOIL BORING NUMBER: SB91

Date: 5-21-21

Weather Conditions: 57° F Partly cloudy 30.02" Hg

Start/End: 1526-1530

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocork

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB91-1	From: 0 to: 2.5' Time:	/	50%	moist brown part
SB91-2 (SB91-4)	From: 2.5 to: 5' Time:	/	65%	moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB91-4 is a duplicate of sample SB91-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB89

SOIL BORING LOCATION: HOM 11

Date: 5-21-22

Weather Conditions: 59° F Partly Cloudy 30.04" Hg

Start/End: 1540-1644

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Mhecore

Sample Number	Depth (feet) From: to:	PID (ppm) Amb/H.S.	Recovery	Description
SB89-1	Time: 1548	0	70%	moist brown pent
SB89-2	Time: 1554	0	75%	moist grey sand w/silt
	From: to:			
	Time:			
	From: to:			
	Time:			
	From: to:			
	Time:			
	From: to:			
	Time:			
	From: to:			
	Time:			
	From: to:			
	Time:			
	From: to:			
	Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB100

SOIL BORING LOCATION: 140M11

Date: 5-21-22

Weather Conditions: 55°F Partly cloudy 30.00" Hg

Start/End: 1421-1427

Drilling Company/Rig Type: Geopack Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB100-1	From: 0 to: 2.5' Time: 1448	0	90%	0-2' moist brown pent 2'-2.5' wet tan sand w/ silt
SB100-2	From: 2.5 to: 5 Time: 1453	0	95.5%	wet to moist tan sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB101

SOIL BORING LOCATION: Home 11

Date: 5-21-22

Weather Conditions: 55° F Partly Cloudy 30.00" Hg

Start/End: 1450-1459

Drilling Company/Rig Type: Coker Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Probe

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB101-1	From: 0 to: 2.5' Time: 1505	/	90%	Moist Lowet brown pent
SB101-2	From: 2.5 to: 5' Time: 1516	/	95%	moist grey sand w/ silt
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Horner Airport

SOIL BORING NUMBER: SB103

SOIL BORING LOCATION: 110 m/l

Date: 5.21.22

Weather Conditions: 55°F Partly Cloudy 30.00" Hg

Start/End: 1501-1504

Drilling Company/Rig Type: Geotek Geoprobe 66100T

Observer: C. Kait

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB103-1	From: 0 to: 2.5' Time:	/	70%	Moist brown peat
SB103-2	From: 2.5 to: 5' Time:	/	85%	Moist brown to tan sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB11

SOIL BORING LOCATION: 140M11

Date: 5-21-22

Weather Conditions: 54°F Mostly cloudy 30.11" Hg

Start/End: 1325-1330

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kat

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB11-1	From: 0 to: 2.5' Time: 1351	/	75%	0-1.5' Moist Brown peat w/ Sand 1.5-2.5' fin sand w/ silt
SB11-2	From: 2.5' to: 5' Time: 1356	/	80%	Moist fin sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: WDC
PROJECT: Home Airport

SOIL BORING NUMBER: SB113

SOIL BORING LOCATION: 140M11

Date: 5-21-22

Weather Conditions:

54° F Mostly Cloudy 29.98"

Start/End: 1390-1355

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method:

Direct Push Macrocoring

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB113-1	0	2.5'	0		50%	Moist brown peat w/ sand
SB113-2	2.5	5'	0		50%	moist loam to grey sand w/ silt
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB102

SOIL BORING LOCATION: 40m11

Date: 5-21-22

Weather Conditions: 54°F Mostly Cloudy

Start/End: 1403-1407

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB102-1	From: 0 to: 2.5' Time: 1416	0	80%	0-0.5 moist brown peat 0.5-2.5 tan moist to wet brown to tan peat w/ sand
SB102-2	From: 2.5 to: 5' Time: 1422	0	90%	moist tan sand w/ silt
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
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	From: to:			
	From: to:			
	From: to:			
	From: to:			
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	From: to:			
	From: to:			
	From: to:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB99

SOIL BORING LOCATION: HAMI

Date: 5-21-22

Weather Conditions: 54°F Mostly cloudy 25.95" Hg

Start/End: 1412-1412

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: E. Kent

Drilling/Sampling Method: Direct Push Microcone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB99-1 (SB99-3)	From: 0 to: 2.5'	/	80%	0-1.5' Moist brown peat
	Time: 1434			1.5-2.5' moist tan sand w/ peat and silt
SB99-2	From: 2.5' to: 5'	/	85%	moist tan sand w/ silt
	Time: 1434			
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB109

SOIL BORING LOCATION: HOM11

Date: 5-21-22

Weather Conditions: 54° F Mostly Cloudy 30.11" Hg

Start/End: 1315-1320

Drilling Company/Rig Type: Geotek Geoprobe 660BT

Observer: Crist

Drilling/Sampling Method: Direct Push Micro core

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB109-1	From: 0 to: 2.5 Time: 1336	0		80%	Moist tan sand w/ silt
SB109-2	From: 2.5 to: 5' Time: 1341	0		90%	Moist brown tan sand w/ silt.
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB112

SOIL BORING LOCATION: 140m W

Date: 5-21-22

Weather Conditions: 54°F Mostly Cloudy 30.11" Hg

Start/End: 1259-1303

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kat

Drilling/Sampling Method: Direct Push / Macro core

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb:	H.S.		
SB112-1	0	2.5			45%	0-1' Dry brown pent w/ sand 1-2.5' tan moist sand w/ silt
SB112-2	2.5	5			55%	moist tan sand w/ silt
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Assest

SOIL BORING NUMBER: SB110

SOIL BORING LOCATION: Home 11

Date: 5-21-22

Weather Conditions: 54° F Mostly Cloudy 30.11" Hg

Start/End: 1306-1311

Drilling Company/Rig Type: Geotek Geoprobe 661010T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)		PID (ppm) Amb/H.S.	Recovery	Description
	From:	to:			
SB110-1	0	2.5'		75%	0-1' moist brown peat w/ sand 1-2.5' Moist tan sand w/ silt
SB110-2 (SB110-4)	2.5'	5'		90%	moist tan sand w/ silt
	From:	to:			
	Time:				
	From:	to:			
	Time:				
	From:	to:			
	Time:				
	From:	to:			
	Time:				
	From:	to:			
	Time:				
	From:	to:			
	Time:				
	From:	to:			
	Time:				

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB115

SOIL BORING LOCATION: HOM11

Date: 5-21-22

Weather Conditions: 55° F Mostly Cloudy 30.11" Hg

Start/End: 1155-1159

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kelly

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB115-1	From: 0 to: 2.5' Time: 1228	0	0	75%	Brown moist sand w/ peat and silt
SB115-2	From: 2.5' to: 5' Time: 1238	0	0	85%	Moist brown sand w/ silt
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: J+DL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB117

SOIL BORING LOCATION: HOMI

Date: 5-21-22

Weather Conditions:

54° F Mostly Cloudy 30.1" Hg

Start/End: 1216-1220

Drilling Company/Rig Type:

Geotech Geoprobe 6610 PT

Observer: C. Kyt

Drilling/Sampling Method:

Direct Push Manganese

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB117-1	From: 0 to: 2.5'	/	/	65%	Moist brown peat w/ sand 0-0.5'
	Time: 1246				
SB117-2	From: 2.5 to: 5'	/	/	85%	moist to tan sand w/ silt
	Time: 1255				
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB114

SOIL BORING LOCATION: 170M11

Date: 5-21-22

Weather Conditions:

55° F Partly Cloudy 30.11" Hg

Start/End: 1106-1110

Drilling Company/Rig Type:

Geotek Geoprobe 66100T

Observer: C. Kent

Drilling/Sampling Method:

Direct Push Microtrench

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB114-1 (SB114-3)	From: 0 to: 2.5' Time: 1132	0	0	70%	0-0.5' brown dry peat
SB114-2	From: 2.5 to: 5' Time: 1137	0	0	70%	0.5-2.5' moist grey to brown sand w/ silt and peat
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Romer Airport

SOIL BORING NUMBER: SB118

SOIL BORING LOCATION: HOM11

Date: 5-21-22

Weather Conditions:

55°F Partly Cloudy 30.11" Hg

Start/End: 1115-1119

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: C. Mint

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB118-1	0	2.5'	0	0	80%	moist to wet brown peat
SB118-2	2.5'	5'	0	0	85%	moist grey sand w/silt
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
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	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB116

SOIL BORING LOCATION: Hom 11

Date: 5-21-22

Weather Conditions:

55° F Partly Cloudy 30.4" Hg

Start/End: 1100-1104

Drilling Company/Rig Type:

Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB116-1	From: 0 to: 2.5' Time: 1117			70%	Moist to wet brown peat
SB116-2	From: 2.5' to: 5' Time: 1122			80%	Wet to moist brown peat 2.5-3 moist grey sand w/ silt 3'-5'
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB105

SOIL BORING LOCATION: 140 n/1

Date: 5-21-22

Weather Conditions: 55°K Partly Cloudy 30.1" Hg

Start/End: 1016-1020

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Keel

Drilling/Sampling Method: Direct Push Macroseam

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB105-1	From: 0' to: 2.5' Time: 1038	0	0	857.	moist brown Peat
SB105-2	From: 2.5' to: 5' Time: 1043	0	0	1007.	moist to wet grey sand w/ silt
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB106

SOIL BORING LOCATION: HOM 11

Date: 5-21-22

Weather Conditions:

55° F Partly Cloudy 30.11"

Start/End: 1031-1035

Drilling Company/Rig Type:

Geotek Geoprobe 6610PT

Observer: C. Kent

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB106-1	0	2.5'	0	0	45%	Brown moist peat 0-2' moist grey sand w/ silt 2'-2.5'
SB106-2	2.5'	5'	0	0	55%	moist grey sand w/ silt
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: DDL
PROJECT: Honey Airport

SOIL BORING LOCATION: Hom 11

SOIL BORING NUMBER: SB104

Date: 5-21-27

Weather Conditions: 55" F Partly Cloudy 30-4"

Start/End: 1016-1020

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kunt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB104-1	From: 0' to: 2.5' Time: 1021	0	70%	moist brown peat
SB104-2	From: 2.5' to: 5' Time: 1023	0	90%	moist brown peat 2.5'-3.5' moist grey sand w/ silt 3.5'-5'
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
	From: to:			
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	From: to:			

Notes: Amb = ambient; H.S. = headdress; NC = not collected



BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: 140M11

SOIL BORING NUMBER: SB108

Date: 5-21-22

Weather Conditions: 52° F partly cloudy - 30.11" Hg

Start/End: 0940 - 0945

Drilling Company/Rig Type: Geotek Geoprobe 66100T

Observer: E. Kent

Drilling/Sampling Method: Direct Push macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB108-1	From: 0' to: 2.5'	/	/	50%	Moist to wet brown peat
SB108-2	From: 2.5' to: 5'	/	/	60%	Wet to moist grey sand w/ silt
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
	From: to:	/	/		
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	From: to:	/	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: ADL
PROJECT: Home Depot

SOIL BORING NUMBER: SB107

SOIL BORING LOCATION: HOM11

Date: 5-21-22

Weather Conditions: 52° Partly Cloudy 30.11" Hg

Start/End: 0951-0959

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro cone

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB107-1	From: 0 to: 2.5' Time: 1006		0	75%	Brown moist peat
SB107-2 (SB107-4)	From: 2.5 to: 5' Time: 1011		0	80%	moist lower grey sand w/ silt.
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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	From: to: Time:				
	From: to: Time:				
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	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headdress; NC = not collected

SB107-4 is a duplicate of SB107-2

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: MDL
PROJECT: Hamm Airport

SOIL BORING NUMBER: SB179

SOIL BORING LOCATION: Hamm

Date: 5-22-22

Weather Conditions: 61°F Partly Cloudy 29.83" Hg

Start/End: 1447-1451

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB179-1	From: 0 to: 2.5' Time: 1504	3	80%	moist brown peat
SB179-2 (SB179-4)	From: 2.5' to: 5' Time: 1509	2	80%	moist brown peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB179-4 is a duplicate of sample SB179-2

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: Home

SOIL BORING NUMBER: SB171

Date: 5-22-22

Weather Conditions: 64°F Partly Cloudy 29.85" Hg

Start/End: 1010-1613

Drilling Company/Rig Type: Geotek Geoprobe 6610JF

Observer: C.KAT

Drilling/Sampling Method: Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB171-1	From: 0 to: 2.5 Time: 1624	/	95%	Moist grey sand
SB171-2 (SB171-4)	From: 2.5 to: 5 Time: 1628	/	85%	moist brown peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB171-4 is a duplicate of sample SB171-2

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB170

SOIL BORING LOCATION: Home

Date: 5-22-22

Weather Conditions: 64°F Partly Cloudy 29.85" Hg

Start/End: 1621-1625

Drilling Company/Rig Type: Geotek Geoprobe 661017

Observer: C. Katz

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB170-1	From: 0 to: 2.5' Time: 1636		8	80%	moist dark grey sand
SB170-2	From: 2.5 to: 5' Time: 1641		0	65%	moist brown peat
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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	From: to: Time:				
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	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB169

SOIL BORING LOCATION: Home

Date: 5-22-22

Weather Conditions:

63° F Partly Cloudy 29.85" Hg

Start/End: 1632-1636

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB169-1	0	2.5'	0		80%	0-1' moist brown sand 1-2.5' moist grey sand
SB169-2	2.5'	5'	0		70%	2.5-3' moist grey sand 3'-5' moist brown peat
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB172

SOIL BORING LOCATION: Homer

Date: 5-22-22

Weather Conditions:

63°F Partly Cloudy 29.85" Hg

Start/End: 1638-1642

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: C. Kant

Drilling/Sampling Method:

Direct Push Macrocell

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB172-1	0	2.5'	0		85%	0-0.5 moist brown peat 0.5-2.5 moist dark grey sand
SB172-2	2.5'	5'	0		80%	2.5-3 moist dark grey sand 3-5' moist brown peat
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HOL
PROJECT: Waver Airport

SOIL BORING NUMBER: SB173

SOIL BORING LOCATION: Lanby

Date: 5-26-21

Weather Conditions: 62°F Partly Cloudy 29.83" Hg

Start/End: 1646-1649

Drilling Company/Rig Type: Geotek Geoprobe 6610 BT

Observer: C. Hunt

Drilling/Sampling Method: Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB173-1	From: 0 to: 2.5 Time: 1656	/	○	0-0.25 moist brown sand 0.25-2.5 moist dark brown ^{gray} sand
SB173-2	From: 0 to: 2.5 Time: 1659	/	○	2.5-3.75 moist dark gray sand 3.75-5 moist brown peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: Hank

SOIL BORING NUMBER: SB174

Date: 5-22-22

Weather Conditions: 61°K Partly Cloudy 29.83" Hg

Start/End: 1905-1509

Drilling Company/Rig Type: Geotek Geoprobe G610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB174-1	From: 0 to: 2.5'	/	60%	0-1.5' moist grey sand
	Time: 1521			1.5'-2.5' moist brown peat
SB174-2	From: 2.5' to: 5'	/	60%	moist brown peat
	Time: 1520			
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
	From: to:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB176

SOIL BORING LOCATION: 140M8

Date: 5-22-22

Weather Conditions: 63°F Partly Cloudy

Start/End: 1531-1535

Drilling Company/Rig Type: Geotek Geoprobe 6610 AT

Observer: C. Holt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB176-1 (SB176-3)	From: 0 to: 2.5' Time: 1541	0	65%	0-0.5 moist grey sand 0.5-2.5 moist brown peat
SB176-2	From: 2.5 to: 5' Time: 1546	0	65%	moist brown peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB176-3 is a duplicate of SB176-1

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB175

SOIL BORING LOCATION: HOMER

Date: 5-22-22

Weather Conditions: 63°F partly cloudy 29.83" Hg

Start/End: 1540-1544

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB175-1	From: 0 to: 2.5' Time: 1555	○	○	80%	0-0.75 moist grey sand 0.75-2.5 moist brown peat
SB175-2	From: 2.5 to: 5' Time: 1600	○	○	80%	moist brown peat
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB177

SOIL BORING LOCATION: HOMER

Date: 5-22-22

Weather Conditions:

64°F Partly Cloudy 29.85" Hg

Start/End: 1549-1553

Drilling Company/Rig Type:

Geotek Geopress 6610 DT

Observer: C. Kent

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB177-1	From: 0 to: 25' Time: 1608	0	80%	Wet grey sand
SB177-2	From: 25' to: 5' Time: 1613	0	80%	Moist to wet grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: WDL
PROJECT: Hammer Airport

SOIL BORING NUMBER: SB178

SOIL BORING LOCATION: H0016

Date: 5-22-22

Weather Conditions:

61°F Partly cloudy 29.85" Hg

Start/End: 1604-1608

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: E. Kat

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB178-1	From: 0 to: 2.5' Time: 1617		0	80%	0-1' moist brown to grey sand 1'-2.5' moist brown peat
SB178-2	From: 2.5' to: 5' Time: 1622		0	80%	2.5-4.5' moist brown peat 4.5-5' moist grey sand w/ silt
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
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	From: to: Time:				

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM4

SOIL BORING NUMBER: SB185

Date: 5-22-22

Weather Conditions: _____

Start/End: 1350-1354

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB185-1	From: 0 to: 2.5' Time: 1359	3	65%	0-2' wet gray sand 2-2.5' moist brown peat w/ silt
SB185-2	From: 2.5 to: 5' Time: 1404	2	65%	2.5-3.5 moist brown peat 3.5-5 moist gray sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Womer Airport

SOIL BORING NUMBER: SB184

SOIL BORING LOCATION: WOMER

Date: 5-22-22







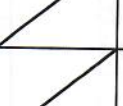




Weather Conditions: 61°K Partly Cloudy 29.83" Hg

Start/End: 1410-1414

Drilling Company/Rig Type: Exotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocure

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB184-1	From: 0 to: 2.5' Time: 1427		80%	Moist brown peat w/ sand
SB184-2	From: 2.5 to: 5' Time: 1434		85%	2.5-4' brown moist peat 4'-5' moist grey sand w/ silt.
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: Home

SOIL BORING NUMBER: SB183

Date: 5-22-22

Weather Conditions: 61°F Partly cloudy 29.83"

Start/End: 1432-1437

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kutz

Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB183-1	From: 0 to: 2.5 Time: 1442	0	65%	moist brown peat
SB183-2	From: 2.5 to: 5' Time: 1447	0	65%	moist brown peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Hone Airport

SOIL BORING LOCATION: 16M4

SOIL BORING NUMBER: SB182

Date: 5-22-22

Weather Conditions:

61°F Partly cloudy 29.83" Hg

Start/End: 1437-1442

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: e. kant

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SN 82-1	From: 0 to: 2.5' Time: 1457	/	80%	moist brown peat
SB182-2	From: 2.5 to: 5' Time: 1457	/	85%	2.5-4.5' moist brown peat 4.5-5' moist grey sand silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: MDL
PROJECT: Homer Airport

SOIL BORING LOCATION: NOM 11

SOIL BORING NUMBER: SB34

Date: 5-22-22

Weather Conditions: 57°F Partly cloudy 21.83" Hg

Start/End: 1206-1214

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macroson

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB34-1	From: 0 to: 2.5 Time: 1219	0	60%	moist brown peat
SB34-2	From: 2.5 to: 5 Time: 1225	0	70%	moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB38

SOIL BORING LOCATION: HOM11

Date: 05-22

Weather Conditions:

58°F Partly Cloudy 29.83" Hg

Start/End: 1225-1228

Drilling Company/Rig Type:

Geotech Geoprobe 6610PT

Observer: Client

Drilling/Sampling Method:

Direct Push Macro

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB38-1	0	2.5	0	0	95%	moist brown peat
SB38-2	2.5	5'	0	0	100%	2.5'-4" moist brown peat 4'-5' moist grey sand w/ silt.
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
	Time:					
	From:	to:				
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	From:	to:				
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	From:	to:				
	Time:					

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM11

SOIL BORING NUMBER: SB35

Date: 5-22-22

Weather Conditions:

57°F Partly cloudy 29.93" Hg

Start/End: 1138-1142

Drilling Company/Rig Type:

Booth Geoprobe 6610DT

Observer: P. Kent

Drilling/Sampling Method:

Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB35-1	From: 0 to: 2.5 Time: 1157	0	70%	moist brown part
SB35-2	From: 2.5 to: 5' Time: 1156	0	75%	2.5-4.5' moist brown part 4.5-5' moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: 140 Mill

SOIL BORING NUMBER: SB36

Date: 5-22-21

Weather Conditions: 58°F Partly Cloudy 29.93" Hg

Start/End: 1150-1152

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB36-1	From: 0 to: 2.5' Time: 1204	0	85%	moist brown peat
SB36-2	From: 2.5' to: 5' Time: 1209	0	95%	2.5 - 4.5 moist brown peat 4.5' - 5' moist grey sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: ADL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB37

SOIL BORING LOCATION: 140M11

Date: 5-22-22

Weather Conditions:

56° F partily cloudy 29.93" Hg

Start/End: 1125-1130

Drilling Company/Rig Type:

Geotek Geoprobe 6610DT

Observer: C. Hunt

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB37-1 (SB37-3)	From: 0 to: 2.5' Time: 1137	0	70%	moist brown peat
SB37-2	From: 2.5 to: 5' Time: 1142	0	75%	2.5'-3.75' moist brown peat 3.75'-5' moist grey sand w/silt
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB37-3 is a duplicate of SB37-1

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB73

SOIL BORING LOCATION: 110M11

Date: 5-22-72

Weather Conditions: 56°F Partly Cloudy 29.93" Hg

Start/End: 1032-1057

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: e. Kutt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB73-1	From: 0 to: 2.5' Time: 1123	/	75%	Moist brown peat
SB73-2	From: 2.5 to: 5' Time: 1128	/	90%	2.5-3' moist brown peat 3'-5' moist grey sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Hammer Airport

SOIL BORING NUMBER: SB72

SOIL BORING LOCATION: 40M11

Date: 5-22-22

Weather Conditions: 55° F Partly Cloudy 29.93" Hg

Start/End: 1015-1020

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: e. Hunt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB72-1	From: 0 to: 2.5 Time: 1114	/	65%	moist brown peat
SB72-2	From: 2.5 to: 5' Time: 1120	/	85%	2.5'-4' moist brown peat 4'-5' moist grey sand w/ silt.
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB71

SOIL BORING LOCATION: HOM 11

Date: 5-27-21

Weather Conditions: 54°F Mostly Cloudy 29.93" Hg

Start/End: 0950-0959

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Hunt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB71-1	From: 0 to: 2.5' Time: 1032	0	0	55%	moist brown peat
SB71-2 (SB71-4)	From: 2.5' to: 5' Time: 1037	0	0	60%	moist brown peat
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected
SB71-4 is a duplicate of sample SB71-2



BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: (70M11)

SOIL BORING NUMBER: SB69
Date: 5-22-22
Start/End: 0955-0959
Observer: C. Kent

Weather Conditions: 54°F 29.23" Hg Mostly Cloudy
Drilling Company/Rig Type: Geotek Geoprobe 661005
Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB69-1	From: 0 to: 2.5 Time: 1044		0	65%	Moist brown peat
SB69-2	From: 2.5 to: 5 Time: 1049		0	85%	2.5-4' moist brown peat 4'-5' moist grey sand w/ silt
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: 740M11

SOIL BORING NUMBER: SB71

Date: 5-22-22

Weather Conditions: 55°F Partly Cloudy 24.93" Hg

Start/End: 1009-1011

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB70-1	From: 0 to: 2.5' Time: 1100	/	45%	Brown moist peat
SB70-2	From: 2.5 to: 5' Time: 1106	/	50%	moist gray sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HOL
PROJECT: Homer Airport

SOIL BORING LOCATION: 140M4

SOIL BORING NUMBER: SB4

Date: 5-23-22

Weather Conditions: 47% Mostly cloudy 29.84" Hg

Start/End: 1112-1117

Drilling Company/Rig Type: Geotek Beeprobe 661017

Observer: C. Kelly

Drilling/Sampling Method: Direct Push Microcone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB4-1	From: 0 to: 2.5 Time: 1222	/	60%	moist grey sand
SB4-2	From: 2.5 to: 5 Time: 1227	146	50%	moist grey sand 2.5-3.5 moist brown peat 3.5-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDC
PROJECT: Homer Airport

SOIL BORING NUMBER: SBS

SOIL BORING LOCATION: HOM4

Date: 5-23-22

Weather Conditions: 49°F Partly Cloudy 27.93" Hg

Start/End: 1121-1125

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Meers core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB5-1	From: 0 to: 2.5 Time: 1254	2	65%	moist grey sand
SB5-2	From: 2.5 to: 5 Time: 1300	0	50%	moist brown sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM4

SOIL BORING NUMBER: SB6

Date: 5-23-22

Weather Conditions: 49° F Mostly cloudy 29.93" Hg

Start/End: 1129-1134

Drilling Company/Rig Type: Geotek Corp rig 661007

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB6-1 (SB6-3)	From: 0 to: 2.5' Time: 1305	/	90%	0-1' moist brown sand
SB6-2	From: 2.5' to: 5' Time: 1310	538 /	70%	1-2.5 stained grey moist sand - hydrocarbon odor moist brown peat - hydrocarbon odor
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HOE
PROJECT: Home Airport

SOIL BORING LOCATION: HOMY

SOIL BORING NUMBER: SB7

Date: 5-23-22

Weather Conditions: 49°F Mostly Cloudy 24.93" Hg

Start/End: 1221-1226

Drilling Company/Rig Type: Geotek Deeprobe 6660T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Membrane

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB7-1	From: 0 to: 2.5	210	70%	0-1' dry to moist brown sand
	Time: 1340			1' - 2.5' moist grey sand
SB7-2	From: 2.5 to: 5	2	65%	2.5' - 4.5' moist grey soil - Petro odor
	Time: 1348			4.5' - 5' moist brown part
	From: to:			
	Time:			
	From: to:			
	Time:			
	From: to:			
	Time:			
	From: to:			
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	From: to:			
	Time:			
	From: to:			
	Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SB2

SOIL BORING LOCATION: HDM 6

Date: 5-23-22

Weather Conditions: 50° F Mostly Cloudy 2A.93" Hg

Start/End: 1255-1259

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)		PID (ppm)		Recovery	Description
	From:	to:	Amb	H.S.		
SB2-1	0	2.5			99%	Moist brown peat
	2.5	5				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM6

SOIL BORING NUMBER: SB3

Date: 5-23-22

Weather Conditions: 50°F Mostly Cloudy 29.93" Hg

Start/End: 1308-1343

Drilling Company/Rig Type: Geotech Geoprobe 6600T

Observer: c. kat

Drilling/Sampling Method: Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB3-1	From: 0 to: 2.5 Time: 1434	/		Moist Brown peat
	From: 2.5 to: 5' Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HOL
PROJECT: Homer Airport 2

SOIL BORING LOCATION: 110M4

SOIL BORING NUMBER: SB8

Date: 5-23-22

Weather Conditions: 61°F Mostly Cloudy 29.93" Hg

Start/End: 1140-1144

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Lane

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB8-1	From: 0 to: 2.5' Time: 1356	/	90%	0-1' moist brown sand 1-2.5 moist grey sand
SB8-2	From: 2.5 to: 5 Time: 1401	/	85%	moist brown pent
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: W0104

SOIL BORING NUMBER: SB24

Date: 5-22-22

Weather Conditions:

48°F Mostly Cloudy 29.84" Hg

Start/End: 1019-1024

Drilling Company/Rig Type:

Geotech Geoprobe 0610 DT

Observer: C. Katz

Drilling/Sampling Method:

Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB24-1	From: 0 to: 2.5 Time: 1044	2 137	50%	0-0.25 moist grey sand 0.25-2.5 moist brown peat
SB24-2	From: 2.5 to: 5' Time: 1049	54	50%	moist brown peat
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ADL
PROJECT: Home Airport

SOIL BORING LOCATION: Home

SOIL BORING NUMBER: SB26

Date: 5-23-22

Weather Conditions: 49°F Mostly Cloudy 29.83" Hg

Start/End: 1053-1057

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB26-1	From: 0 to: 2.5'	/	100%	0-2' moist brown sand
	Time: 1108			2'-2.5' moist grey sand w/ mild hydrocarbon odor
SB26-2 (SB26-4)	From: 2.5 to: 6	/	80%	moist brown peat
	Time: 1118			
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB26-4 is a duplicate of Sample SB26-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: 1102
PROJECT: Home Asgmt

SOIL BORING LOCATION: HOM4

SOIL BORING NUMBER: SB27

Date: 5-23-22

Weather Conditions: 44° F Mostly Cloudy 29.84" Hg

Start/End: 1059-1104

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kurt

Drilling/Sampling Method: Direct Push procedure

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB27-1	From: 0 to: 2.5'	/	2	80%
	Time: 1139			moist brown sand 0-0.5 moist brown peat w/ sand 0.5' 2.5'
SB27-2	From: 2.5' to: 5	/	3	80%
	Time: 1148			moist brown peat
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM4

SOIL BORING NUMBER: SB28

Date: 5-23-72

Weather Conditions: 49° F Mostly cloudy 29.83" Hg

Start/End: 110-114

Drilling Company/Rig Type: Geotek Geoprobe 66100T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Monocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB28-1	From: 0 to: 2.5' Time: 1202	/	95%	0-1.5' moist brown to grey sand 1.5-2.5 moist brown sand
SB28-2	From: 2.5 to: 5' Time: 1216	/	90%	moist brown sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HOL
PROJECT: Hamm Airport

SOIL BORING LOCATION: HOM13

SOIL BORING NUMBER: SB31

Date: 5-26-21

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0101-0105

Drilling Company/Rig Type: Geotech Geoprobe 661001

Observer: CKL

Drilling/Sampling Method: Direct Push Microcon

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB31-1	From: 0 to: 2.5 Time: 0:14	/	80%	moist brown sand w/ peat
SB31-2	From: 2.5 to: 5. Time: 0:17	/	85%	moist brown sand w/ peat and silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Home A.C. part

SOIL BORING NUMBER: SB32

SOIL BORING LOCATION: HOM13

Date: 5-26-22

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0710-0114

Drilling Company/Rig Type: Centek Geoprobe 6610 DT

Observer: C. Hunt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB32-1	From: 0 to: 2.5 Time: 0114	/	65%	0-0.5 moist brown peck w/ sand 0.5-2.5 moist to wet brown sand
SB32-2	From: 2.5 to: 5 Time: 0122	/	70%	2.5-3.5 wet brown sand 3.5-5 moist brown silt w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL 1
PROJECT: Hamer Airport

SOIL BORING NUMBER: SB33

SOIL BORING LOCATION: 140M13

Date: 5-26-22

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0116-0119

Drilling Company/Rig Type: Geo Tex Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB33-1	From: 0 to: 2.5' Time: 0128	/	85%	0-0.25 moist brown peat 0.25-2.5 moist brown sand w/ silt
SB33-2	From: 2.5 to: 5' Time: 0125	/	95%	moist brown sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDC
PROJECT: Home Depot

SOIL BORING NUMBER: SB10

SOIL BORING LOCATION: HOM13

Date: 5-26-22

Weather Conditions: 42°F Clear 20-26" lg

Start/End: 0136-0140

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. West

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB10-1	From: 0 to: 2.5' Time: 0149	/	95%	moist brown peat
SB10-2 (SB10-4)	From: 2.5' to: 5' Time: 0152	/	100%	moist grey clay w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB10-4 is a duplicate of sample SB10-2

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: ADL
PROJECT: Homer Av

SOIL BORING NUMBER: SB15

SOIL BORING LOCATION: NOM 13

Date: 5-26-22

Weather Conditions: 41°F Clear 29.96" Hg

Start/End: 0151-0154

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB15-1	From: 0 to: 2.5 Time: 0157	/	70%	0-1" moist brown sand 1"-2.5" moist tan sand w/ silt
SB15-2	From: 2.5 to: 5' Time: 0200	/	90%	moist tan silt w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM13

SOIL BORING NUMBER: SB16

Date: 5-26-22

Weather Conditions: 41°F Clear 29.96" Hg

Start/End: 0154-0157

Drilling Company/Rig Type: Geotech Deep probe G6L0DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm)		Recovery	Description
		Amb	H.S.		
SB16-1	From: 0' to: 2.5' Time: 0204			80%	0-1.5' moist brown peat w/ sand 1.5-2.5' moist tan sandy silt
SB16-2	From: 2.5' to: 5' Time: 0207			85%	2.5-3' moist tan sand w/ silt 3-5' moist brown peat
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				
	From: to: Time:				

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB17

SOIL BORING LOCATION: Hom13

Date: 5-26-12

Weather Conditions: 41°F Clear 29.96" Hg

Start/End: 0200-0203

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB17-1	From: 0 to: 2.5' Time: 0209	/	90%	moist brown part
SB17-2	From: 2.5' to: 5' Time: 0212	/	100%	moist fm silt/cl sand.
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Harbor Airport

SOIL BORING LOCATION: HOM13

SOIL BORING NUMBER: SB18

Date: 5-26-22

Weather Conditions: 41°F Clear 29.96" Hg

Start/End: 0209-0222

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB18-1	From: 0' to: 2.5' Time: 0215	/	80%	moist brown peat
SB18-2	From: 2.5' to: 6' Time: 0219	/	85%	2.5-4' moist brown peat 4-5' moist tan silt w/ sand.
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC.
SOIL BORING LOG

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING NUMBER: SB9

SOIL BORING LOCATION: HOMES

Date: 5-26-22

Weather Conditions: 41°F Clear 29.96" Hg

Start/End: _____

Drilling Company/Rig Type: Geotek Geoprobe 6610 WT

Observer: C. K. H. T.

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB9-1 (SB9-3)	From: 0 to: 2.5' Time:		50%	dry to moist brown sand
SB9-2	From: 2.5' to: 5' Time:		50%	moist brown sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB9-3 is a duplicate of sample SB9-1

BGES, INC.

ENVIRONMENTAL CONSULTANTS

BGES, INC. SOIL BORING LOG

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: Home

SOIL BORING NUMBER: SB11

Date: 5-26-22

Weather Conditions: 410K Clear 29.96" Hg

Start/End: 0228 - 0231

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. West

Drilling/Sampling Method: Direct Push Macroson

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB11-1	From: 0 to: 2.5' Time: 0243	/	55%	Moist Brown sand
SB11-2	From: 2.5' to: 5' Time: 0249	/	60%	Moist brown peat w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG



CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: 40m13

SOIL BORING NUMBER: SB1h

Date: 5-26-22

Weather Conditions: 41°K Clear 29.98" Hg

Start/End: 0241-0244

Drilling Company/Rig Type: Geacex Geoprobe 6610PT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB12-1	From: 0 to: 2.5' Time: 0253	/	75%	moist brown sand
SB12-2	From: 2.5' to: 5' Time: 0256	/	80%	wet brown sand w/ silt 2.5-3.5' moist tan silt w/ sand 3.5-5'
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Warner Airport

SOIL BORING NUMBER: SB13

SOIL BORING LOCATION: 110M13

Date: 5-26-22

Weather Conditions: 41°F Clear 24.95" Hg

Start/End: 0250-0259

Drilling Company/Rig Type: Geotech Cooperative 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB13-1	From: 0 to: 2.5' Time: 0302	/	85%	Moist Brown peat w/ sand
SB13-2	From: 2.5 to: 5' Time: 0304	/	85%	2.5-3.5 moist brown peat w/ sand 3.5-5 moist tan silt w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING NUMBER: SBI4

SOIL BORING LOCATION: HOM13

Date: 5-26-22

Weather Conditions: 41°F Clear 29.98" Hg

Start/End: 0256-0254

Drilling Company/Rig Type: Geotek Geoprobe 6610 DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocoring

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SBI4-1	From: 0 to: 2.5' Time: 0307	/	85%	moist brown peat
SBI4-2	From: 2.5 to: 5' Time: 0310	/	95%	2.5-4' moist brown peat 4'-5' moist tan silt w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Airport

SOIL BORING LOCATION: HOM 1

SOIL BORING NUMBER: SBI

Date: 5-26-22

Weather Conditions: 41°F Clear 29.95" Hg

Start/End: 0600-0606

Drilling Company/Rig Type: Geoprobe 6610 DT Geopex

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocone

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SBI-1 (SBI-3)	From: 0 to: 2.5	/	66%	0-0.5 moist brown peat
	Time: 0622			0.5-2.5 moist grey sand
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SBI-3 is a duplicate of Sample SBI-1

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Horn, Airport

SOIL BORING LOCATION: Ham 13

SOIL BORING NUMBER: SB190

Date: 5-25-22

Weather Conditions: 44°F Clear 29.96" Hg

Start/End: 2334 - 2340

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kutt

Drilling/Sampling Method: Direct Push Macrocam

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB190-1	From: 0 to: 2.5' Time: 2350	0	65%	Moist brown peat w/ sand
SB190-2	From: 2.5' to: 5' Time: 2352	0	70%	Moist brown peat w/ sand
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: NOM13

SOIL BORING NUMBER: SB191

Date: 5-25-22

Weather Conditions: 44°F Clear 29.96" Hg

Start/End: 7346-2350

Drilling Company/Rig Type: Geotek Corp. be 6610 DT

Observer: C. W. F.

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB191-1	From: 0 to: 2.5 Time: 2354	/	65%	0-0.5 moist brown peat 0.5-2.5 moist brown sand
SB191-2	From: 2.5 to: 5 Time: 2356	/	75%	moist brown sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Hannu Airport

SOIL BORING LOCATION: NOM 13

SOIL BORING NUMBER: SB193

Date: 5-25-77

Weather Conditions: 43°F Clear 29.96" Hg

Start/End: 2350-2354

Drilling Company/Rig Type: Geotek Geoprobe 6610PT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Microprobe

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB1931	From: 0 to: 2.5' Time: 2358	/	75%	0.0-2.5 moist to damp pent 0.25-2.5 moist brown sand
SB1932	From: 2.5' to: 5' Time: 2400	0	80%	2.5-4.25 moist brown sand 4.25-5 moist grey siltw/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HOL
PROJECT: Homer Airport

SOIL BORING LOCATION: 140M13

SOIL BORING NUMBER: SB19

Date: 5-26-12

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0004 0008

Drilling Company/Rig Type: Geotech Geoprobe 6610RT

Observer: C. Hunt

Drilling/Sampling Method: Direct Push Masonry

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB19-1	From: 0 to: 2.5 Time: 0004	/	100%	moist brown sand w/ silt and gravel
SB19-2 SB19-4	From: 2.5 to: 5 Time: 0017	/	100%	moist brown sand w/ gravel and silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB19-4 is a duplicate of SB19-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Romer Airport

SOIL BORING LOCATION: 140M13

SOIL BORING NUMBER: SB20

Date: 5-26-22

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0012-0016

Drilling Company/Rig Type: Geotech Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Microprobe

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB20-1	From: 0 to: 2.5' Time: 0021	0	100%	Dry to moist brown sand w/ gravel and silt
SB20-2	From: 2.5 to: 5' Time: 0024	0	100%	Dry to moist brown sand w/ silt and gravel
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM13

SOIL BORING NUMBER: SB21

Date: 5-16-27

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0024-0027

Drilling Company/Rig Type: Geotek Geoprobe GS10DT

Observer: E. Hunt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB21-1	From: 0 to: 2.5 Time: 0030	/	65%	moist brown sand
SB21-2	From: 2.5 to: 5' Time: 0033	/	75%	2.5'-4' moist brown sand 4'-5' wet brown silt w/ sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Ramer Airport

SOIL BORING LOCATION: HOM13

SOIL BORING NUMBER: SB222

Date: 5-26-22

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0029-0034

Drilling Company/Rig Type: Geotek Geoprobe 66100T

Observer: C. Kent

Drilling/Sampling Method: Direct Push Microcore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB222-1	From: 0 to: 2.5' Time: 0036	/	70%	0-1.5 moist brown sand w/ gravel and silt 1.5-2.5 wet brown silt w/ sand
SB222-2	From: 2.5 to: 5' Time: 0040	/	70%	2.5-3.5 wet brown silt w/ sand 3.5-5 moist brown sand w/ silt
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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Notes: Amb = ambient; H.S. = headdress; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: 14102
PROJECT: Home Airport

SOIL BORING NUMBER: SB23

SOIL BORING LOCATION: Hom13

Date: 5-26-22

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0032-0036

Drilling Company/Rig Type: Geotek Geoprobe 66100T

Observer: C. Hunt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB23-1	From: 0 to: 2.5'	/	80%	0-2' moist brown sand w/ silt
	Time: 0042			
SB23-2	From: 2.5' to: 5'	/	80%	2.5-3.5 wet brown silt w/ sand
	Time: 0044			
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
	Time:	/		
	From: to:	/		
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	Time:	/		
	From: to:	/		
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	From: to:	/		
	Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Home Depot

SOIL BORING LOCATION: H0M13

SOIL BORING NUMBER: SB29

Date: 5-26-22

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0046-0050

Drilling Company/Rig Type: Geotek Geoprobe 6610 PT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macro core

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB29-1	From: 0 to: 2.5 Time: 0058	0	65%	0-2' moist brown sand w/ silt 2-2.5' wet brown silt w/ sand
SB29-2 (SB29-4)	From: 2.5 to: 5' Time: 0102	0	70%	2.5-4' wet brown silt w/ sand 4-5' moist brown sand w/ silt
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

SB29-4 is a duplicate of SB29-2

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: ITDL
PROJECT: Homer Airport

SOIL BORING LOCATION: HOM13

SOIL BORING NUMBER: SB30

Date: 5-26-22

Weather Conditions: 42°F Clear 29.96" Hg

Start/End: 0055-0059

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB30-1	From: 0 to: 2.5' Time: 0106	/	75%	Dry to moist brown sand w/ silt
SB30-2	From: 2.5' to: 5' Time: 0110	/	80%	moist brown sand w/ peat
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Hanner Airport

SOIL BORING NUMBER: SB192

SOIL BORING LOCATION: 10M13

Date: 5-25-22

Weather Conditions:

46°F clear 29.96" Hg

Start/End: 2319-2324

Drilling Company/Rig Type:

Codex Geoprobe 6610DT

Observer: C. Kent

Drilling/Sampling Method:

Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB192-1	From: 0 to: 2.5' Time: 2332	0	80%	Moist brown peat w/ sand
SB192-2	From: 2.5' to: 5' Time: 2337	0	85%	Moist brown peat 2.5-4 moist gray silt w/ silt 4-5'
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
	From: to: Time:			
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Notes: Amb = ambient; H.S. = headspace; NC = not collected

BGES, INC.
SOIL BORING LOG

BGES, INC.

ENVIRONMENTAL CONSULTANTS

CLIENT: HDL
PROJECT: Homer Airport

SOIL BORING LOCATION: 110M13

SOIL BORING NUMBER: SB189

Date: 5-25-22

Weather Conditions: 45°F clear 29.96" Hg

Start/End: 7:26-7:30

Drilling Company/Rig Type: Geotek Geoprobe 6610DT

Observer: C. Witt

Drilling/Sampling Method: Direct Push Macrocore

Sample Number	Depth (feet)	PID (ppm) Amb/H.S.	Recovery	Description
SB189-1	From: 0 to: 2.5' Time: 0342	/	60%	moist brown peat w. sand
SB189-2 (SB189-14)	From: 2.5' to: 5' Time: 0347	/	65%	moist grey sand
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
	From: to: Time:	/		
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	From: to: Time:	/		
	From: to: Time:	/		

Notes: Amb = ambient; H.S. = headspace; NC = not collected
SB189-4 is a duplicate of SB189-2

APPENDIX C
LABORATORY ANALYTICAL DATA

Report Prepared for:

Client Services
Pace Analytical National
12065 Lebanon Road
Mount Juliet TN 37122

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

August 19, 2022

Report Information:

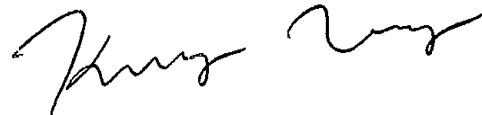
Pace Project #: 10610381
Sample Receipt Date: 05/27/2022
Client Project #: L1498516 WG1870691
Client Sub PO #: N/A
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kongmeng Vang, your Pace Project Manager.

This report has been reviewed by:



August 19, 2022

Kongmeng Vang, Project Manager
(612) 607-6382
(612) 607-6333 (fax)



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on twenty samples, one matrix spike, and one matrix spike duplicate submitted by a representative of Pace Analytical National. The samples were analyzed for twenty-nine perfluorinated compounds using DOD QSM 5.3 for PFAS. Reporting limits were set to quantification limits. This report was revised July 20, 2022 to update the analyte list to twenty-nine compounds. This report was revised August 19, 2022 to update sample IDs.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

A laboratory spike sample was also prepared with the sample batch using clean reference matrix that had been fortified with native standards. The recovery results were within the method limits. This spike indicates that extraction performed as expected.

On the matrix spikes there are several analytes that are marked R as the recoveries are diminished or elevated from the expected levels. These deviations may be due to the presence of the affected analytes in the sample material and/or sample inhomogeneity.

Diminished/elevated extracted internal standard (EIS) recovery ("R" flagged) were present in samples and CCV, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Samples SB1-1, SB32-1, SB192-1, SB191-1, SB193-1, SB-189-4, SB189-2, and SB190-1 were analyzed with the ending CCV failed low for PFPeS. Low recovery indicates a potential low bias in the quantitation for PFPeS in the associated samples.

With the exception of 13C4_PFOA, 13C2_PFDA, and 13C2_PFHxA in sample "SB10-1", the four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range. The affected values were flagged "D" on the results tables.

DISCUSSION

Values were flagged "I" where incorrect isotope ratios were obtained.

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
SB19-1	10610381001	05/27/2022	Solid
SB15-1	10610381002	05/27/2022	Solid
SB21-1	10610381003	05/27/2022	Solid
SB22-1	10610381004	05/27/2022	Solid
SB1-3	10610381005	05/27/2022	Solid
SB23-1	10610381006	05/27/2022	Solid
SB30-1	10610381007	05/27/2022	Solid
SB29-1	10610381008	05/27/2022	Solid
SB31-1	10610381009	05/27/2022	Solid
SB10-1	10610381010	05/27/2022	Solid
SB20-1	10610381011	05/27/2022	Solid
SB33-1	10610381012	05/27/2022	Solid
SB1-1	10610381013	05/27/2022	Solid
SB32-1	10610381014	05/27/2022	Solid
SB192-1	10610381015	05/27/2022	Solid
SB191-1	10610381016	05/27/2022	Solid
SB193-1	10610381017	05/27/2022	Solid
SB180-4	10610381018	05/27/2022	Solid
SB180-2	10610381019	05/27/2022	Solid
SB190-1	10610381020	05/27/2022	Solid

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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DC#_ Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt
(SCUR)
Effective Date: 04/12/2022

Sample Condition Upon Receipt Client Name: PACE Juliet, TN Project #: _____
 Courier: Fed Ex UPS USPS Client
 Pace Speedee Commercial
 Tracking Number: 8066 6152 5624 See Exceptions ENV-FRM-MIN4-0142

WO#: 10610381
PM: KV Due Date: 06/14/22
CLIENT: ESC_TN

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Biological Tissue Frozen? Yes No N/A
 Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No
 Thermometer: T1(0461) T2(1336) T3(0459) T4(0254) T5(0489) T6(0235) Type of Ice: Wet Blue None Dry Melted
 T7 (0042) 01339252/1710 122639816 140792808

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A
 Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 4.8 °C Average Corrected Temp (no temp blank only): _____ °C See Exceptions ENV-FRM-MIN4-0142 1 Container
 Correction Factor: TRUE Cooler Temp Corrected w/temp blank: 4.8 °C

USDA Regulated Soil: (N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: JM 5/27/22
 Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA. Did samples originate from a foreign source (internationally, including MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Hawaii and Puerto Rico)? Yes No
 If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8hr, <24 hrs, <input type="checkbox"/> >24 hrs
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Matrix: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Positive for Res. Chlorine? <input type="checkbox"/> Yes <input type="checkbox"/> No See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142 pH Paper Lot#
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION Field Data Required? Yes No
 Person Contacted: _____ Date/Time: _____
 Comments/Resolution: Client requested the sample IDs of sample 018 and sample 019 to be updated to SB180-4 and SB180-2, respectively.

Project Manager Review: _____ Date: 5/31/22
 Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (reg. out of hold, incorrect preservative, out of temp, incorrect containers).
 Labeled by: [Signature]

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10610381001	SB19-1	SW3535	33309	PFAS-36	B220622B_00
10610381002	SB15-1	SW3535	33309	PFAS-36	B220622B_00
10610381003	SB21-1	SW3535	33309	PFAS-36	B220622B_00
10610381004	SB22-1	SW3535	33309	PFAS-36	B220627A_00
10610381005	SB1-3	SW3535	33309	PFAS-36	B220622B_00
10610381006	SB23-1	SW3535	33309	PFAS-36	B220622B_00
10610381007	SB30-1	SW3535	33309	PFAS-36	B220622B_00
10610381007	SB30-1	SW3535	33309	PFAS-36	B220624A_00
10610381008	SB29-1	SW3535	33309	PFAS-36	B220624A_00
10610381008	SB29-1	SW3535	33309	PFAS-36	B220627A_00
10610381009	SB31-1	SW3535	33309	PFAS-36	B220622B_01
10610381010	SB10-1	SW3535	33309	PFAS-36	B220622B_01
10610381010	SB10-1	SW3535	33309	PFAS-36	B220624A_00
10610381011	SB20-1	SW3535	33309	PFAS-36	B220622B_01
10610381012	SB33-1	SW3535	33309	PFAS-36	B220622B_01
10610381013	SB1-1	SW3535	33329	PFAS-36	Q220627A_02
10610381014	SB32-1	SW3535	33329	PFAS-36	Q220627A_02
10610381015	SB192-1	SW3535	33329	PFAS-36	Q220627A_02
10610381016	SB191-1	SW3535	33329	PFAS-36	Q220627A_02
10610381017	SB193-1	SW3535	33329	PFAS-36	Q220627A_02
10610381018	SB180-4	SW3535	33329	PFAS-36	Q220627A_02
10610381019	SB180-2	SW3535	33329	PFAS-36	Q220627A_02
10610381020	SB190-1	SW3535	33329	PFAS-36	Q220627A_02

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Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB19-1
 Lab Sample ID 10610381001
 Lab File ID B220622B_006
 Matrix Soil
 Collected 05/26/2022 00:14
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.23g
 Percent Moisture 8.9395%
 Dry Weight Extracted 4.76g
 Ical ID 220621B02
 CCal File B220622B_002
 Ending CCal File B220622B_014
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.025	1	375-22-4		06/22/2022 11:54
PFPeA	0.20	0.11	0.11	0.028	1	2706-90-3		06/22/2022 11:54
HFPO-DA	ND	0.11	0.11	0.031	1	13252-13-6		06/22/2022 11:54
PFBS	ND	0.093	0.093	0.023	1	375-73-5		06/22/2022 11:54
PFHxA	0.29	0.11	0.11	0.032	1	307-24-4		06/22/2022 11:54
4:2 FTS	ND	0.098	0.098	0.033	1	757124-72-4		06/22/2022 11:54
PFPeS	ND	0.099	0.099	0.020	1	2706-91-4		06/22/2022 11:54
PFHpA	0.32	0.11	0.11	0.024	1	375-85-9		06/22/2022 11:54
DONA	ND	0.099	0.099	0.040	1	919005-14-4		06/22/2022 11:54
PFHxS	0.73	0.096	0.096	0.023	1	355-46-4		06/22/2022 11:54
PFOA	0.49	0.11	0.11	0.024	1	335-67-1		06/22/2022 11:54
6:2 FTS	ND	0.100	0.100	0.034	1	27619-97-2		06/22/2022 11:54
PFHpS	ND	0.100	0.100	0.026	1	375-92-8		06/22/2022 11:54
PFNA	1.5	0.11	0.11	0.030	1	375-95-1		06/22/2022 11:54
PFOSAm	ND	0.11	0.11	0.025	1	754-91-6		06/22/2022 11:54
PFOS	2.8	0.097	0.097	0.029	1	1763-23-1		06/22/2022 11:54
MeFOSA	ND	0.11	0.11	0.026	1	31506-32-8		06/22/2022 11:54
PFDA	0.22	0.11	0.11	0.023	1	335-76-2		06/22/2022 11:54
8:2 FTS	ND	0.10	0.10	0.027	1	39108-34-4		06/22/2022 11:54
9-CI-PF3ON	ND	0.098	0.098	0.015	1	756426-58-1		06/22/2022 11:54
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/22/2022 11:54
PFUnDA	2.3	0.11	0.11	0.030	1	2058-94-8		06/22/2022 11:54
NMeFOSAA	ND	0.11	0.11	0.024	1	2355-31-9		06/22/2022 11:54
NEtFOSAA	ND	0.11	0.11	0.026	1	2991-50-6		06/22/2022 11:54
PFDS	ND	0.10	0.10	0.026	1	335-77-3		06/22/2022 11:54
PFDOA	ND	0.11	0.11	0.028	1	307-55-1		06/22/2022 11:54
11-CI-PF3OUdS	ND	0.099	0.099	0.017	1	763051-92-9		06/22/2022 11:54
PFTTrDA	1.2	0.11	0.11	0.022	1	72629-94-8		06/22/2022 11:54
PFTDA	ND	0.11	0.11	0.034	1	376-06-7		06/22/2022 11:54

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB19-1	Total Amount Extracted	5.23g
Lab Sample ID	10610381001	Percent Moisture	8.9395%
Lab File ID	B220622B_006	Dry Weight Extracted	4.76g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 00:14	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.1	101	50-150		06/22/2022 11:54
13C4 PFOA	1.1	1.1	103	50-150		06/22/2022 11:54
13C2 PFDA	1.1	1.2	116	50-150		06/22/2022 11:54
13C4 PFOS	1.0	1.2	119	50-150		06/22/2022 11:54

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.98	93	50-150		06/22/2022 11:54
13C5 PFPeA	1.1	0.95	90	50-150		06/22/2022 11:54
13C3 PFBS	0.98	1.0	106	50-150		06/22/2022 11:54
13C2 4:2FTS	0.98	4.0	408	50-150	R	06/22/2022 11:54
13C5 PFHxA	1.1	0.94	90	50-150		06/22/2022 11:54
13C4 PFHpA	1.1	1.0	99	50-150		06/22/2022 11:54
13C3 PFHxS	0.99	0.96	96	50-150		06/22/2022 11:54
13C2 6:2FTS	1.00	4.9	490	50-150	R	06/22/2022 11:54
13C8 PFOA	1.1	1.1	105	50-150		06/22/2022 11:54
13C9 PFNA	1.1	1.1	104	50-150		06/22/2022 11:54
13C8 PFOS	1.0	1.0	100	50-150		06/22/2022 11:54
13C2 8:2FTS	1.0	4.8	478	50-150	R	06/22/2022 11:54
13C6 PFDA	1.1	1.1	104	50-150		06/22/2022 11:54
d3-MeFOSAA	1.1	1.7	162	50-150	R	06/22/2022 11:54
13C8 PFOSA	1.1	0.94	90	50-150		06/22/2022 11:54
d5-EtFOSAA	1.1	1.7	158	50-150	R	06/22/2022 11:54
13C7 PFUdA	1.1	1.1	102	50-150		06/22/2022 11:54
13C2 PFDoA	1.1	1.0	97	50-150		06/22/2022 11:54
13C2 PFTeDA	1.1	1.0	98	50-150		06/22/2022 11:54
13C3 HFPO-DA	1.1	0.85	81	50-150		06/22/2022 11:54
d3-N-MeFOSA	1.1	0.51	49	10-150		06/22/2022 11:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB19-1	Total Amount Extracted	5.23g
Lab Sample ID	10610381001	Percent Moisture	8.9395%
Lab File ID	B220622B_006	Dry Weight Extracted	4.76g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 00:14	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.81	5.81	10		06/22/2022 11:54
13C4 PFOA	N/A	N/A	7.16	7.17	21		06/22/2022 11:54
13C2 PFDA	N/A	N/A	8.54	8.54	14		06/22/2022 11:54
13C4 PFOS	N/A	N/A	9.02	9.01	31		06/22/2022 11:54

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.38	24		06/22/2022 11:54
13C5 PFPeA	N/A	N/A	5.12	5.16	15		06/22/2022 11:54
13C3 PFBS	N/A	N/A	6.07	6.13	52		06/22/2022 11:54
13C2 4:2FTS	N/A	N/A	5.53	5.52	34	R	06/22/2022 11:54
13C5 PFHxA	N/A	N/A	5.81	5.84	10		06/22/2022 11:54
13C4 PFHpA	N/A	N/A	6.49	6.49	12		06/22/2022 11:54
13C3 PFHxS	N/A	N/A	7.59	7.59	51		06/22/2022 11:54
13C2 6:2FTS	N/A	N/A	6.82	6.82	43	R	06/22/2022 11:54
13C8 PFOA	N/A	N/A	7.16	7.17	20		06/22/2022 11:54
13C9 PFNA	N/A	N/A	7.85	7.85	14		06/22/2022 11:54
13C8 PFOS	N/A	N/A	9.03	9.01	32		06/22/2022 11:54
13C2 8:2FTS	N/A	N/A	8.15	8.15	37	R	06/22/2022 11:54
13C6 PFDA	N/A	N/A	8.54	8.54	13		06/22/2022 11:54
d3-MeFOSAA	N/A	N/A	8.41	8.40	13	R	06/22/2022 11:54
13C8 PFOSA	N/A	N/A	10.79	10.77	24		06/22/2022 11:54
d5-EtFOSAA	N/A	N/A	8.72	8.71	11	R	06/22/2022 11:54
13C7 PFUdA	N/A	N/A	9.23	9.22	15		06/22/2022 11:54
13C2 PFDaA	N/A	N/A	9.90	9.90	65		06/22/2022 11:54
13C2 PFTeDA	N/A	N/A	11.22	11.21	13		06/22/2022 11:54
13C3 HFPO-DA	N/A	N/A	6.09	6.13	13		06/22/2022 11:54
d3-N-MeFOSA	N/A	N/A	12.68	12.66	48		06/22/2022 11:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB19-1	Total Amount Extracted	5.23g
Lab Sample ID	10610381001	Percent Moisture	8.9395%
Lab File ID	B220622B_006	Dry Weight Extracted	4.76g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 00:14	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.33	ND		06/22/2022 11:54
PFPeA	N/A	N/A	5.13	5.17	13		06/22/2022 11:54
HFPO-DA	0.35	0.30	6.11	6.10	ND		06/22/2022 11:54
PFBS	0.48	0.41	6.07	6.07	ND		06/22/2022 11:54
PFHxA	0.07	0.09	5.82	5.82	95		06/22/2022 11:54
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/22/2022 11:54
PFPeS	0.37	0.45	6.85	6.86	ND		06/22/2022 11:54
PFHpA	0.29	0.33	6.50	6.50	23		06/22/2022 11:54
DONA	0.00	0.56	0.00	6.75	ND		06/22/2022 11:54
PFHxS	0.35	0.38	7.59	7.60	29		06/22/2022 11:54
PFOA	0.37	0.38	7.17	7.18	16		06/22/2022 11:54
6:2 FTS	0.84	0.83	6.82	6.82	ND		06/22/2022 11:54
PFHpS	0.37	0.44	8.33	8.32	ND		06/22/2022 11:54
PFNA	0.15	0.13	7.86	7.86	48		06/22/2022 11:54
PFOSAm	N/A	N/A	10.80	10.78	ND		06/22/2022 11:54
PFOS	0.37	0.40	9.03	9.03	30		06/22/2022 11:54
MeFOSA	0.00	0.52	0.00	12.69	ND		06/22/2022 11:54
PFDA	0.17	0.15	8.55	8.54	13		06/22/2022 11:54
8:2 FTS	1.40	0.99	8.15	8.15	ND		06/22/2022 11:54
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 11:54
PFNS	0.03	0.47	9.68	9.71	ND		06/22/2022 11:54
PFUnDA	0.13	0.14	9.23	9.22	69		06/22/2022 11:54
NMeFOSAA	1.60	0.93	8.36	8.41	ND		06/22/2022 11:54
NEtFOSAA	0.00	0.78	0.00	8.72	ND		06/22/2022 11:54
PFDS	0.51	0.33	10.40	10.37	ND		06/22/2022 11:54
PFDOA	0.16	0.17	9.91	9.90	ND		06/22/2022 11:54
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 11:54
PFTDA	0.15	0.15	10.58	10.57	75		06/22/2022 11:54
PFTDA	0.23	0.24	11.22	11.21	ND		06/22/2022 11:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB15-1
 Lab Sample ID 10610381002
 Lab File ID B220622B_007
 Matrix Soil
 Collected 05/26/2022 03:57
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.05g
 Percent Moisture 11.73%
 Dry Weight Extracted 4.46g
 Ical ID 220621B02
 CCal File B220622B_002
 Ending CCal File B220622B_014
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.027	1	375-22-4		06/22/2022 12:14
PFPeA	ND	0.11	0.11	0.029	1	2706-90-3		06/22/2022 12:14
HFPO-DA	ND	0.11	0.11	0.033	1	13252-13-6		06/22/2022 12:14
PFBS	ND	0.099	0.099	0.025	1	375-73-5		06/22/2022 12:14
PFHxA	ND	0.11	0.11	0.034	1	307-24-4		06/22/2022 12:14
4:2 FTS	ND	0.10	0.10	0.036	1	757124-72-4		06/22/2022 12:14
PFPeS	ND	0.11	0.11	0.021	1	2706-91-4		06/22/2022 12:14
PFHpA	ND	0.11	0.11	0.025	1	375-85-9		06/22/2022 12:14
DONA	ND	0.11	0.11	0.043	1	919005-14-4		06/22/2022 12:14
PFHxS	0.22	0.10	0.10	0.025	1	355-46-4		06/22/2022 12:14
PFOA	ND	0.11	0.11	0.025	1	335-67-1		06/22/2022 12:14
6:2 FTS	ND	0.11	0.11	0.036	1	27619-97-2		06/22/2022 12:14
PFHpS	ND	0.11	0.11	0.028	1	375-92-8		06/22/2022 12:14
PFNA	ND	0.11	0.11	0.032	1	375-95-1		06/22/2022 12:14
PFOSAm	ND	0.11	0.11	0.026	1	754-91-6		06/22/2022 12:14
PFOS	3.1	0.10	0.10	0.031	1	1763-23-1		06/22/2022 12:14
MeFOSA	ND	0.11	0.11	0.028	1	31506-32-8		06/22/2022 12:14
PFDA	ND	0.11	0.11	0.024	1	335-76-2		06/22/2022 12:14
8:2 FTS	0.67	0.11	0.11	0.029	1	39108-34-4		06/22/2022 12:14
9-CI-PF3ON	ND	0.10	0.10	0.016	1	756426-58-1		06/22/2022 12:14
PFNS	0.19 I	0.11	0.11	0.020	1	68259-12-1		06/22/2022 12:14
PFUnDA	ND	0.11	0.11	0.031	1	2058-94-8		06/22/2022 12:14
NMeFOSAA	ND	0.11	0.11	0.026	1	2355-31-9		06/22/2022 12:14
NEtFOSAA	ND	0.11	0.11	0.028	1	2991-50-6		06/22/2022 12:14
PFDS	0.15	0.11	0.11	0.028	1	335-77-3		06/22/2022 12:14
PFDOA	ND	0.11	0.11	0.030	1	307-55-1		06/22/2022 12:14
11-CI-PF3OUdS	ND	0.11	0.11	0.018	1	763051-92-9		06/22/2022 12:14
PFTTrDA	ND	0.11	0.11	0.024	1	72629-94-8		06/22/2022 12:14
PFTDA	ND	0.11	0.11	0.036	1	376-06-7		06/22/2022 12:14

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB15-1	Total Amount Extracted	5.05g
Lab Sample ID	10610381002	Percent Moisture	11.73%
Lab File ID	B220622B_007	Dry Weight Extracted	4.46g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 03:57	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	119	50-150		06/22/2022 12:14
13C4 PFOA	1.1	1.3	120	50-150		06/22/2022 12:14
13C2 PFDA	1.1	1.5	134	50-150		06/22/2022 12:14
13C4 PFOS	1.1	1.4	127	50-150		06/22/2022 12:14

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	101	50-150		06/22/2022 12:14
13C5 PFPeA	1.1	1.2	105	50-150		06/22/2022 12:14
13C3 PFBS	1.0	1.2	114	50-150		06/22/2022 12:14
13C2 4:2FTS	1.0	3.8	365	50-150	R	06/22/2022 12:14
13C5 PFHxA	1.1	1.2	108	50-150		06/22/2022 12:14
13C4 PFHpA	1.1	1.2	111	50-150		06/22/2022 12:14
13C3 PFHxS	1.1	1.2	112	50-150		06/22/2022 12:14
13C2 6:2FTS	1.1	3.4	315	50-150	R	06/22/2022 12:14
13C8 PFOA	1.1	1.3	118	50-150		06/22/2022 12:14
13C9 PFNA	1.1	1.3	119	50-150		06/22/2022 12:14
13C8 PFOS	1.1	1.1	104	50-150		06/22/2022 12:14
13C2 8:2FTS	1.1	4.1	380	50-150	R	06/22/2022 12:14
13C6 PFDA	1.1	1.4	129	50-150		06/22/2022 12:14
d3-MeFOSAA	1.1	1.8	162	50-150	R	06/22/2022 12:14
13C8 PFOSA	1.1	1.2	107	50-150		06/22/2022 12:14
d5-EtFOSAA	1.1	1.8	163	50-150	R	06/22/2022 12:14
13C7 PFUdA	1.1	1.4	125	50-150		06/22/2022 12:14
13C2 PFDoA	1.1	1.1	101	50-150		06/22/2022 12:14
13C2 PFTeDA	1.1	1.3	119	50-150		06/22/2022 12:14
13C3 HFPO-DA	1.1	1.1	94	50-150		06/22/2022 12:14
d3-N-MeFOSA	1.1	0.43	39	10-150		06/22/2022 12:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB15-1	Total Amount Extracted	5.05g
Lab Sample ID	10610381002	Percent Moisture	11.73%
Lab File ID	B220622B_007	Dry Weight Extracted	4.46g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 03:57	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.81	5.81	12		06/22/2022 12:14
13C4 PFOA	N/A	N/A	7.19	7.17	21		06/22/2022 12:14
13C2 PFDA	N/A	N/A	8.55	8.54	22		06/22/2022 12:14
13C4 PFOS	N/A	N/A	9.02	9.01	45		06/22/2022 12:14

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.38	27		06/22/2022 12:14
13C5 PFPeA	N/A	N/A	5.12	5.16	17		06/22/2022 12:14
13C3 PFBS	N/A	N/A	6.07	6.13	77		06/22/2022 12:14
13C2 4:2FTS	N/A	N/A	5.53	5.52	56	R	06/22/2022 12:14
13C5 PFHxA	N/A	N/A	5.81	5.84	11		06/22/2022 12:14
13C4 PFHpA	N/A	N/A	6.50	6.49	15		06/22/2022 12:14
13C3 PFHxS	N/A	N/A	7.61	7.59	95		06/22/2022 12:14
13C2 6:2FTS	N/A	N/A	6.84	6.82	46	R	06/22/2022 12:14
13C8 PFOA	N/A	N/A	7.19	7.17	26		06/22/2022 12:14
13C9 PFNA	N/A	N/A	7.87	7.85	21		06/22/2022 12:14
13C8 PFOS	N/A	N/A	9.02	9.01	50		06/22/2022 12:14
13C2 8:2FTS	N/A	N/A	8.16	8.15	59	R	06/22/2022 12:14
13C6 PFDA	N/A	N/A	8.54	8.54	21		06/22/2022 12:14
d3-MeFOSAA	N/A	N/A	8.41	8.40	15	R	06/22/2022 12:14
13C8 PFOSA	N/A	N/A	10.79	10.77	23		06/22/2022 12:14
d5-EtFOSAA	N/A	N/A	8.71	8.71	12	R	06/22/2022 12:14
13C7 PFUdA	N/A	N/A	9.22	9.22	21		06/22/2022 12:14
13C2 PFDoA	N/A	N/A	9.91	9.90	77		06/22/2022 12:14
13C2 PFTeDA	N/A	N/A	11.22	11.21	18		06/22/2022 12:14
13C3 HFPO-DA	N/A	N/A	6.09	6.13	13		06/22/2022 12:14
d3-N-MeFOSA	N/A	N/A	12.68	12.66	64		06/22/2022 12:14

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB15-1	Total Amount Extracted	5.05g
Lab Sample ID	10610381002	Percent Moisture	11.73%
Lab File ID	B220622B_007	Dry Weight Extracted	4.46g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 03:57	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.33	ND		06/22/2022 12:14
PFPeA	N/A	N/A	5.14	5.17	ND		06/22/2022 12:14
HFPO-DA	4.70	0.30	6.11	6.10	ND		06/22/2022 12:14
PFBS	0.35	0.41	6.07	6.07	ND		06/22/2022 12:14
PFHxA	0.07	0.09	5.82	5.82	ND		06/22/2022 12:14
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/22/2022 12:14
PFPeS	0.37	0.45	6.88	6.86	ND		06/22/2022 12:14
PFHpA	0.34	0.33	6.51	6.50	ND		06/22/2022 12:14
DONA	0.00	0.56	0.00	6.75	ND		06/22/2022 12:14
PFHxS	0.35	0.38	7.62	7.60	28		06/22/2022 12:14
PFOA	0.39	0.38	7.20	7.18	ND		06/22/2022 12:14
6:2 FTS	0.93	0.83	6.84	6.82	ND		06/22/2022 12:14
PFHpS	0.43	0.44	8.33	8.32	ND		06/22/2022 12:14
PFNA	0.14	0.13	7.87	7.86	ND		06/22/2022 12:14
PFOSAm	N/A	N/A	10.80	10.78	ND		06/22/2022 12:14
PFOS	0.39	0.40	9.03	9.03	60		06/22/2022 12:14
MeFOSA	0.00	0.52	0.00	12.69	ND		06/22/2022 12:14
PFDA	0.17	0.15	8.55	8.54	ND		06/22/2022 12:14
8:2 FTS	0.97	0.99	8.17	8.15	12		06/22/2022 12:14
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 12:14
PFNS	0.13	0.47	9.70	9.71	14	I	06/22/2022 12:14
PFUnDA	0.14	0.14	9.23	9.22	ND		06/22/2022 12:14
NMeFOSAA	0.72	0.93	8.34	8.41	ND		06/22/2022 12:14
NEtFOSAA	0.60	0.78	8.73	8.72	ND		06/22/2022 12:14
PFDS	0.39	0.33	10.39	10.37	10		06/22/2022 12:14
PFDOA	0.15	0.17	9.91	9.90	ND		06/22/2022 12:14
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 12:14
PFTrDA	0.17	0.15	10.58	10.57	ND		06/22/2022 12:14
PFTDA	0.21	0.24	11.22	11.21	ND		06/22/2022 12:14

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB21-1
 Lab Sample ID 10610381003
 Lab File ID B220622B_008
 Matrix Soil
 Collected 05/26/2022 12:30
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.06g
 Percent Moisture 4.7719%
 Dry Weight Extracted 4.82g
 Ical ID 220621B02
 CCal File B220622B_002
 Ending CCal File B220622B_014
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.025	1	375-22-4		06/22/2022 12:34
PFPeA	ND	0.10	0.10	0.027	1	2706-90-3		06/22/2022 12:34
HFPO-DA	ND	0.10	0.10	0.031	1	13252-13-6		06/22/2022 12:34
PFBS	ND	0.092	0.092	0.023	1	375-73-5		06/22/2022 12:34
PFHxA	ND	0.10	0.10	0.031	1	307-24-4		06/22/2022 12:34
4:2 FTS	ND	0.097	0.097	0.033	1	757124-72-4		06/22/2022 12:34
PFPeS	ND	0.098	0.098	0.019	1	2706-91-4		06/22/2022 12:34
PFHpA	ND	0.10	0.10	0.023	1	375-85-9		06/22/2022 12:34
DONA	ND	0.098	0.098	0.040	1	919005-14-4		06/22/2022 12:34
PFHxS	ND	0.094	0.094	0.023	1	355-46-4		06/22/2022 12:34
PFOA	ND	0.10	0.10	0.023	1	335-67-1		06/22/2022 12:34
6:2 FTS	ND	0.099	0.099	0.033	1	27619-97-2		06/22/2022 12:34
PFHpS	ND	0.099	0.099	0.026	1	375-92-8		06/22/2022 12:34
PFNA	ND	0.10	0.10	0.030	1	375-95-1		06/22/2022 12:34
PFOSAm	ND	0.10	0.10	0.024	1	754-91-6		06/22/2022 12:34
PFOS	0.63	0.096	0.096	0.029	1	1763-23-1		06/22/2022 12:34
MeFOSA	ND	0.10	0.10	0.026	1	31506-32-8		06/22/2022 12:34
PFDA	ND	0.10	0.10	0.023	1	335-76-2		06/22/2022 12:34
8:2 FTS	ND	0.100	0.100	0.027	1	39108-34-4		06/22/2022 12:34
9-CI-PF3ON	ND	0.097	0.097	0.015	1	756426-58-1		06/22/2022 12:34
PFNS	ND	0.100	0.100	0.019	1	68259-12-1		06/22/2022 12:34
PFUnDA	0.51	0.10	0.10	0.029	1	2058-94-8		06/22/2022 12:34
NMeFOSAA	ND	0.10	0.10	0.024	1	2355-31-9		06/22/2022 12:34
NEtFOSAA	ND	0.10	0.10	0.026	1	2991-50-6		06/22/2022 12:34
PFDS	ND	0.10	0.10	0.026	1	335-77-3		06/22/2022 12:34
PFDOA	ND	0.10	0.10	0.028	1	307-55-1		06/22/2022 12:34
11-CI-PF3OUdS	ND	0.098	0.098	0.017	1	763051-92-9		06/22/2022 12:34
PFTTrDA	0.15	0.10	0.10	0.022	1	72629-94-8		06/22/2022 12:34
PFTDA	ND	0.10	0.10	0.033	1	376-06-7		06/22/2022 12:34

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB21-1	Total Amount Extracted	5.06g
Lab Sample ID	10610381003	Percent Moisture	4.7719%
Lab File ID	B220622B_008	Dry Weight Extracted	4.82g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:30	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	1.1	110	50-150		06/22/2022 12:34
13C4 PFOA	1.0	1.1	109	50-150		06/22/2022 12:34
13C2 PFDA	1.0	1.2	120	50-150		06/22/2022 12:34
13C4 PFOS	0.99	1.1	115	50-150		06/22/2022 12:34

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	1.0	97	50-150		06/22/2022 12:34
13C5 PFPeA	1.0	1.0	98	50-150		06/22/2022 12:34
13C3 PFBS	0.96	1.0	108	50-150		06/22/2022 12:34
13C2 4:2FTS	0.97	3.2	332	50-150	R	06/22/2022 12:34
13C5 PFHxA	1.0	1.1	103	50-150		06/22/2022 12:34
13C4 PFHpA	1.0	1.1	102	50-150		06/22/2022 12:34
13C3 PFHxS	0.98	0.99	101	50-150		06/22/2022 12:34
13C2 6:2FTS	0.98	3.3	335	50-150	R	06/22/2022 12:34
13C8 PFOA	1.0	1.1	109	50-150		06/22/2022 12:34
13C9 PFNA	1.0	1.2	114	50-150		06/22/2022 12:34
13C8 PFOS	0.99	1.0	103	50-150		06/22/2022 12:34
13C2 8:2FTS	0.99	3.8	378	50-150	R	06/22/2022 12:34
13C6 PFDA	1.0	1.2	119	50-150		06/22/2022 12:34
d3-MeFOSAA	1.0	1.7	165	50-150	R	06/22/2022 12:34
13C8 PFOSA	1.0	1.0	97	50-150		06/22/2022 12:34
d5-EtFOSAA	1.0	1.8	171	50-150	R	06/22/2022 12:34
13C7 PFUdA	1.0	1.2	114	50-150		06/22/2022 12:34
13C2 PFDoA	1.0	1.1	101	50-150		06/22/2022 12:34
13C2 PFTeDA	1.0	1.2	120	50-150		06/22/2022 12:34
13C3 HFPO-DA	1.0	0.91	88	50-150		06/22/2022 12:34
d3-N-MeFOSA	1.0	0.45	43	10-150		06/22/2022 12:34

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Sample Analysis Summary
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Client Sample ID	SB21-1	Total Amount Extracted	5.06g
Lab Sample ID	10610381003	Percent Moisture	4.7719%
Lab File ID	B220622B_008	Dry Weight Extracted	4.82g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:30	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.81	5.81	15		06/22/2022 12:34
13C4 PFOA	N/A	N/A	7.17	7.17	19		06/22/2022 12:34
13C2 PFDA	N/A	N/A	8.54	8.54	23		06/22/2022 12:34
13C4 PFOS	N/A	N/A	9.02	9.01	30		06/22/2022 12:34

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.38	23		06/22/2022 12:34
13C5 PFPeA	N/A	N/A	5.13	5.16	17		06/22/2022 12:34
13C3 PFBS	N/A	N/A	6.07	6.13	54		06/22/2022 12:34
13C2 4:2FTS	N/A	N/A	5.53	5.52	38	R	06/22/2022 12:34
13C5 PFHxA	N/A	N/A	5.82	5.84	12		06/22/2022 12:34
13C4 PFHpA	N/A	N/A	6.49	6.49	13		06/22/2022 12:34
13C3 PFHxS	N/A	N/A	7.59	7.59	56		06/22/2022 12:34
13C2 6:2FTS	N/A	N/A	6.82	6.82	41	R	06/22/2022 12:34
13C8 PFOA	N/A	N/A	7.16	7.17	19		06/22/2022 12:34
13C9 PFNA	N/A	N/A	7.85	7.85	16		06/22/2022 12:34
13C8 PFOS	N/A	N/A	9.02	9.01	31		06/22/2022 12:34
13C2 8:2FTS	N/A	N/A	8.15	8.15	42	R	06/22/2022 12:34
13C6 PFDA	N/A	N/A	8.54	8.54	23		06/22/2022 12:34
d3-MeFOSAA	N/A	N/A	8.41	8.40	21	R	06/22/2022 12:34
13C8 PFOSA	N/A	N/A	10.79	10.77	20		06/22/2022 12:34
d5-EtFOSAA	N/A	N/A	8.71	8.71	12	R	06/22/2022 12:34
13C7 PFUdA	N/A	N/A	9.22	9.22	21		06/22/2022 12:34
13C2 PFDoA	N/A	N/A	9.91	9.90	65		06/22/2022 12:34
13C2 PFTeDA	N/A	N/A	11.23	11.21	19		06/22/2022 12:34
13C3 HFPO-DA	N/A	N/A	6.09	6.13	14		06/22/2022 12:34
d3-N-MeFOSA	N/A	N/A	12.68	12.66	52		06/22/2022 12:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB21-1	Total Amount Extracted	5.06g
Lab Sample ID	10610381003	Percent Moisture	4.7719%
Lab File ID	B220622B_008	Dry Weight Extracted	4.82g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:30	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.33	ND		06/22/2022 12:34
PFPeA	N/A	N/A	5.14	5.17	ND		06/22/2022 12:34
HFPO-DA	0.68	0.30	6.10	6.10	ND		06/22/2022 12:34
PFBS	0.59	0.41	6.07	6.07	ND		06/22/2022 12:34
PFHxA	0.06	0.09	5.82	5.82	ND		06/22/2022 12:34
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/22/2022 12:34
PFPeS	0.31	0.45	6.86	6.86	ND		06/22/2022 12:34
PFHpA	0.29	0.33	6.51	6.50	ND		06/22/2022 12:34
DONA	0.00	0.56	0.00	6.75	ND		06/22/2022 12:34
PFHxS	0.37	0.38	7.60	7.60	ND		06/22/2022 12:34
PFOA	0.35	0.38	7.17	7.18	ND		06/22/2022 12:34
6:2 FTS	1.00	0.83	6.82	6.82	ND		06/22/2022 12:34
PFHpS	0.30	0.44	8.32	8.32	ND		06/22/2022 12:34
PFNA	0.13	0.13	7.86	7.86	ND		06/22/2022 12:34
PFOSAm	N/A	N/A	10.80	10.78	ND		06/22/2022 12:34
PFOS	0.36	0.40	9.03	9.03	23		06/22/2022 12:34
MeFOSA	0.00	0.52	0.00	12.69	ND		06/22/2022 12:34
PFDA	0.14	0.15	8.55	8.54	ND		06/22/2022 12:34
8:2 FTS	1.00	0.99	8.16	8.15	ND		06/22/2022 12:34
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 12:34
PFNS	0.05	0.47	9.68	9.71	ND		06/22/2022 12:34
PFUnDA	0.13	0.14	9.23	9.22	44		06/22/2022 12:34
NMeFOSAA	0.00	0.93	0.00	8.41	ND		06/22/2022 12:34
NEtFOSAA	0.00	0.78	0.00	8.72	ND		06/22/2022 12:34
PFDS	0.64	0.33	10.39	10.37	ND		06/22/2022 12:34
PFDOA	0.14	0.17	9.91	9.90	ND		06/22/2022 12:34
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 12:34
PFTTrDA	0.16	0.15	10.59	10.57	33		06/22/2022 12:34
PFTDA	0.25	0.24	11.23	11.21	ND		06/22/2022 12:34

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB22-1
 Lab Sample ID 10610381004
 Lab File ID B220627A_011
 Matrix Soil
 Collected 05/26/2022 12:36
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.05g
 Percent Moisture 15.591%
 Dry Weight Extracted 4.26g
 Ical ID 220621B02
 CCal File B220627A_005
 Ending CCal File B220627A_012
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.13	0.12	0.12	0.028	1	375-22-4		06/27/2022 11:57
PFPeA	0.40	0.12	0.12	0.031	1	2706-90-3		06/27/2022 11:57
HFPO-DA	ND	0.12	0.12	0.035	1	13252-13-6		06/27/2022 11:57
PFBS	ND	0.10	0.10	0.026	1	375-73-5		06/27/2022 11:57
PFHxA	0.20	0.12	0.12	0.035	1	307-24-4		06/27/2022 11:57
4:2 FTS	ND	0.11	0.11	0.037	1	757124-72-4		06/27/2022 11:57
PFPeS	ND	0.11	0.11	0.022	1	2706-91-4		06/27/2022 11:57
PFHpA	0.19	0.12	0.12	0.026	1	375-85-9		06/27/2022 11:57
DONA	ND	0.11	0.11	0.045	1	919005-14-4		06/27/2022 11:57
PFHxS	0.17	0.11	0.11	0.026	1	355-46-4		06/27/2022 11:57
PFOA	0.35	0.12	0.12	0.026	1	335-67-1		06/27/2022 11:57
6:2 FTS	ND	0.11	0.11	0.038	1	27619-97-2		06/27/2022 11:57
PFHpS	ND	0.11	0.11	0.029	1	375-92-8		06/27/2022 11:57
PFNA	0.28	0.12	0.12	0.034	1	375-95-1		06/27/2022 11:57
PFOSAm	ND	0.12	0.12	0.028	1	754-91-6		06/27/2022 11:57
PFOS	1.1	0.11	0.11	0.033	1	1763-23-1		06/27/2022 11:57
MeFOSA	ND	0.12	0.12	0.029	1	31506-32-8		06/27/2022 11:57
PFDA	ND	0.12	0.12	0.025	1	335-76-2		06/27/2022 11:57
8:2 FTS	ND	0.11	0.11	0.030	1	39108-34-4		06/27/2022 11:57
9-CI-PF3ON	ND	0.11	0.11	0.017	1	756426-58-1		06/27/2022 11:57
PFNS	ND	0.11	0.11	0.021	1	68259-12-1		06/27/2022 11:57
PFUnDA	ND	0.12	0.12	0.033	1	2058-94-8		06/27/2022 11:57
NMeFOSAA	ND	0.12	0.12	0.027	1	2355-31-9		06/27/2022 11:57
NEtFOSAA	ND	0.12	0.12	0.029	1	2991-50-6		06/27/2022 11:57
PFDS	ND	0.11	0.11	0.030	1	335-77-3		06/27/2022 11:57
PFDOA	ND	0.12	0.12	0.031	1	307-55-1		06/27/2022 11:57
11-CI-PF3OUdS	ND	0.11	0.11	0.019	1	763051-92-9		06/27/2022 11:57
PFTTrDA	ND	0.12	0.12	0.025	1	72629-94-8		06/27/2022 11:57
PFTDA	ND	0.12	0.12	0.038	1	376-06-7		06/27/2022 11:57

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB22-1	Total Amount Extracted	5.05g
Lab Sample ID	10610381004	Percent Moisture	15.591%
Lab File ID	B220627A_011	Dry Weight Extracted	4.26g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:36	CCal File	B220627A_005
Received	05/27/2022 17:19	Ending CCal File	B220627A_012
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.6	134	50-150		06/27/2022 11:57
13C4 PFOA	1.2	1.6	136	50-150		06/27/2022 11:57
13C2 PFDA	1.2	1.6	139	50-150		06/27/2022 11:57
13C4 PFOS	1.1	1.6	142	50-150		06/27/2022 11:57

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.4	122	50-150		06/27/2022 11:57
13C5 PFPeA	1.2	1.5	131	50-150		06/27/2022 11:57
13C3 PFBS	1.1	1.4	132	50-150		06/27/2022 11:57
13C2 4:2FTS	1.1	3.3	304	50-150	R	06/27/2022 11:57
13C5 PFHxA	1.2	1.5	126	50-150		06/27/2022 11:57
13C4 PFHpA	1.2	1.6	139	50-150		06/27/2022 11:57
13C3 PFHxS	1.1	1.4	129	50-150		06/27/2022 11:57
13C2 6:2FTS	1.1	2.9	257	50-150	R	06/27/2022 11:57
13C8 PFOA	1.2	1.6	134	50-150		06/27/2022 11:57
13C9 PFNA	1.2	1.8	150	50-150		06/27/2022 11:57
13C8 PFOS	1.1	1.5	131	50-150		06/27/2022 11:57
13C2 8:2FTS	1.1	3.8	336	50-150	R	06/27/2022 11:57
13C6 PFDA	1.2	2.0	172	50-150	R	06/27/2022 11:57
d3-MeFOSAA	1.2	2.2	190	50-150	R	06/27/2022 11:57
13C8 PFOSA	1.2	1.6	136	50-150		06/27/2022 11:57
d5-EtFOSAA	1.2	2.3	194	50-150	R	06/27/2022 11:57
13C7 PFUdA	1.2	1.8	156	50-150	R	06/27/2022 11:57
13C2 PFDoA	1.2	1.8	150	50-150		06/27/2022 11:57
13C2 PFTeDA	1.2	1.6	135	50-150		06/27/2022 11:57
13C3 HFPO-DA	1.2	1.4	115	50-150		06/27/2022 11:57
d3-N-MeFOSA	1.2	0.31	27	10-150		06/27/2022 11:57

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB22-1	Total Amount Extracted	5.05g
Lab Sample ID	10610381004	Percent Moisture	15.591%
Lab File ID	B220627A_011	Dry Weight Extracted	4.26g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:36	CCal File	B220627A_005
Received	05/27/2022 17:19	Ending CCal File	B220627A_012
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.81	20		06/27/2022 11:57
13C4 PFOA	N/A	N/A	7.19	7.17	23		06/27/2022 11:57
13C2 PFDA	N/A	N/A	8.57	8.54	31		06/27/2022 11:57
13C4 PFOS	N/A	N/A	9.06	9.01	12		06/27/2022 11:57

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.32	27		06/27/2022 11:57
13C5 PFPeA	N/A	N/A	5.13	5.12	21		06/27/2022 11:57
13C3 PFBS	N/A	N/A	6.08	6.06	14		06/27/2022 11:57
13C2 4:2FTS	N/A	N/A	5.54	5.52	52	R	06/27/2022 11:57
13C5 PFHxA	N/A	N/A	5.83	5.81	18		06/27/2022 11:57
13C4 PFHpA	N/A	N/A	6.50	6.49	19		06/27/2022 11:57
13C3 PFHxS	N/A	N/A	7.62	7.59	18		06/27/2022 11:57
13C2 6:2FTS	N/A	N/A	6.83	6.82	81	R	06/27/2022 11:57
13C8 PFOA	N/A	N/A	7.19	7.17	35		06/27/2022 11:57
13C9 PFNA	N/A	N/A	7.87	7.85	21		06/27/2022 11:57
13C8 PFOS	N/A	N/A	9.06	9.01	10		06/27/2022 11:57
13C2 8:2FTS	N/A	N/A	8.17	8.15	10	R	06/27/2022 11:57
13C6 PFDA	N/A	N/A	8.57	8.54	23	R	06/27/2022 11:57
d3-MeFOSAA	N/A	N/A	8.43	8.40	20	R	06/27/2022 11:57
13C8 PFOSA	N/A	N/A	10.83	10.77	36		06/27/2022 11:57
d5-EtFOSAA	N/A	N/A	8.74	8.71	17	R	06/27/2022 11:57
13C7 PFUdA	N/A	N/A	9.26	9.22	39	R	06/27/2022 11:57
13C2 PFDaA	N/A	N/A	9.95	9.90	87		06/27/2022 11:57
13C2 PFTeDA	N/A	N/A	11.27	11.21	41		06/27/2022 11:57
13C3 HFPO-DA	N/A	N/A	6.10	6.09	19		06/27/2022 11:57
d3-N-MeFOSA	N/A	N/A	12.72	12.66	57		06/27/2022 11:57

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB22-1	Total Amount Extracted	5.05g
Lab Sample ID	10610381004	Percent Moisture	15.591%
Lab File ID	B220627A_011	Dry Weight Extracted	4.26g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:36	CCal File	B220627A_005
Received	05/27/2022 17:19	Ending CCal File	B220627A_012
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.33	97		06/27/2022 11:57
PFPeA	N/A	N/A	5.13	5.12	21		06/27/2022 11:57
HFPO-DA	0.00	0.27	0.00	6.10	ND		06/27/2022 11:57
PFBS	0.43	0.43	6.09	6.07	ND		06/27/2022 11:57
PFHxA	0.08	0.08	5.84	5.82	16		06/27/2022 11:57
4:2 FTS	0.00	0.87	0.00	5.53	ND		06/27/2022 11:57
PFPeS	0.41	0.41	6.88	6.86	ND		06/27/2022 11:57
PFHpA	0.30	0.32	6.51	6.50	22		06/27/2022 11:57
DONA	0.00	0.65	0.00	6.75	ND		06/27/2022 11:57
PFHxS	0.35	0.36	7.63	7.60	60		06/27/2022 11:57
PFOA	0.38	0.39	7.19	7.18	28		06/27/2022 11:57
6:2 FTS	0.91	0.84	6.83	6.87	ND		06/27/2022 11:57
PFHpS	0.54	0.43	8.36	8.32	ND		06/27/2022 11:57
PFNA	0.14	0.15	7.88	7.86	36		06/27/2022 11:57
PFOSAm	N/A	N/A	10.84	10.78	ND		06/27/2022 11:57
PFOS	0.38	0.44	9.07	9.03	65		06/27/2022 11:57
MeFOSA	0.00	0.54	0.00	12.69	ND		06/27/2022 11:57
PFDA	0.18	0.19	8.58	8.54	ND		06/27/2022 11:57
8:2 FTS	0.85	0.78	8.18	8.15	ND		06/27/2022 11:57
9-Cl-PF3ON	0.00	0.05	0.00	9.52	ND		06/27/2022 11:57
PFNS	0.05	0.46	9.74	9.71	ND		06/27/2022 11:57
PFUnDA	0.13	0.13	9.27	9.22	ND		06/27/2022 11:57
NMeFOSAA	0.00	0.85	0.00	8.41	ND		06/27/2022 11:57
NEtFOSAA	0.00	0.62	0.00	8.72	ND		06/27/2022 11:57
PFDS	0.46	0.34	10.44	10.37	ND		06/27/2022 11:57
PFDOA	0.17	0.17	9.95	9.90	ND		06/27/2022 11:57
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/27/2022 11:57
PFTrDA	0.18	0.16	10.63	10.57	ND		06/27/2022 11:57
PFTDA	0.27	0.24	11.27	11.21	ND		06/27/2022 11:57

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB1-3
 Lab Sample ID 10610381005
 Lab File ID B220622B_010
 Matrix Soil
 Collected 05/26/2022 06:26
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.23g
 Percent Moisture 9.0929%
 Dry Weight Extracted 4.75g
 Ical ID 220621B02
 CCal File B220622B_002
 Ending CCal File B220622B_014
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.025	1	375-22-4		06/22/2022 13:14
PFPeA	ND	0.11	0.11	0.028	1	2706-90-3		06/22/2022 13:14
HFPO-DA	ND	0.11	0.11	0.031	1	13252-13-6		06/22/2022 13:14
PFBS	ND	0.093	0.093	0.023	1	375-73-5		06/22/2022 13:14
PFHxA	ND	0.11	0.11	0.032	1	307-24-4		06/22/2022 13:14
4:2 FTS	ND	0.098	0.098	0.033	1	757124-72-4		06/22/2022 13:14
PFPeS	ND	0.099	0.099	0.020	1	2706-91-4		06/22/2022 13:14
PFHpA	ND	0.11	0.11	0.024	1	375-85-9		06/22/2022 13:14
DONA	ND	0.099	0.099	0.040	1	919005-14-4		06/22/2022 13:14
PFHxS	0.69	0.096	0.096	0.023	1	355-46-4		06/22/2022 13:14
PFOA	ND	0.11	0.11	0.024	1	335-67-1		06/22/2022 13:14
6:2 FTS	ND	0.100	0.100	0.034	1	27619-97-2		06/22/2022 13:14
PFHpS	ND	0.100	0.100	0.026	1	375-92-8		06/22/2022 13:14
PFNA	ND	0.11	0.11	0.030	1	375-95-1		06/22/2022 13:14
PFOSAm	ND	0.11	0.11	0.025	1	754-91-6		06/22/2022 13:14
PFOS	7.5	0.097	0.097	0.029	1	1763-23-1		06/22/2022 13:14
MeFOSA	ND	0.11	0.11	0.026	1	31506-32-8		06/22/2022 13:14
PFDA	ND	0.11	0.11	0.023	1	335-76-2		06/22/2022 13:14
8:2 FTS	ND	0.10	0.10	0.027	1	39108-34-4		06/22/2022 13:14
9-CI-PF3ON	ND	0.098	0.098	0.015	1	756426-58-1		06/22/2022 13:14
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/22/2022 13:14
PFUnDA	ND	0.11	0.11	0.030	1	2058-94-8		06/22/2022 13:14
NMeFOSAA	ND	0.11	0.11	0.025	1	2355-31-9		06/22/2022 13:14
NEtFOSAA	ND	0.11	0.11	0.026	1	2991-50-6		06/22/2022 13:14
PFDS	ND	0.10	0.10	0.027	1	335-77-3		06/22/2022 13:14
PFDOA	ND	0.11	0.11	0.028	1	307-55-1		06/22/2022 13:14
11-CI-PF3OUdS	ND	0.099	0.099	0.017	1	763051-92-9		06/22/2022 13:14
PFTTrDA	ND	0.11	0.11	0.023	1	72629-94-8		06/22/2022 13:14
PFTDA	ND	0.11	0.11	0.034	1	376-06-7		06/22/2022 13:14

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1-3	Total Amount Extracted	5.23g
Lab Sample ID	10610381005	Percent Moisture	9.0929%
Lab File ID	B220622B_010	Dry Weight Extracted	4.75g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 06:26	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	118	50-150		06/22/2022 13:14
13C4 PFOA	1.1	1.3	121	50-150		06/22/2022 13:14
13C2 PFDA	1.1	1.5	145	50-150		06/22/2022 13:14
13C4 PFOS	1.0	1.3	126	50-150		06/22/2022 13:14

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.2	110	50-150		06/22/2022 13:14
13C5 PFPeA	1.1	1.2	113	50-150		06/22/2022 13:14
13C3 PFBS	0.98	1.3	128	50-150		06/22/2022 13:14
13C2 4:2FTS	0.98	4.2	427	50-150	R	06/22/2022 13:14
13C5 PFHxA	1.1	1.2	113	50-150		06/22/2022 13:14
13C4 PFHpA	1.1	1.3	119	50-150		06/22/2022 13:14
13C3 PFHxS	1.00	1.2	120	50-150		06/22/2022 13:14
13C2 6:2FTS	1.00	7.9	787	50-150	R	06/22/2022 13:14
13C8 PFOA	1.1	1.3	125	50-150		06/22/2022 13:14
13C9 PFNA	1.1	1.4	129	50-150		06/22/2022 13:14
13C8 PFOS	1.0	1.2	114	50-150		06/22/2022 13:14
13C2 8:2FTS	1.0	5.0	500	50-150	R	06/22/2022 13:14
13C6 PFDA	1.1	1.4	136	50-150		06/22/2022 13:14
d3-MeFOSAA	1.1	2.2	205	50-150	R	06/22/2022 13:14
13C8 PFOSA	1.1	1.3	120	50-150		06/22/2022 13:14
d5-EtFOSAA	1.1	2.0	191	50-150	R	06/22/2022 13:14
13C7 PFUdA	1.1	1.4	134	50-150		06/22/2022 13:14
13C2 PFDoA	1.1	1.3	119	50-150		06/22/2022 13:14
13C2 PFTeDA	1.1	1.4	133	50-150		06/22/2022 13:14
13C3 HFPO-DA	1.1	1.0	96	50-150		06/22/2022 13:14
d3-N-MeFOSA	1.1	0.45	42	10-150		06/22/2022 13:14

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1-3	Total Amount Extracted	5.23g
Lab Sample ID	10610381005	Percent Moisture	9.0929%
Lab File ID	B220622B_010	Dry Weight Extracted	4.75g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 06:26	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.81	5.81	13		06/22/2022 13:14
13C4 PFOA	N/A	N/A	7.17	7.17	19		06/22/2022 13:14
13C2 PFDA	N/A	N/A	8.54	8.54	20		06/22/2022 13:14
13C4 PFOS	N/A	N/A	9.02	9.01	65		06/22/2022 13:14

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.38	26		06/22/2022 13:14
13C5 PFPeA	N/A	N/A	5.12	5.16	19		06/22/2022 13:14
13C3 PFBS	N/A	N/A	6.06	6.13	74		06/22/2022 13:14
13C2 4:2FTS	N/A	N/A	5.53	5.52	58	R	06/22/2022 13:14
13C5 PFHxA	N/A	N/A	5.81	5.84	12		06/22/2022 13:14
13C4 PFHpA	N/A	N/A	6.49	6.49	15		06/22/2022 13:14
13C3 PFHxS	N/A	N/A	7.59	7.59	98		06/22/2022 13:14
13C2 6:2FTS	N/A	N/A	6.82	6.82	94	R	06/22/2022 13:14
13C8 PFOA	N/A	N/A	7.17	7.17	19		06/22/2022 13:14
13C9 PFNA	N/A	N/A	7.85	7.85	19		06/22/2022 13:14
13C8 PFOS	N/A	N/A	9.03	9.01	61		06/22/2022 13:14
13C2 8:2FTS	N/A	N/A	8.15	8.15	76	R	06/22/2022 13:14
13C6 PFDA	N/A	N/A	8.54	8.54	15		06/22/2022 13:14
d3-MeFOSAA	N/A	N/A	8.41	8.40	16	R	06/22/2022 13:14
13C8 PFOSA	N/A	N/A	10.79	10.77	21		06/22/2022 13:14
d5-EtFOSAA	N/A	N/A	8.72	8.71	14	R	06/22/2022 13:14
13C7 PFUdA	N/A	N/A	9.23	9.22	24		06/22/2022 13:14
13C2 PFDoA	N/A	N/A	9.91	9.90	75		06/22/2022 13:14
13C2 PFTeDA	N/A	N/A	11.23	11.21	20		06/22/2022 13:14
13C3 HFPO-DA	N/A	N/A	6.09	6.13	14		06/22/2022 13:14
d3-N-MeFOSA	N/A	N/A	12.69	12.66	41		06/22/2022 13:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1-3	Total Amount Extracted	5.23g
Lab Sample ID	10610381005	Percent Moisture	9.0929%
Lab File ID	B220622B_010	Dry Weight Extracted	4.75g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 06:26	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.33	ND		06/22/2022 13:14
PFPeA	N/A	N/A	5.13	5.17	ND		06/22/2022 13:14
HFPO-DA	0.24	0.30	6.09	6.10	ND		06/22/2022 13:14
PFBS	0.46	0.41	6.07	6.07	ND		06/22/2022 13:14
PFHxA	0.06	0.09	5.82	5.82	ND		06/22/2022 13:14
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/22/2022 13:14
PFPeS	0.39	0.45	6.85	6.86	ND		06/22/2022 13:14
PFHpA	0.33	0.33	6.50	6.50	ND		06/22/2022 13:14
DONA	0.00	0.56	0.00	6.75	ND		06/22/2022 13:14
PFHxS	0.33	0.38	7.60	7.60	44		06/22/2022 13:14
PFOA	0.39	0.38	7.18	7.18	ND		06/22/2022 13:14
6:2 FTS	0.77	0.83	6.83	6.82	ND		06/22/2022 13:14
PFHpS	0.39	0.44	8.33	8.32	ND		06/22/2022 13:14
PFNA	0.11	0.13	7.86	7.86	ND		06/22/2022 13:14
PFOSAm	N/A	N/A	10.81	10.78	ND		06/22/2022 13:14
PFOS	0.40	0.40	9.04	9.03	52		06/22/2022 13:14
MeFOSA	0.00	0.52	0.00	12.69	ND		06/22/2022 13:14
PFDA	0.15	0.15	8.55	8.54	ND		06/22/2022 13:14
8:2 FTS	1.70	0.99	8.16	8.15	ND		06/22/2022 13:14
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 13:14
PFNS	0.12	0.47	9.71	9.71	ND		06/22/2022 13:14
PFUnDA	0.11	0.14	9.24	9.22	ND		06/22/2022 13:14
NMeFOSAA	0.73	0.93	8.45	8.41	ND		06/22/2022 13:14
NEtFOSAA	0.00	0.78	0.00	8.72	ND		06/22/2022 13:14
PFDS	0.35	0.33	10.40	10.37	ND		06/22/2022 13:14
PFDOA	0.13	0.17	9.92	9.90	ND		06/22/2022 13:14
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 13:14
PFTrDA	0.24	0.15	10.59	10.57	ND		06/22/2022 13:14
PFTDA	0.24	0.24	11.22	11.21	ND		06/22/2022 13:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB23-1
 Lab Sample ID 10610381006
 Lab File ID B220622B_011
 Matrix Soil
 Collected 05/26/2022 12:42
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.12g
 Percent Moisture 14.0463%
 Dry Weight Extracted 4.41g
 Ical ID 220621B02
 CCal File B220622B_002
 Ending CCal File B220622B_014
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.027	1	375-22-4		06/22/2022 13:34
PFPeA	ND	0.11	0.11	0.030	1	2706-90-3		06/22/2022 13:34
HFPO-DA	ND	0.11	0.11	0.034	1	13252-13-6		06/22/2022 13:34
PFBS	ND	0.10	0.10	0.025	1	375-73-5		06/22/2022 13:34
PFHxA	ND	0.11	0.11	0.034	1	307-24-4		06/22/2022 13:34
4:2 FTS	ND	0.11	0.11	0.036	1	757124-72-4		06/22/2022 13:34
PFPeS	ND	0.11	0.11	0.021	1	2706-91-4		06/22/2022 13:34
PFHpA	ND	0.11	0.11	0.026	1	375-85-9		06/22/2022 13:34
DONA	ND	0.11	0.11	0.044	1	919005-14-4		06/22/2022 13:34
PFHxS	0.12	0.10	0.10	0.025	1	355-46-4		06/22/2022 13:34
PFOA	ND	0.11	0.11	0.026	1	335-67-1		06/22/2022 13:34
6:2 FTS	ND	0.11	0.11	0.036	1	27619-97-2		06/22/2022 13:34
PFHpS	ND	0.11	0.11	0.028	1	375-92-8		06/22/2022 13:34
PFNA	ND	0.11	0.11	0.032	1	375-95-1		06/22/2022 13:34
PFOSAm	ND	0.11	0.11	0.027	1	754-91-6		06/22/2022 13:34
PFOS	0.44	0.10	0.10	0.032	1	1763-23-1		06/22/2022 13:34
MeFOSA	ND	0.11	0.11	0.028	1	31506-32-8		06/22/2022 13:34
PFDA	ND	0.11	0.11	0.025	1	335-76-2		06/22/2022 13:34
8:2 FTS	ND	0.11	0.11	0.029	1	39108-34-4		06/22/2022 13:34
9-CI-PF3ON	ND	0.11	0.11	0.016	1	756426-58-1		06/22/2022 13:34
PFNS	ND	0.11	0.11	0.020	1	68259-12-1		06/22/2022 13:34
PFUnDA	ND	0.11	0.11	0.032	1	2058-94-8		06/22/2022 13:34
NMeFOSAA	ND	0.11	0.11	0.026	1	2355-31-9		06/22/2022 13:34
NEtFOSAA	ND	0.11	0.11	0.028	1	2991-50-6		06/22/2022 13:34
PFDS	ND	0.11	0.11	0.029	1	335-77-3		06/22/2022 13:34
PFDOA	ND	0.11	0.11	0.030	1	307-55-1		06/22/2022 13:34
11-CI-PF3OUdS	ND	0.11	0.11	0.018	1	763051-92-9		06/22/2022 13:34
PFTTrDA	ND	0.11	0.11	0.024	1	72629-94-8		06/22/2022 13:34
PFTDA	ND	0.11	0.11	0.036	1	376-06-7		06/22/2022 13:34

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB23-1	Total Amount Extracted	5.12g
Lab Sample ID	10610381006	Percent Moisture	14.0463%
Lab File ID	B220622B_011	Dry Weight Extracted	4.41g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:42	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.4	124	50-150		06/22/2022 13:34
13C4 PFOA	1.1	1.5	129	50-150		06/22/2022 13:34
13C2 PFDA	1.1	1.3	111	50-150		06/22/2022 13:34
13C4 PFOS	1.1	1.4	131	50-150		06/22/2022 13:34

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.2	107	50-150		06/22/2022 13:34
13C5 PFPeA	1.1	1.2	109	50-150		06/22/2022 13:34
13C3 PFBS	1.1	1.2	118	50-150		06/22/2022 13:34
13C2 4:2FTS	1.1	4.2	392	50-150	R	06/22/2022 13:34
13C5 PFHxA	1.1	1.3	111	50-150		06/22/2022 13:34
13C4 PFHpA	1.1	1.4	120	50-150		06/22/2022 13:34
13C3 PFHxS	1.1	1.2	111	50-150		06/22/2022 13:34
13C2 6:2FTS	1.1	5.0	462	50-150	R	06/22/2022 13:34
13C8 PFOA	1.1	1.4	121	50-150		06/22/2022 13:34
13C9 PFNA	1.1	1.3	118	50-150		06/22/2022 13:34
13C8 PFOS	1.1	1.2	114	50-150		06/22/2022 13:34
13C2 8:2FTS	1.1	4.8	440	50-150	R	06/22/2022 13:34
13C6 PFDA	1.1	1.2	107	50-150		06/22/2022 13:34
d3-MeFOSAA	1.1	2.2	193	50-150	R	06/22/2022 13:34
13C8 PFOSA	1.1	1.4	122	50-150		06/22/2022 13:34
d5-EtFOSAA	1.1	2.6	230	50-150	R	06/22/2022 13:34
13C7 PFUdA	1.1	1.5	130	50-150		06/22/2022 13:34
13C2 PFDoA	1.1	1.4	121	50-150		06/22/2022 13:34
13C2 PFTeDA	1.1	1.2	104	50-150		06/22/2022 13:34
13C3 HFPO-DA	1.1	1.0	89	50-150		06/22/2022 13:34
d3-N-MeFOSA	1.1	0.37	32	10-150		06/22/2022 13:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB23-1	Total Amount Extracted	5.12g
Lab Sample ID	10610381006	Percent Moisture	14.0463%
Lab File ID	B220622B_011	Dry Weight Extracted	4.41g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:42	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.81	17		06/22/2022 13:34
13C4 PFOA	N/A	N/A	7.18	7.17	21		06/22/2022 13:34
13C2 PFDA	N/A	N/A	8.54	8.54	22		06/22/2022 13:34
13C4 PFOS	N/A	N/A	9.01	9.01	50		06/22/2022 13:34

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.38	27		06/22/2022 13:34
13C5 PFPeA	N/A	N/A	5.13	5.16	19		06/22/2022 13:34
13C3 PFBS	N/A	N/A	6.08	6.13	92		06/22/2022 13:34
13C2 4:2FTS	N/A	N/A	5.54	5.52	39	R	06/22/2022 13:34
13C5 PFHxA	N/A	N/A	5.82	5.84	13		06/22/2022 13:34
13C4 PFHpA	N/A	N/A	6.50	6.49	17		06/22/2022 13:34
13C3 PFHxS	N/A	N/A	7.60	7.59	11		06/22/2022 13:34
13C2 6:2FTS	N/A	N/A	6.83	6.82	76	R	06/22/2022 13:34
13C8 PFOA	N/A	N/A	7.18	7.17	31		06/22/2022 13:34
13C9 PFNA	N/A	N/A	7.86	7.85	16		06/22/2022 13:34
13C8 PFOS	N/A	N/A	9.01	9.01	53		06/22/2022 13:34
13C2 8:2FTS	N/A	N/A	8.16	8.15	64	R	06/22/2022 13:34
13C6 PFDA	N/A	N/A	8.54	8.54	21		06/22/2022 13:34
d3-MeFOSAA	N/A	N/A	8.41	8.40	13	R	06/22/2022 13:34
13C8 PFOSA	N/A	N/A	10.79	10.77	30		06/22/2022 13:34
d5-EtFOSAA	N/A	N/A	8.71	8.71	18	R	06/22/2022 13:34
13C7 PFUdA	N/A	N/A	9.22	9.22	26		06/22/2022 13:34
13C2 PFDoA	N/A	N/A	9.89	9.90	84		06/22/2022 13:34
13C2 PFTeDA	N/A	N/A	11.22	11.21	13		06/22/2022 13:34
13C3 HFPO-DA	N/A	N/A	6.10	6.13	14		06/22/2022 13:34
d3-N-MeFOSA	N/A	N/A	12.68	12.66	43		06/22/2022 13:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB23-1	Total Amount Extracted	5.12g
Lab Sample ID	10610381006	Percent Moisture	14.0463%
Lab File ID	B220622B_011	Dry Weight Extracted	4.41g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:42	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.33	ND		06/22/2022 13:34
PFPeA	N/A	N/A	5.13	5.17	ND		06/22/2022 13:34
HFPO-DA	0.00	0.30	0.00	6.10	ND		06/22/2022 13:34
PFBS	0.71	0.41	6.08	6.07	ND		06/22/2022 13:34
PFHxA	0.06	0.09	5.83	5.82	ND		06/22/2022 13:34
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/22/2022 13:34
PFPeS	0.26	0.45	6.87	6.86	ND		06/22/2022 13:34
PFHpA	0.29	0.33	6.51	6.50	ND		06/22/2022 13:34
DONA	0.00	0.56	0.00	6.75	ND		06/22/2022 13:34
PFHxS	0.42	0.38	7.61	7.60	26		06/22/2022 13:34
PFOA	0.39	0.38	7.19	7.18	ND		06/22/2022 13:34
6:2 FTS	1.40	0.83	6.83	6.82	ND		06/22/2022 13:34
PFHpS	0.42	0.44	8.32	8.32	ND		06/22/2022 13:34
PFNA	0.12	0.13	7.87	7.86	ND		06/22/2022 13:34
PFOSAm	N/A	N/A	10.79	10.78	ND		06/22/2022 13:34
PFOS	0.37	0.40	9.02	9.03	26		06/22/2022 13:34
MeFOSA	0.00	0.52	0.00	12.69	ND		06/22/2022 13:34
PFDA	0.15	0.15	8.55	8.54	ND		06/22/2022 13:34
8:2 FTS	1.70	0.99	8.16	8.15	ND		06/22/2022 13:34
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 13:34
PFNS	0.02	0.47	9.67	9.71	ND		06/22/2022 13:34
PFUnDA	0.13	0.14	9.22	9.22	ND		06/22/2022 13:34
NMeFOSAA	0.00	0.93	0.00	8.41	ND		06/22/2022 13:34
NEtFOSAA	0.00	0.78	0.00	8.72	ND		06/22/2022 13:34
PFDS	0.00	0.33	0.00	10.37	ND		06/22/2022 13:34
PFDOA	0.15	0.17	9.90	9.90	ND		06/22/2022 13:34
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 13:34
PFTDA	0.15	0.15	10.57	10.57	ND		06/22/2022 13:34
PFTDA	0.25	0.24	11.23	11.21	ND		06/22/2022 13:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB30-1
 Lab Sample ID 10610381007
 Lab File ID B220622B_012
 Matrix Soil
 Collected 05/26/2022 13:06
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.03g
 Percent Moisture 5.3179%
 Dry Weight Extracted 4.77g
 Ical ID 220621B02
 CCal File B220622B_002
 Ending CCal File B220622B_014
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.025	1	375-22-4		06/22/2022 13:54
PFPeA	0.16	0.10	0.10	0.028	1	2706-90-3		06/22/2022 13:54
HFPO-DA	ND	0.10	0.10	0.031	1	13252-13-6		06/22/2022 13:54
PFBS	ND	0.093	0.093	0.023	1	375-73-5		06/22/2022 13:54
PFHxA	0.21	0.10	0.10	0.031	1	307-24-4		06/22/2022 13:54
4:2 FTS	ND	0.098	0.098	0.033	1	757124-72-4		06/22/2022 13:54
PFPeS	0.18	0.099	0.099	0.020	1	2706-91-4		06/22/2022 13:54
PFHpA	0.14	0.10	0.10	0.024	1	375-85-9		06/22/2022 13:54
DONA	ND	0.099	0.099	0.040	1	919005-14-4		06/22/2022 13:54
PFHxS	2.0	0.095	0.095	0.023	1	355-46-4		06/22/2022 13:54
PFOA	0.55	0.10	0.10	0.024	1	335-67-1		06/22/2022 13:54
6:2 FTS	ND	0.100	0.100	0.034	1	27619-97-2		06/22/2022 13:54
PFHpS	0.13	0.100	0.100	0.026	1	375-92-8		06/22/2022 13:54
PFNA	0.35	0.10	0.10	0.030	1	375-95-1		06/22/2022 13:54
PFOSAm	ND	0.10	0.10	0.025	1	754-91-6		06/22/2022 13:54
PFOS	18 D	0.49	0.49	0.15	5	1763-23-1		06/24/2022 12:45
MeFOSA	ND	0.10	0.10	0.026	1	31506-32-8		06/22/2022 13:54
PFDA	0.25	0.10	0.10	0.023	1	335-76-2		06/22/2022 13:54
8:2 FTS	0.45	0.10	0.10	0.027	1	39108-34-4		06/22/2022 13:54
9-CI-PF3ON	ND	0.098	0.098	0.015	1	756426-58-1		06/22/2022 13:54
PFNS	0.22 I	0.10	0.10	0.019	1	68259-12-1		06/22/2022 13:54
PFUnDA	0.17	0.10	0.10	0.029	1	2058-94-8		06/22/2022 13:54
NMeFOSAA	ND	0.10	0.10	0.024	1	2355-31-9		06/22/2022 13:54
NEtFOSAA	ND	0.10	0.10	0.026	1	2991-50-6		06/22/2022 13:54
PFDS	ND	0.10	0.10	0.026	1	335-77-3		06/22/2022 13:54
PFDOA	ND	0.10	0.10	0.028	1	307-55-1		06/22/2022 13:54
11-CI-PF3OUdS	ND	0.099	0.099	0.017	1	763051-92-9		06/22/2022 13:54
PFTTrDA	ND	0.10	0.10	0.022	1	72629-94-8		06/22/2022 13:54
PFTDA	ND	0.10	0.10	0.034	1	376-06-7		06/22/2022 13:54

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB30-1	Total Amount Extracted	5.03g
Lab Sample ID	10610381007	Percent Moisture	5.3179%
Lab File ID	B220622B_012	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:06	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	0.71	68	50-150		06/22/2022 13:54
13C4 PFOA	1.0	0.72	69	50-150		06/22/2022 13:54
13C2 PFDA	1.0	0.69	66	50-150		06/22/2022 13:54
13C4 PFOS	1.0	1.1	105	50-150		06/22/2022 13:54

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.67	64	50-150		06/22/2022 13:54
13C5 PFPeA	1.0	0.63	60	50-150		06/22/2022 13:54
13C3 PFBS	0.97	0.92	95	50-150		06/22/2022 13:54
13C2 4:2FTS	0.98	3.4	351	50-150	R	06/22/2022 13:54
13C5 PFHxA	1.0	0.64	61	50-150		06/22/2022 13:54
13C4 PFHpA	1.0	0.68	64	50-150		06/22/2022 13:54
13C3 PFHxS	0.99	0.87	88	50-150		06/22/2022 13:54
13C2 6:2FTS	1.00	6.5	651	50-150	R	06/22/2022 13:54
13C8 PFOA	1.0	0.71	67	50-150		06/22/2022 13:54
13C9 PFNA	1.0	0.71	68	50-150		06/22/2022 13:54
13C8 PFOS	1.0	1.2	124	50-150	D	06/24/2022 12:45
13C2 8:2FTS	1.0	3.8	381	50-150	R	06/22/2022 13:54
13C6 PFDA	1.0	0.62	59	50-150		06/22/2022 13:54
d3-MeFOSAA	1.0	1.0	98	50-150		06/22/2022 13:54
13C8 PFOSA	1.0	0.56	54	50-150		06/22/2022 13:54
d5-EtFOSAA	1.0	1.0	97	50-150		06/22/2022 13:54
13C7 PFUdA	1.0	0.65	62	50-150		06/22/2022 13:54
13C2 PFDoA	1.0	0.47	45	50-150	R	06/22/2022 13:54
13C2 PFTeDA	1.0	0.14	14	50-150	R	06/22/2022 13:54
13C3 HFPO-DA	1.0	0.59	56	50-150		06/22/2022 13:54
d3-N-MeFOSA	1.0	0.32	31	10-150		06/22/2022 13:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB30-1	Total Amount Extracted	5.03g
Lab Sample ID	10610381007	Percent Moisture	5.3179%
Lab File ID	B220622B_012	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:06	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.80	5.81	10		06/22/2022 13:54
13C4 PFOA	N/A	N/A	7.17	7.17	11		06/22/2022 13:54
13C2 PFDA	N/A	N/A	8.55	8.54	81		06/22/2022 13:54
13C4 PFOS	N/A	N/A	9.02	9.01	24		06/22/2022 13:54

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.28	4.38	19		06/22/2022 13:54
13C5 PFPeA	N/A	N/A	5.10	5.16	14		06/22/2022 13:54
13C3 PFBS	N/A	N/A	6.05	6.13	49		06/22/2022 13:54
13C2 4:2FTS	N/A	N/A	5.51	5.52	34	R	06/22/2022 13:54
13C5 PFHxA	N/A	N/A	5.80	5.84	90		06/22/2022 13:54
13C4 PFHpA	N/A	N/A	6.49	6.49	87		06/22/2022 13:54
13C3 PFHxS	N/A	N/A	7.59	7.59	48		06/22/2022 13:54
13C2 6:2FTS	N/A	N/A	6.82	6.82	43	R	06/22/2022 13:54
13C8 PFOA	N/A	N/A	7.17	7.17	11		06/22/2022 13:54
13C9 PFNA	N/A	N/A	7.86	7.85	85		06/22/2022 13:54
13C8 PFOS	N/A	N/A	9.05	9.01	24	D	06/24/2022 12:45
13C2 8:2FTS	N/A	N/A	8.16	8.15	26	R	06/22/2022 13:54
13C6 PFDA	N/A	N/A	8.55	8.54	77		06/22/2022 13:54
d3-MeFOSAA	N/A	N/A	8.42	8.40	68		06/22/2022 13:54
13C8 PFOSA	N/A	N/A	10.81	10.77	16		06/22/2022 13:54
d5-EtFOSAA	N/A	N/A	8.72	8.71	62		06/22/2022 13:54
13C7 PFUdA	N/A	N/A	9.22	9.22	74		06/22/2022 13:54
13C2 PFDaA	N/A	N/A	9.90	9.90	51	R	06/22/2022 13:54
13C2 PFTeDA	N/A	N/A	11.20	11.21	32	R	06/22/2022 13:54
13C3 HFPO-DA	N/A	N/A	6.08	6.13	11		06/22/2022 13:54
d3-N-MeFOSA	N/A	N/A	12.69	12.66	25		06/22/2022 13:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB30-1	Total Amount Extracted	5.03g
Lab Sample ID	10610381007	Percent Moisture	5.3179%
Lab File ID	B220622B_012	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:06	CCal File	B220622B_002
Received	05/27/2022 17:19	Ending CCal File	B220622B_014
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.28	4.33	ND		06/22/2022 13:54
PFPeA	N/A	N/A	5.10	5.17	52		06/22/2022 13:54
HFPO-DA	0.49	0.30	6.10	6.10	ND		06/22/2022 13:54
PFBS	0.44	0.41	6.06	6.07	ND		06/22/2022 13:54
PFHxA	0.07	0.09	5.81	5.82	67		06/22/2022 13:54
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/22/2022 13:54
PFPeS	0.29	0.45	6.85	6.86	10		06/22/2022 13:54
PFHpA	0.41	0.33	6.50	6.50	22		06/22/2022 13:54
DONA	0.00	0.56	0.00	6.75	ND		06/22/2022 13:54
PFHxS	0.32	0.38	7.60	7.60	44		06/22/2022 13:54
PFOA	0.35	0.38	7.18	7.18	12		06/22/2022 13:54
6:2 FTS	0.93	0.83	6.82	6.82	ND		06/22/2022 13:54
PFHpS	0.33	0.44	8.33	8.32	77		06/22/2022 13:54
PFNA	0.13	0.13	7.87	7.86	14		06/22/2022 13:54
PFOSAm	N/A	N/A	10.81	10.78	ND		06/22/2022 13:54
PFOS	0.38	0.45	9.06	9.03	55	D	06/24/2022 12:45
MeFOSA	0.00	0.52	0.00	12.69	ND		06/22/2022 13:54
PFDA	0.17	0.15	8.55	8.54	77		06/22/2022 13:54
8:2 FTS	0.88	0.99	8.16	8.15	72		06/22/2022 13:54
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 13:54
PFNS	0.07	0.47	9.69	9.71	71	I	06/22/2022 13:54
PFUnDA	0.11	0.14	9.23	9.22	17		06/22/2022 13:54
NMeFOSAA	0.00	0.93	0.00	8.41	ND		06/22/2022 13:54
NEtFOSAA	0.00	0.78	0.00	8.72	ND		06/22/2022 13:54
PFDS	0.37	0.33	10.37	10.37	ND		06/22/2022 13:54
PFDOA	0.19	0.17	9.90	9.90	ND		06/22/2022 13:54
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 13:54
PFTDA	0.17	0.15	10.56	10.57	ND		06/22/2022 13:54
PFTDA	0.36	0.24	11.21	11.21	ND		06/22/2022 13:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB29-1
 Lab Sample ID 10610381008
 Lab File ID B220627A_010
 Matrix Soil
 Collected 05/26/2022 12:58
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.22g
 Percent Moisture 32.5185%
 Dry Weight Extracted 3.52g
 Ical ID 220621B02
 CCal File B220627A_005
 Ending CCal File B220627A_012
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.19	0.14	0.14	0.034	1	375-22-4		06/27/2022 11:37
PFPeA	0.38	0.14	0.14	0.037	1	2706-90-3		06/27/2022 11:37
HFPO-DA	ND	0.14	0.14	0.042	1	13252-13-6		06/27/2022 11:37
PFBS	0.15	0.13	0.13	0.031	1	375-73-5		06/27/2022 11:37
PFHxA	0.94	0.14	0.14	0.043	1	307-24-4		06/27/2022 11:37
4:2 FTS	ND	0.13	0.13	0.045	1	757124-72-4		06/27/2022 11:37
PFPeS	0.46	0.13	0.13	0.026	1	2706-91-4		06/27/2022 11:37
PFHpA	0.25	0.14	0.14	0.032	1	375-85-9		06/27/2022 11:37
DONA	ND	0.13	0.13	0.055	1	919005-14-4		06/27/2022 11:37
PFHxS	12	0.13	0.13	0.032	1	355-46-4		06/27/2022 11:37
PFOA	0.48	0.14	0.14	0.032	1	335-67-1		06/27/2022 11:37
6:2 FTS	ND	0.13	0.13	0.045	1	27619-97-2		06/27/2022 11:37
PFHpS	0.51	0.13	0.13	0.036	1	375-92-8		06/27/2022 11:37
PFNA	ND	0.14	0.14	0.041	1	375-95-1		06/27/2022 11:37
PFOSAm	ND	0.14	0.14	0.033	1	754-91-6		06/27/2022 11:37
PFOS	42 D	0.66	0.66	0.20	5	1763-23-1		06/24/2022 10:45
MeFOSA	ND	0.14	0.14	0.035	1	31506-32-8		06/27/2022 11:37
PFDA	ND	0.14	0.14	0.031	1	335-76-2		06/27/2022 11:37
8:2 FTS	ND	0.14	0.14	0.037	1	39108-34-4		06/27/2022 11:37
9-CI-PF3ON	ND	0.13	0.13	0.021	1	756426-58-1		06/27/2022 11:37
PFNS	0.35 I	0.14	0.14	0.025	1	68259-12-1		06/27/2022 11:37
PFUnDA	ND	0.14	0.14	0.040	1	2058-94-8		06/27/2022 11:37
NMeFOSAA	ND	0.14	0.14	0.033	1	2355-31-9		06/27/2022 11:37
NEtFOSAA	ND	0.14	0.14	0.035	1	2991-50-6		06/27/2022 11:37
PFDS	ND	0.14	0.14	0.036	1	335-77-3		06/27/2022 11:37
PFDOA	ND	0.14	0.14	0.038	1	307-55-1		06/27/2022 11:37
11-CI-PF3OUdS	ND	0.13	0.13	0.023	1	763051-92-9		06/27/2022 11:37
PFTTrDA	ND	0.14	0.14	0.030	1	72629-94-8		06/27/2022 11:37
PFTDA	ND	0.14	0.14	0.046	1	376-06-7		06/27/2022 11:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB29-1	Total Amount Extracted	5.22g
Lab Sample ID	10610381008	Percent Moisture	32.5185%
Lab File ID	B220627A_010	Dry Weight Extracted	3.52g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:58	CCal File	B220627A_005
Received	05/27/2022 17:19	Ending CCal File	B220627A_012
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.4	1.0	70	50-150		06/27/2022 11:37
13C4 PFOA	1.4	1.00	70	50-150		06/27/2022 11:37
13C2 PFDA	1.4	0.95	67	50-150		06/27/2022 11:37
13C4 PFOS	1.4	1.4	103	50-150		06/27/2022 11:37

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.4	0.87	61	50-150		06/27/2022 11:37
13C5 PFPeA	1.4	0.84	59	50-150		06/27/2022 11:37
13C3 PFBS	1.3	1.3	96	50-150		06/27/2022 11:37
13C2 4:2FTS	1.3	4.2	316	50-150	R	06/27/2022 11:37
13C5 PFHxA	1.4	0.87	61	50-150		06/27/2022 11:37
13C4 PFHpA	1.4	0.94	67	50-150		06/27/2022 11:37
13C3 PFHxS	1.3	1.1	85	50-150		06/27/2022 11:37
13C2 6:2FTS	1.3	4.8	360	50-150	R	06/27/2022 11:37
13C8 PFOA	1.4	0.93	65	50-150		06/27/2022 11:37
13C9 PFNA	1.4	1.1	74	50-150		06/27/2022 11:37
13C8 PFOS	1.4	1.0	74	50-150	D	06/24/2022 10:45
13C2 8:2FTS	1.4	4.4	322	50-150	R	06/27/2022 11:37
13C6 PFDA	1.4	1.1	75	50-150		06/27/2022 11:37
d3-MeFOSAA	1.4	1.2	85	50-150		06/27/2022 11:37
13C8 PFOSA	1.4	0.81	57	50-150		06/27/2022 11:37
d5-EtFOSAA	1.4	1.1	77	50-150		06/27/2022 11:37
13C7 PFUdA	1.4	1.0	72	50-150		06/27/2022 11:37
13C2 PFDoA	1.4	0.88	62	50-150		06/27/2022 11:37
13C2 PFTeDA	1.4	0.63	45	50-150	R	06/27/2022 11:37
13C3 HFPO-DA	1.4	0.75	53	50-150		06/27/2022 11:37
d3-N-MeFOSA	1.4	0.28	20	10-150		06/27/2022 11:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB29-1	Total Amount Extracted	5.22g
Lab Sample ID	10610381008	Percent Moisture	32.5185%
Lab File ID	B220627A_010	Dry Weight Extracted	3.52g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:58	CCal File	B220627A_005
Received	05/27/2022 17:19	Ending CCal File	B220627A_012
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.81	5.81	13		06/27/2022 11:37
13C4 PFOA	N/A	N/A	7.18	7.17	13		06/27/2022 11:37
13C2 PFDA	N/A	N/A	8.55	8.54	12		06/27/2022 11:37
13C4 PFOS	N/A	N/A	9.03	9.01	36		06/27/2022 11:37

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.32	23		06/27/2022 11:37
13C5 PFPeA	N/A	N/A	5.11	5.12	16		06/27/2022 11:37
13C3 PFBS	N/A	N/A	6.07	6.06	51		06/27/2022 11:37
13C2 4:2FTS	N/A	N/A	5.52	5.52	41	R	06/27/2022 11:37
13C5 PFHxA	N/A	N/A	5.81	5.81	11		06/27/2022 11:37
13C4 PFHpA	N/A	N/A	6.50	6.49	11		06/27/2022 11:37
13C3 PFHxS	N/A	N/A	7.61	7.59	67		06/27/2022 11:37
13C2 6:2FTS	N/A	N/A	6.83	6.82	35	R	06/27/2022 11:37
13C8 PFOA	N/A	N/A	7.18	7.17	13		06/27/2022 11:37
13C9 PFNA	N/A	N/A	7.86	7.85	89		06/27/2022 11:37
13C8 PFOS	N/A	N/A	9.05	9.01	33	D	06/24/2022 10:45
13C2 8:2FTS	N/A	N/A	8.16	8.15	32	R	06/27/2022 11:37
13C6 PFDA	N/A	N/A	8.55	8.54	96		06/27/2022 11:37
d3-MeFOSAA	N/A	N/A	8.42	8.40	74		06/27/2022 11:37
13C8 PFOSA	N/A	N/A	10.82	10.77	18		06/27/2022 11:37
d5-EtFOSAA	N/A	N/A	8.72	8.71	87		06/27/2022 11:37
13C7 PFUdA	N/A	N/A	9.23	9.22	72		06/27/2022 11:37
13C2 PFDaA	N/A	N/A	9.91	9.90	46		06/27/2022 11:37
13C2 PFTeDA	N/A	N/A	11.24	11.21	73	R	06/27/2022 11:37
13C3 HFPO-DA	N/A	N/A	6.09	6.09	11		06/27/2022 11:37
d3-N-MeFOSA	N/A	N/A	12.73	12.66	23		06/27/2022 11:37

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB29-1	Total Amount Extracted	5.22g
Lab Sample ID	10610381008	Percent Moisture	32.5185%
Lab File ID	B220627A_010	Dry Weight Extracted	3.52g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 12:58	CCal File	B220627A_005
Received	05/27/2022 17:19	Ending CCal File	B220627A_012
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.33	52		06/27/2022 11:37
PFPeA	N/A	N/A	5.12	5.12	96		06/27/2022 11:37
HFPO-DA	0.00	0.27	0.00	6.10	ND		06/27/2022 11:37
PFBS	0.43	0.43	6.08	6.07	16		06/27/2022 11:37
PFHxA	0.08	0.08	5.82	5.82	15		06/27/2022 11:37
4:2 FTS	0.00	0.87	0.00	5.53	ND		06/27/2022 11:37
PFPeS	0.38	0.41	6.87	6.86	17		06/27/2022 11:37
PFHpA	0.29	0.32	6.51	6.50	30		06/27/2022 11:37
DONA	0.00	0.65	0.00	6.75	ND		06/27/2022 11:37
PFHxS	0.36	0.36	7.62	7.60	12		06/27/2022 11:37
PFOA	0.35	0.39	7.19	7.18	69		06/27/2022 11:37
6:2 FTS	0.82	0.84	6.83	6.87	ND		06/27/2022 11:37
PFHpS	0.34	0.43	8.34	8.32	72		06/27/2022 11:37
PFNA	0.11	0.15	7.87	7.86	ND		06/27/2022 11:37
PFOSAm	N/A	N/A	10.83	10.78	ND		06/27/2022 11:37
PFOS	0.36	0.45	9.06	9.03	42	D	06/24/2022 10:45
MeFOSA	0.00	0.54	0.00	12.69	ND		06/27/2022 11:37
PFDA	0.17	0.19	8.56	8.54	ND		06/27/2022 11:37
8:2 FTS	1.40	0.78	8.17	8.15	ND		06/27/2022 11:37
9-Cl-PF3ON	0.00	0.05	0.00	9.52	ND		06/27/2022 11:37
PFNS	0.17	0.46	9.71	9.71	58	I	06/27/2022 11:37
PFUnDA	0.11	0.13	9.24	9.22	ND		06/27/2022 11:37
NMeFOSAA	0.00	0.85	0.00	8.41	ND		06/27/2022 11:37
NEtFOSAA	0.00	0.62	0.00	8.72	ND		06/27/2022 11:37
PFDS	0.36	0.34	10.40	10.37	ND		06/27/2022 11:37
PFDOA	0.00	0.17	0.00	9.90	ND		06/27/2022 11:37
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/27/2022 11:37
PFTrDA	0.24	0.16	10.58	10.57	ND		06/27/2022 11:37
PFTDA	0.00	0.24	0.00	11.21	ND		06/27/2022 11:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB31-1
 Lab Sample ID 10610381009
 Lab File ID B220622B_019
 Matrix Soil
 Collected 05/26/2022 13:14
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.02g
 Percent Moisture 27.8494%
 Dry Weight Extracted 3.62g
 Ical ID 220621B02
 CCal File B220622B_018
 Ending CCal File B220622B_030
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.24	0.14	0.14	0.033	1	375-22-4		06/22/2022 16:14
PFPeA	0.66	0.14	0.14	0.036	1	2706-90-3		06/22/2022 16:14
HFPO-DA	ND	0.14	0.14	0.041	1	13252-13-6		06/22/2022 16:14
PFBS	ND	0.12	0.12	0.030	1	375-73-5		06/22/2022 16:14
PFHxA	0.81	0.14	0.14	0.041	1	307-24-4		06/22/2022 16:14
4:2 FTS	ND	0.13	0.13	0.044	1	757124-72-4		06/22/2022 16:14
PFPeS	0.15	0.13	0.13	0.026	1	2706-91-4		06/22/2022 16:14
PFHpA	1.1	0.14	0.14	0.031	1	375-85-9		06/22/2022 16:14
DONA	ND	0.13	0.13	0.053	1	919005-14-4		06/22/2022 16:14
PFHxS	6.2	0.13	0.13	0.031	1	355-46-4		06/22/2022 16:14
PFOA	0.59	0.14	0.14	0.031	1	335-67-1		06/22/2022 16:14
6:2 FTS	ND	0.13	0.13	0.044	1	27619-97-2		06/22/2022 16:14
PFHpS	0.19	0.13	0.13	0.034	1	375-92-8		06/22/2022 16:14
PFNA	0.25	0.14	0.14	0.039	1	375-95-1		06/22/2022 16:14
PFOSAm	ND	0.14	0.14	0.032	1	754-91-6		06/22/2022 16:14
PFOS	4.4	0.13	0.13	0.038	1	1763-23-1		06/22/2022 16:14
MeFOSA	ND	0.14	0.14	0.034	1	31506-32-8		06/22/2022 16:14
PFDA	ND	0.14	0.14	0.030	1	335-76-2		06/22/2022 16:14
8:2 FTS	ND	0.13	0.13	0.036	1	39108-34-4		06/22/2022 16:14
9-CI-PF3ON	ND	0.13	0.13	0.020	1	756426-58-1		06/22/2022 16:14
PFNS	ND	0.13	0.13	0.025	1	68259-12-1		06/22/2022 16:14
PFUnDA	ND	0.14	0.14	0.039	1	2058-94-8		06/22/2022 16:14
NMeFOSAA	ND	0.14	0.14	0.032	1	2355-31-9		06/22/2022 16:14
NEtFOSAA	ND	0.14	0.14	0.034	1	2991-50-6		06/22/2022 16:14
PFDS	ND	0.13	0.13	0.035	1	335-77-3		06/22/2022 16:14
PFDOA	ND	0.14	0.14	0.037	1	307-55-1		06/22/2022 16:14
11-CI-PF3OUdS	ND	0.13	0.13	0.022	1	763051-92-9		06/22/2022 16:14
PFTTrDA	ND	0.14	0.14	0.030	1	72629-94-8		06/22/2022 16:14
PFTDA	ND	0.14	0.14	0.044	1	376-06-7		06/22/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB31-1	Total Amount Extracted	5.02g
Lab Sample ID	10610381009	Percent Moisture	27.8494%
Lab File ID	B220622B_019	Dry Weight Extracted	3.62g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:14	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.4	1.0	75	50-150		06/22/2022 16:14
13C4 PFOA	1.4	1.1	81	50-150		06/22/2022 16:14
13C2 PFDA	1.4	1.1	80	50-150		06/22/2022 16:14
13C4 PFOS	1.3	1.6	120	50-150		06/22/2022 16:14

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.4	0.94	68	50-150		06/22/2022 16:14
13C5 PFPeA	1.4	0.93	67	50-150		06/22/2022 16:14
13C3 PFBS	1.3	1.3	101	50-150		06/22/2022 16:14
13C2 4:2FTS	1.3	3.6	277	50-150	R	06/22/2022 16:14
13C5 PFHxA	1.4	0.91	66	50-150		06/22/2022 16:14
13C4 PFHpA	1.4	1.0	73	50-150		06/22/2022 16:14
13C3 PFHxS	1.3	1.2	94	50-150		06/22/2022 16:14
13C2 6:2FTS	1.3	4.5	345	50-150	R	06/22/2022 16:14
13C8 PFOA	1.4	1.0	73	50-150		06/22/2022 16:14
13C9 PFNA	1.4	0.99	72	50-150		06/22/2022 16:14
13C8 PFOS	1.3	1.3	97	50-150		06/22/2022 16:14
13C2 8:2FTS	1.3	3.5	266	50-150	R	06/22/2022 16:14
13C6 PFDA	1.4	0.95	69	50-150		06/22/2022 16:14
d3-MeFOSAA	1.4	1.3	96	50-150		06/22/2022 16:14
13C8 PFOSA	1.4	0.81	59	50-150		06/22/2022 16:14
d5-EtFOSAA	1.4	1.2	88	50-150		06/22/2022 16:14
13C7 PFUdA	1.4	0.97	70	50-150		06/22/2022 16:14
13C2 PFDoA	1.4	0.93	67	50-150		06/22/2022 16:14
13C2 PFTeDA	1.4	0.91	66	50-150		06/22/2022 16:14
13C3 HFPO-DA	1.4	0.90	65	50-150		06/22/2022 16:14
d3-N-MeFOSA	1.4	0.48	35	10-150		06/22/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB31-1	Total Amount Extracted	5.02g
Lab Sample ID	10610381009	Percent Moisture	27.8494%
Lab File ID	B220622B_019	Dry Weight Extracted	3.62g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:14	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.81	15		06/22/2022 16:14
13C4 PFOA	N/A	N/A	7.17	7.17	15		06/22/2022 16:14
13C2 PFDA	N/A	N/A	8.52	8.54	13		06/22/2022 16:14
13C4 PFOS	N/A	N/A	9.00	9.01	47		06/22/2022 16:14

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.38	21		06/22/2022 16:14
13C5 PFPeA	N/A	N/A	5.14	5.16	17		06/22/2022 16:14
13C3 PFBS	N/A	N/A	6.08	6.13	75		06/22/2022 16:14
13C2 4:2FTS	N/A	N/A	5.55	5.52	43	R	06/22/2022 16:14
13C5 PFHxA	N/A	N/A	5.83	5.84	12		06/22/2022 16:14
13C4 PFHpA	N/A	N/A	6.50	6.49	12		06/22/2022 16:14
13C3 PFHxS	N/A	N/A	7.59	7.59	93		06/22/2022 16:14
13C2 6:2FTS	N/A	N/A	6.83	6.82	45	R	06/22/2022 16:14
13C8 PFOA	N/A	N/A	7.17	7.17	15		06/22/2022 16:14
13C9 PFNA	N/A	N/A	7.84	7.85	93		06/22/2022 16:14
13C8 PFOS	N/A	N/A	9.01	9.01	33		06/22/2022 16:14
13C2 8:2FTS	N/A	N/A	8.13	8.15	41	R	06/22/2022 16:14
13C6 PFDA	N/A	N/A	8.52	8.54	10		06/22/2022 16:14
d3-MeFOSAA	N/A	N/A	8.39	8.40	10		06/22/2022 16:14
13C8 PFOSA	N/A	N/A	10.81	10.77	17		06/22/2022 16:14
d5-EtFOSAA	N/A	N/A	8.70	8.71	86		06/22/2022 16:14
13C7 PFUdA	N/A	N/A	9.20	9.22	71		06/22/2022 16:14
13C2 PFDaA	N/A	N/A	9.89	9.90	38		06/22/2022 16:14
13C2 PFTeDA	N/A	N/A	11.20	11.21	11		06/22/2022 16:14
13C3 HFPO-DA	N/A	N/A	6.10	6.13	11		06/22/2022 16:14
d3-N-MeFOSA	N/A	N/A	12.69	12.66	36		06/22/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB31-1	Total Amount Extracted	5.02g
Lab Sample ID	10610381009	Percent Moisture	27.8494%
Lab File ID	B220622B_019	Dry Weight Extracted	3.62g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:14	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.33	10		06/22/2022 16:14
PFPeA	N/A	N/A	5.14	5.17	18		06/22/2022 16:14
HFPO-DA	0.56	0.29	6.12	6.10	ND		06/22/2022 16:14
PFBS	0.59	0.45	6.09	6.07	ND		06/22/2022 16:14
PFHxA	0.07	0.07	5.84	5.82	15		06/22/2022 16:14
4:2 FTS	0.00	0.91	0.00	5.53	ND		06/22/2022 16:14
PFPeS	0.40	0.43	6.86	6.86	14		06/22/2022 16:14
PFHpA	0.29	0.31	6.51	6.50	23		06/22/2022 16:14
DONA	0.00	0.54	0.00	6.75	ND		06/22/2022 16:14
PFHxS	0.34	0.37	7.59	7.60	11		06/22/2022 16:14
PFOA	0.39	0.40	7.18	7.18	12		06/22/2022 16:14
6:2 FTS	0.68	0.95	6.83	6.82	ND		06/22/2022 16:14
PFHpS	0.35	0.38	8.31	8.32	45		06/22/2022 16:14
PFNA	0.12	0.13	7.85	7.86	14		06/22/2022 16:14
PFOSAm	N/A	N/A	10.82	10.78	ND		06/22/2022 16:14
PFOS	0.31	0.43	8.98	9.03	18		06/22/2022 16:14
MeFOSA	0.00	0.50	0.00	12.69	ND		06/22/2022 16:14
PFDA	0.14	0.18	8.53	8.54	ND		06/22/2022 16:14
8:2 FTS	2.30	0.86	8.15	8.15	ND		06/22/2022 16:14
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 16:14
PFNS	0.00	0.51	0.00	9.71	ND		06/22/2022 16:14
PFUnDA	0.08	0.13	9.21	9.22	ND		06/22/2022 16:14
NMeFOSAA	0.00	0.90	0.00	8.41	ND		06/22/2022 16:14
NEtFOSAA	0.00	0.61	0.00	8.72	ND		06/22/2022 16:14
PFDS	0.00	0.35	0.00	10.37	ND		06/22/2022 16:14
PFDOA	0.00	0.17	0.00	9.90	ND		06/22/2022 16:14
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 16:14
PFTrDA	0.09	0.17	10.57	10.57	ND		06/22/2022 16:14
PFTDA	0.26	0.24	11.21	11.21	ND		06/22/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB10-1
 Lab Sample ID 10610381010
 Lab File ID B220622B_020
 Matrix Soil
 Collected 05/26/2022 13:49
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.13g
 Percent Moisture 54.4687%
 Dry Weight Extracted 2.34g
 Ical ID 220621B02
 CCal File B220622B_018
 Ending CCal File B220622B_030
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.99	0.21	0.21	0.051	1	375-22-4		06/22/2022 16:34
PFPeA	3.7	0.21	0.21	0.056	1	2706-90-3		06/22/2022 16:34
HFPO-DA	ND	0.21	0.21	0.064	1	13252-13-6		06/22/2022 16:34
PFBS	0.94	0.19	0.19	0.047	1	375-73-5		06/22/2022 16:34
PFHxA	5.4	0.21	0.21	0.064	1	307-24-4		06/22/2022 16:34
4:2 FTS	ND	0.20	0.20	0.068	1	757124-72-4		06/22/2022 16:34
PFPeS	2.6	0.20	0.20	0.040	1	2706-91-4		06/22/2022 16:34
PFHpA	1.8	0.21	0.21	0.048	1	375-85-9		06/22/2022 16:34
DONA	ND	0.20	0.20	0.082	1	919005-14-4		06/22/2022 16:34
PFHxS	37 D	1.9	1.9	0.48	10	355-46-4		06/24/2022 11:05
PFOA	2.4	0.21	0.21	0.048	1	335-67-1		06/22/2022 16:34
6:2 FTS	ND	0.20	0.20	0.069	1	27619-97-2		06/22/2022 16:34
PFHpS	0.99	0.20	0.20	0.054	1	375-92-8		06/22/2022 16:34
PFNA	0.50	0.21	0.21	0.061	1	375-95-1		06/22/2022 16:34
PFOSAm	ND	0.21	0.21	0.050	1	754-91-6		06/22/2022 16:34
PFOS	48 D	2.0	2.0	0.60	10	1763-23-1		06/24/2022 11:05
MeFOSA	ND	0.21	0.21	0.053	1	31506-32-8		06/22/2022 16:34
PFDA	ND	0.21	0.21	0.046	1	335-76-2		06/22/2022 16:34
8:2 FTS	ND	0.21	0.21	0.055	1	39108-34-4		06/22/2022 16:34
9-CI-PF3ON	ND	0.20	0.20	0.031	1	756426-58-1		06/22/2022 16:34
PFNS	0.80 I	0.21	0.21	0.038	1	68259-12-1		06/22/2022 16:34
PFUnDA	ND	0.21	0.21	0.060	1	2058-94-8		06/22/2022 16:34
NMeFOSAA	ND	0.21	0.21	0.050	1	2355-31-9		06/22/2022 16:34
NEtFOSAA	ND	0.21	0.21	0.053	1	2991-50-6		06/22/2022 16:34
PFDS	ND	0.21	0.21	0.054	1	335-77-3		06/22/2022 16:34
PFDOA	ND	0.21	0.21	0.057	1	307-55-1		06/22/2022 16:34
11-CI-PF3OUdS	ND	0.20	0.20	0.035	1	763051-92-9		06/22/2022 16:34
PFTTrDA	ND	0.21	0.21	0.046	1	72629-94-8		06/22/2022 16:34
PFTDA	ND	0.21	0.21	0.069	1	376-06-7		06/22/2022 16:34

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB10-1	Total Amount Extracted	5.13g
Lab Sample ID	10610381010	Percent Moisture	54.4687%
Lab File ID	B220622B_020	Dry Weight Extracted	2.34g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:49	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	2.1	0.82	38	50-150	R	06/22/2022 16:34
13C4 PFOA	2.1	0.97	45	50-150	R	06/22/2022 16:34
13C2 PFDA	2.1	0.96	45	50-150	R	06/22/2022 16:34
13C4 PFOS	2.0	1.7	82	50-150		06/22/2022 16:34

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	2.1	0.49	23	50-150	R	06/22/2022 16:34
13C5 PFPeA	2.1	0.53	25	50-150	R	06/22/2022 16:34
13C3 PFBS	2.0	1.1	56	50-150		06/22/2022 16:34
13C2 4:2FTS	2.0	2.2	109	50-150		06/22/2022 16:34
13C5 PFHxA	2.1	0.56	26	50-150	R	06/22/2022 16:34
13C4 PFHpA	2.1	0.69	32	50-150	R	06/22/2022 16:34
13C3 PFHxS	2.0	2.2	110	50-150	D	06/24/2022 11:05
13C2 6:2FTS	2.0	3.1	153	50-150	R	06/22/2022 16:34
13C8 PFOA	2.1	0.67	32	50-150	R	06/22/2022 16:34
13C9 PFNA	2.1	0.63	30	50-150	R	06/22/2022 16:34
13C8 PFOS	2.0	2.2	106	50-150	D	06/24/2022 11:05
13C2 8:2FTS	2.1	2.4	117	50-150		06/22/2022 16:34
13C6 PFDA	2.1	0.62	29	50-150	R	06/22/2022 16:34
d3-MeFOSAA	2.1	0.79	37	50-150	R	06/22/2022 16:34
13C8 PFOSA	2.1	0.41	19	50-150	R	06/22/2022 16:34
d5-EtFOSAA	2.1	0.78	37	50-150	R	06/22/2022 16:34
13C7 PFUdA	2.1	0.61	28	50-150	R	06/22/2022 16:34
13C2 PFDoA	2.1	0.57	27	50-150	R	06/22/2022 16:34
13C2 PFTeDA	2.1	0.54	25	50-150	R	06/22/2022 16:34
13C3 HFPO-DA	2.1	0.56	26	50-150	R	06/22/2022 16:34
d3-N-MeFOSA	2.1	0.33	15	10-150		06/22/2022 16:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB10-1	Total Amount Extracted	5.13g
Lab Sample ID	10610381010	Percent Moisture	54.4687%
Lab File ID	B220622B_020	Dry Weight Extracted	2.34g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:49	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.80	5.81	93	R	06/22/2022 16:34
13C4 PFOA	N/A	N/A	7.17	7.17	10	R	06/22/2022 16:34
13C2 PFDA	N/A	N/A	8.51	8.54	73	R	06/22/2022 16:34
13C4 PFOS	N/A	N/A	8.99	9.01	25		06/22/2022 16:34

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.38	15	R	06/22/2022 16:34
13C5 PFPeA	N/A	N/A	5.12	5.16	12	R	06/22/2022 16:34
13C3 PFBS	N/A	N/A	6.06	6.13	56		06/22/2022 16:34
13C2 4:2FTS	N/A	N/A	5.52	5.52	27		06/22/2022 16:34
13C5 PFHxA	N/A	N/A	5.81	5.84	60	R	06/22/2022 16:34
13C4 PFHpA	N/A	N/A	6.49	6.49	62	R	06/22/2022 16:34
13C3 PFHxS	N/A	N/A	7.60	7.59	48	D	06/24/2022 11:05
13C2 6:2FTS	N/A	N/A	6.83	6.82	23	R	06/22/2022 16:34
13C8 PFOA	N/A	N/A	7.17	7.17	10	R	06/22/2022 16:34
13C9 PFNA	N/A	N/A	7.84	7.85	43	R	06/22/2022 16:34
13C8 PFOS	N/A	N/A	9.05	9.01	19	D	06/24/2022 11:05
13C2 8:2FTS	N/A	N/A	8.13	8.15	17		06/22/2022 16:34
13C6 PFDA	N/A	N/A	8.51	8.54	47	R	06/22/2022 16:34
d3-MeFOSAA	N/A	N/A	8.38	8.40	38	R	06/22/2022 16:34
13C8 PFOSA	N/A	N/A	10.80	10.77	14	R	06/22/2022 16:34
d5-EtFOSAA	N/A	N/A	8.69	8.71	42	R	06/22/2022 16:34
13C7 PFUdA	N/A	N/A	9.19	9.22	45	R	06/22/2022 16:34
13C2 PFDaA	N/A	N/A	9.87	9.90	42	R	06/22/2022 16:34
13C2 PFTeDA	N/A	N/A	11.17	11.21	52	R	06/22/2022 16:34
13C3 HFPO-DA	N/A	N/A	6.09	6.13	10	R	06/22/2022 16:34
d3-N-MeFOSA	N/A	N/A	12.69	12.66	15		06/22/2022 16:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB10-1	Total Amount Extracted	5.13g
Lab Sample ID	10610381010	Percent Moisture	54.4687%
Lab File ID	B220622B_020	Dry Weight Extracted	2.34g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:49	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.33	57		06/22/2022 16:34
PFPeA	N/A	N/A	5.13	5.17	14		06/22/2022 16:34
HFPO-DA	0.00	0.29	0.00	6.10	ND		06/22/2022 16:34
PFBS	0.46	0.45	6.07	6.07	27		06/22/2022 16:34
PFHxA	0.07	0.07	5.81	5.82	15		06/22/2022 16:34
4:2 FTS	0.00	0.91	0.00	5.53	ND		06/22/2022 16:34
PFPeS	0.37	0.43	6.86	6.86	25		06/22/2022 16:34
PFHpA	0.30	0.31	6.50	6.50	24		06/22/2022 16:34
DONA	0.00	0.54	0.00	6.75	ND		06/22/2022 16:34
PFHxS	0.34	0.36	7.61	7.60	13	D	06/24/2022 11:05
PFOA	0.32	0.40	7.18	7.18	10		06/22/2022 16:34
6:2 FTS	1.20	0.95	6.83	6.82	ND		06/22/2022 16:34
PFHpS	0.36	0.38	8.30	8.32	68		06/22/2022 16:34
PFNA	0.12	0.13	7.85	7.86	87		06/22/2022 16:34
PFOSAm	N/A	N/A	10.82	10.78	ND		06/22/2022 16:34
PFOS	0.32	0.45	9.06	9.03	26	D	06/24/2022 11:05
MeFOSA	0.00	0.50	0.00	12.69	ND		06/22/2022 16:34
PFDA	0.14	0.18	8.52	8.54	ND		06/22/2022 16:34
8:2 FTS	0.87	0.86	8.14	8.15	ND		06/22/2022 16:34
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 16:34
PFNS	0.01	0.51	9.64	9.71	88	I	06/22/2022 16:34
PFUnDA	0.14	0.13	9.19	9.22	ND		06/22/2022 16:34
NMeFOSAA	0.00	0.90	0.00	8.41	ND		06/22/2022 16:34
NEtFOSAA	0.00	0.61	0.00	8.72	ND		06/22/2022 16:34
PFDS	0.00	0.35	0.00	10.37	ND		06/22/2022 16:34
PFDOA	0.49	0.17	9.88	9.90	ND		06/22/2022 16:34
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 16:34
PFTrDA	0.00	0.17	0.00	10.57	ND		06/22/2022 16:34
PFTDA	0.00	0.24	0.00	11.21	ND		06/22/2022 16:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB20-1
 Lab Sample ID 10610381011
 Lab File ID B220622B_021
 Matrix Soil
 Collected 05/26/2022 13:21
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.09g
 Percent Moisture 10.8544%
 Dry Weight Extracted 4.53g
 Ical ID 220621B02
 CCal File B220622B_018
 Ending CCal File B220622B_030
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.026	1	375-22-4		06/22/2022 16:54
PFPeA	ND	0.11	0.11	0.029	1	2706-90-3		06/22/2022 16:54
HFPO-DA	ND	0.11	0.11	0.033	1	13252-13-6		06/22/2022 16:54
PFBS	ND	0.098	0.098	0.024	1	375-73-5		06/22/2022 16:54
PFHxA	ND	0.11	0.11	0.033	1	307-24-4		06/22/2022 16:54
4:2 FTS	ND	0.10	0.10	0.035	1	757124-72-4		06/22/2022 16:54
PFPeS	ND	0.10	0.10	0.021	1	2706-91-4		06/22/2022 16:54
PFHpA	ND	0.11	0.11	0.025	1	375-85-9		06/22/2022 16:54
DONA	ND	0.10	0.10	0.042	1	919005-14-4		06/22/2022 16:54
PFHxS	0.21	0.10	0.10	0.024	1	355-46-4		06/22/2022 16:54
PFOA	ND	0.11	0.11	0.025	1	335-67-1		06/22/2022 16:54
6:2 FTS	ND	0.10	0.10	0.035	1	27619-97-2		06/22/2022 16:54
PFHpS	ND	0.10	0.10	0.028	1	375-92-8		06/22/2022 16:54
PFNA	ND	0.11	0.11	0.032	1	375-95-1		06/22/2022 16:54
PFOSAm	ND	0.11	0.11	0.026	1	754-91-6		06/22/2022 16:54
PFOS	1.1	0.10	0.10	0.031	1	1763-23-1		06/22/2022 16:54
MeFOSA	ND	0.11	0.11	0.027	1	31506-32-8		06/22/2022 16:54
PFDA	ND	0.11	0.11	0.024	1	335-76-2		06/22/2022 16:54
8:2 FTS	ND	0.11	0.11	0.029	1	39108-34-4		06/22/2022 16:54
9-CI-PF3ON	ND	0.10	0.10	0.016	1	756426-58-1		06/22/2022 16:54
PFNS	ND	0.11	0.11	0.020	1	68259-12-1		06/22/2022 16:54
PFUnDA	ND	0.11	0.11	0.031	1	2058-94-8		06/22/2022 16:54
NMeFOSAA	ND	0.11	0.11	0.026	1	2355-31-9		06/22/2022 16:54
NEtFOSAA	ND	0.11	0.11	0.027	1	2991-50-6		06/22/2022 16:54
PFDS	ND	0.11	0.11	0.028	1	335-77-3		06/22/2022 16:54
PFDOA	ND	0.11	0.11	0.029	1	307-55-1		06/22/2022 16:54
11-CI-PF3OUdS	ND	0.10	0.10	0.018	1	763051-92-9		06/22/2022 16:54
PFTTrDA	ND	0.11	0.11	0.024	1	72629-94-8		06/22/2022 16:54
PFTDA	ND	0.11	0.11	0.035	1	376-06-7		06/22/2022 16:54

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB20-1	Total Amount Extracted	5.09g
Lab Sample ID	10610381011	Percent Moisture	10.8544%
Lab File ID	B220622B_021	Dry Weight Extracted	4.53g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:21	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	105	50-150		06/22/2022 16:54
13C4 PFOA	1.1	1.2	110	50-150		06/22/2022 16:54
13C2 PFDA	1.1	1.2	111	50-150		06/22/2022 16:54
13C4 PFOS	1.1	1.2	114	50-150		06/22/2022 16:54

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	102	50-150		06/22/2022 16:54
13C5 PFPeA	1.1	1.2	104	50-150		06/22/2022 16:54
13C3 PFBS	1.0	1.2	113	50-150		06/22/2022 16:54
13C2 4:2FTS	1.0	2.3	223	50-150	R	06/22/2022 16:54
13C5 PFHxA	1.1	1.1	99	50-150		06/22/2022 16:54
13C4 PFHpA	1.1	1.2	108	50-150		06/22/2022 16:54
13C3 PFHxS	1.0	1.1	107	50-150		06/22/2022 16:54
13C2 6:2FTS	1.0	2.8	269	50-150	R	06/22/2022 16:54
13C8 PFOA	1.1	1.2	107	50-150		06/22/2022 16:54
13C9 PFNA	1.1	1.2	105	50-150		06/22/2022 16:54
13C8 PFOS	1.1	1.1	106	50-150		06/22/2022 16:54
13C2 8:2FTS	1.1	2.3	219	50-150	R	06/22/2022 16:54
13C6 PFDA	1.1	1.1	100	50-150		06/22/2022 16:54
d3-MeFOSAA	1.1	1.6	147	50-150		06/22/2022 16:54
13C8 PFOSA	1.1	1.0	92	50-150		06/22/2022 16:54
d5-EtFOSAA	1.1	1.6	143	50-150		06/22/2022 16:54
13C7 PFUdA	1.1	1.1	104	50-150		06/22/2022 16:54
13C2 PFDoA	1.1	1.1	103	50-150		06/22/2022 16:54
13C2 PFTeDA	1.1	0.93	84	50-150		06/22/2022 16:54
13C3 HFPO-DA	1.1	1.1	98	50-150		06/22/2022 16:54
d3-N-MeFOSA	1.1	0.29	26	10-150		06/22/2022 16:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB20-1	Total Amount Extracted	5.09g
Lab Sample ID	10610381011	Percent Moisture	10.8544%
Lab File ID	B220622B_021	Dry Weight Extracted	4.53g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:21	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.83	5.81	19		06/22/2022 16:54
13C4 PFOA	N/A	N/A	7.17	7.17	22		06/22/2022 16:54
13C2 PFDA	N/A	N/A	8.53	8.54	18		06/22/2022 16:54
13C4 PFOS	N/A	N/A	9.01	9.01	66		06/22/2022 16:54

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.33	4.38	23		06/22/2022 16:54
13C5 PFPeA	N/A	N/A	5.15	5.16	19		06/22/2022 16:54
13C3 PFBS	N/A	N/A	6.08	6.13	10		06/22/2022 16:54
13C2 4:2FTS	N/A	N/A	5.55	5.52	55	R	06/22/2022 16:54
13C5 PFHxA	N/A	N/A	5.83	5.84	18		06/22/2022 16:54
13C4 PFHpA	N/A	N/A	6.50	6.49	17		06/22/2022 16:54
13C3 PFHxS	N/A	N/A	7.59	7.59	94		06/22/2022 16:54
13C2 6:2FTS	N/A	N/A	6.82	6.82	68	R	06/22/2022 16:54
13C8 PFOA	N/A	N/A	7.17	7.17	22		06/22/2022 16:54
13C9 PFNA	N/A	N/A	7.85	7.85	19		06/22/2022 16:54
13C8 PFOS	N/A	N/A	9.01	9.01	73		06/22/2022 16:54
13C2 8:2FTS	N/A	N/A	8.14	8.15	74	R	06/22/2022 16:54
13C6 PFDA	N/A	N/A	8.53	8.54	17		06/22/2022 16:54
d3-MeFOSAA	N/A	N/A	8.40	8.40	11		06/22/2022 16:54
13C8 PFOSA	N/A	N/A	10.79	10.77	30		06/22/2022 16:54
d5-EtFOSAA	N/A	N/A	8.70	8.71	13		06/22/2022 16:54
13C7 PFUdA	N/A	N/A	9.21	9.22	24		06/22/2022 16:54
13C2 PFDaA	N/A	N/A	9.89	9.90	85		06/22/2022 16:54
13C2 PFTeDA	N/A	N/A	11.21	11.21	15		06/22/2022 16:54
13C3 HFPO-DA	N/A	N/A	6.10	6.13	15		06/22/2022 16:54
d3-N-MeFOSA	N/A	N/A	12.69	12.66	55		06/22/2022 16:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB20-1	Total Amount Extracted	5.09g
Lab Sample ID	10610381011	Percent Moisture	10.8544%
Lab File ID	B220622B_021	Dry Weight Extracted	4.53g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:21	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.33	ND		06/22/2022 16:54
PFPeA	N/A	N/A	5.15	5.17	ND		06/22/2022 16:54
HFPO-DA	0.53	0.29	6.12	6.10	ND		06/22/2022 16:54
PFBS	0.49	0.45	6.08	6.07	ND		06/22/2022 16:54
PFHxA	0.08	0.07	5.84	5.82	ND		06/22/2022 16:54
4:2 FTS	0.00	0.91	0.00	5.53	ND		06/22/2022 16:54
PFPeS	0.42	0.43	6.86	6.86	ND		06/22/2022 16:54
PFHpA	0.30	0.31	6.51	6.50	ND		06/22/2022 16:54
DONA	0.00	0.54	0.00	6.75	ND		06/22/2022 16:54
PFHxS	0.37	0.37	7.60	7.60	38		06/22/2022 16:54
PFOA	0.42	0.40	7.18	7.18	ND		06/22/2022 16:54
6:2 FTS	0.75	0.95	6.83	6.82	ND		06/22/2022 16:54
PFHpS	0.27	0.38	8.32	8.32	ND		06/22/2022 16:54
PFNA	0.13	0.13	7.86	7.86	ND		06/22/2022 16:54
PFOSAm	N/A	N/A	10.79	10.78	ND		06/22/2022 16:54
PFOS	0.40	0.43	9.02	9.03	38		06/22/2022 16:54
MeFOSA	0.00	0.50	0.00	12.69	ND		06/22/2022 16:54
PFDA	0.18	0.18	8.54	8.54	ND		06/22/2022 16:54
8:2 FTS	3.10	0.86	8.16	8.15	ND		06/22/2022 16:54
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 16:54
PFNS	0.02	0.51	9.65	9.71	ND		06/22/2022 16:54
PFUnDA	0.13	0.13	9.22	9.22	ND		06/22/2022 16:54
NMeFOSAA	0.00	0.90	0.00	8.41	ND		06/22/2022 16:54
NEtFOSAA	0.00	0.61	0.00	8.72	ND		06/22/2022 16:54
PFDS	0.63	0.35	10.37	10.37	ND		06/22/2022 16:54
PFDOA	0.25	0.17	9.90	9.90	ND		06/22/2022 16:54
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 16:54
PFTrDA	0.13	0.17	10.57	10.57	ND		06/22/2022 16:54
PFTDA	0.27	0.24	11.21	11.21	ND		06/22/2022 16:54

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB33-1
 Lab Sample ID 10610381012
 Lab File ID B220622B_022
 Matrix Soil
 Collected 05/26/2022 13:14
 Received 05/27/2022 17:19
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.21g
 Percent Moisture 22.2622%
 Dry Weight Extracted 4.05g
 Ical ID 220621B02
 CCal File B220622B_018
 Ending CCal File B220622B_030
 Blank File B220623A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.12	0.029	1	375-22-4		06/22/2022 17:14
PFPeA	ND	0.12	0.12	0.032	1	2706-90-3		06/22/2022 17:14
HFPO-DA	ND	0.12	0.12	0.037	1	13252-13-6		06/22/2022 17:14
PFBS	ND	0.11	0.11	0.027	1	375-73-5		06/22/2022 17:14
PFHxA	0.18	0.12	0.12	0.037	1	307-24-4		06/22/2022 17:14
4:2 FTS	ND	0.12	0.12	0.039	1	757124-72-4		06/22/2022 17:14
PFPeS	ND	0.12	0.12	0.023	1	2706-91-4		06/22/2022 17:14
PFHpA	0.14	0.12	0.12	0.028	1	375-85-9		06/22/2022 17:14
DONA	ND	0.12	0.12	0.047	1	919005-14-4		06/22/2022 17:14
PFHxS	1.4	0.11	0.11	0.027	1	355-46-4		06/22/2022 17:14
PFOA	0.17	0.12	0.12	0.028	1	335-67-1		06/22/2022 17:14
6:2 FTS	ND	0.12	0.12	0.040	1	27619-97-2		06/22/2022 17:14
PFHpS	ND	0.12	0.12	0.031	1	375-92-8		06/22/2022 17:14
PFNA	ND	0.12	0.12	0.035	1	375-95-1		06/22/2022 17:14
PFOSAm	ND	0.12	0.12	0.029	1	754-91-6		06/22/2022 17:14
PFOS	2.6	0.11	0.11	0.034	1	1763-23-1		06/22/2022 17:14
MeFOSA	ND	0.12	0.12	0.031	1	31506-32-8		06/22/2022 17:14
PFDA	ND	0.12	0.12	0.027	1	335-76-2		06/22/2022 17:14
8:2 FTS	ND	0.12	0.12	0.032	1	39108-34-4		06/22/2022 17:14
9-CI-PF3ON	ND	0.12	0.12	0.018	1	756426-58-1		06/22/2022 17:14
PFNS	ND	0.12	0.12	0.022	1	68259-12-1		06/22/2022 17:14
PFUnDA	ND	0.12	0.12	0.035	1	2058-94-8		06/22/2022 17:14
NMeFOSAA	ND	0.12	0.12	0.029	1	2355-31-9		06/22/2022 17:14
NEtFOSAA	ND	0.12	0.12	0.031	1	2991-50-6		06/22/2022 17:14
PFDS	ND	0.12	0.12	0.031	1	335-77-3		06/22/2022 17:14
PFDOA	ND	0.12	0.12	0.033	1	307-55-1		06/22/2022 17:14
11-CI-PF3OUdS	ND	0.12	0.12	0.020	1	763051-92-9		06/22/2022 17:14
PFTTrDA	ND	0.12	0.12	0.026	1	72629-94-8		06/22/2022 17:14
PFTDA	ND	0.12	0.12	0.040	1	376-06-7		06/22/2022 17:14

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB33-1	Total Amount Extracted	5.21g
Lab Sample ID	10610381012	Percent Moisture	22.2622%
Lab File ID	B220622B_022	Dry Weight Extracted	4.05g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:14	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.1	86	50-150		06/22/2022 17:14
13C4 PFOA	1.2	1.2	96	50-150		06/22/2022 17:14
13C2 PFDA	1.2	1.1	91	50-150		06/22/2022 17:14
13C4 PFOS	1.2	1.3	112	50-150		06/22/2022 17:14

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.0	82	50-150		06/22/2022 17:14
13C5 PFPeA	1.2	1.0	81	50-150		06/22/2022 17:14
13C3 PFBS	1.1	1.2	102	50-150		06/22/2022 17:14
13C2 4:2FTS	1.2	3.6	316	50-150	R	06/22/2022 17:14
13C5 PFHxA	1.2	0.98	79	50-150		06/22/2022 17:14
13C4 PFHpA	1.2	1.1	89	50-150		06/22/2022 17:14
13C3 PFHxS	1.2	1.1	97	50-150		06/22/2022 17:14
13C2 6:2FTS	1.2	4.5	381	50-150	R	06/22/2022 17:14
13C8 PFOA	1.2	1.1	89	50-150		06/22/2022 17:14
13C9 PFNA	1.2	1.1	89	50-150		06/22/2022 17:14
13C8 PFOS	1.2	1.2	98	50-150		06/22/2022 17:14
13C2 8:2FTS	1.2	3.5	297	50-150	R	06/22/2022 17:14
13C6 PFDA	1.2	1.0	84	50-150		06/22/2022 17:14
d3-MeFOSAA	1.2	1.4	111	50-150		06/22/2022 17:14
13C8 PFOSA	1.2	0.86	69	50-150		06/22/2022 17:14
d5-EtFOSAA	1.2	1.2	98	50-150		06/22/2022 17:14
13C7 PFUdA	1.2	1.1	87	50-150		06/22/2022 17:14
13C2 PFDoA	1.2	1.0	81	50-150		06/22/2022 17:14
13C2 PFTeDA	1.2	0.92	74	50-150		06/22/2022 17:14
13C3 HFPO-DA	1.2	1.0	81	50-150		06/22/2022 17:14
d3-N-MeFOSA	1.2	0.47	38	10-150		06/22/2022 17:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB33-1	Total Amount Extracted	5.21g
Lab Sample ID	10610381012	Percent Moisture	22.2622%
Lab File ID	B220622B_022	Dry Weight Extracted	4.05g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:14	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.81	5.81	15		06/22/2022 17:14
13C4 PFOA	N/A	N/A	7.17	7.17	16		06/22/2022 17:14
13C2 PFDA	N/A	N/A	8.53	8.54	13		06/22/2022 17:14
13C4 PFOS	N/A	N/A	9.01	9.01	60		06/22/2022 17:14

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.33	4.38	26		06/22/2022 17:14
13C5 PFPeA	N/A	N/A	5.13	5.16	17		06/22/2022 17:14
13C3 PFBS	N/A	N/A	6.07	6.13	91		06/22/2022 17:14
13C2 4:2FTS	N/A	N/A	5.53	5.52	49	R	06/22/2022 17:14
13C5 PFHxA	N/A	N/A	5.81	5.84	12		06/22/2022 17:14
13C4 PFHpA	N/A	N/A	6.50	6.49	14		06/22/2022 17:14
13C3 PFHxS	N/A	N/A	7.59	7.59	95		06/22/2022 17:14
13C2 6:2FTS	N/A	N/A	6.82	6.82	53	R	06/22/2022 17:14
13C8 PFOA	N/A	N/A	7.17	7.17	22		06/22/2022 17:14
13C9 PFNA	N/A	N/A	7.85	7.85	12		06/22/2022 17:14
13C8 PFOS	N/A	N/A	9.01	9.01	57		06/22/2022 17:14
13C2 8:2FTS	N/A	N/A	8.15	8.15	48	R	06/22/2022 17:14
13C6 PFDA	N/A	N/A	8.53	8.54	11		06/22/2022 17:14
d3-MeFOSAA	N/A	N/A	8.40	8.40	10		06/22/2022 17:14
13C8 PFOSA	N/A	N/A	10.81	10.77	17		06/22/2022 17:14
d5-EtFOSAA	N/A	N/A	8.71	8.71	92		06/22/2022 17:14
13C7 PFUdA	N/A	N/A	9.21	9.22	11		06/22/2022 17:14
13C2 PFDoA	N/A	N/A	9.90	9.90	59		06/22/2022 17:14
13C2 PFTeDA	N/A	N/A	11.22	11.21	11		06/22/2022 17:14
13C3 HFPO-DA	N/A	N/A	6.09	6.13	11		06/22/2022 17:14
d3-N-MeFOSA	N/A	N/A	12.69	12.66	40		06/22/2022 17:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB33-1	Total Amount Extracted	5.21g
Lab Sample ID	10610381012	Percent Moisture	22.2622%
Lab File ID	B220622B_022	Dry Weight Extracted	4.05g
Matrix	Soil	Ical ID	220621B02
Collected	05/26/2022 13:14	CCal File	B220622B_018
Received	05/27/2022 17:19	Ending CCal File	B220622B_030
Extraction Date	06/16/2022 12:56	Blank File	B220623A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.33	ND		06/22/2022 17:14
PFPeA	N/A	N/A	5.14	5.17	ND		06/22/2022 17:14
HFPO-DA	0.41	0.29	6.11	6.10	ND		06/22/2022 17:14
PFBS	0.43	0.45	6.08	6.07	ND		06/22/2022 17:14
PFHxA	0.08	0.07	5.82	5.82	10		06/22/2022 17:14
4:2 FTS	0.00	0.91	0.00	5.53	ND		06/22/2022 17:14
PFPeS	0.41	0.43	6.86	6.86	ND		06/22/2022 17:14
PFHpA	0.30	0.31	6.50	6.50	24		06/22/2022 17:14
DONA	0.00	0.54	0.00	6.75	ND		06/22/2022 17:14
PFHxS	0.41	0.37	7.60	7.60	93		06/22/2022 17:14
PFOA	0.35	0.40	7.18	7.18	83		06/22/2022 17:14
6:2 FTS	0.79	0.95	6.83	6.82	ND		06/22/2022 17:14
PFHpS	0.29	0.38	8.32	8.32	ND		06/22/2022 17:14
PFNA	0.13	0.13	7.86	7.86	ND		06/22/2022 17:14
PFOSAm	N/A	N/A	10.81	10.78	ND		06/22/2022 17:14
PFOS	0.34	0.43	9.02	9.03	29		06/22/2022 17:14
MeFOSA	0.00	0.50	0.00	12.69	ND		06/22/2022 17:14
PFDA	0.14	0.18	8.53	8.54	ND		06/22/2022 17:14
8:2 FTS	1.70	0.86	8.16	8.15	ND		06/22/2022 17:14
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/22/2022 17:14
PFNS	0.04	0.51	9.66	9.71	ND		06/22/2022 17:14
PFUnDA	0.17	0.13	9.22	9.22	ND		06/22/2022 17:14
NMeFOSAA	0.00	0.90	0.00	8.41	ND		06/22/2022 17:14
NEtFOSAA	0.00	0.61	0.00	8.72	ND		06/22/2022 17:14
PFDS	0.00	0.35	0.00	10.37	ND		06/22/2022 17:14
PFDOA	0.23	0.17	9.90	9.90	ND		06/22/2022 17:14
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 17:14
PFTrDA	0.16	0.17	10.58	10.57	ND		06/22/2022 17:14
PFTDA	0.26	0.24	11.22	11.21	ND		06/22/2022 17:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1-1	Total Amount Extracted	5.16g
Lab Sample ID	10610381013	Percent Moisture	9.2906%
Lab File ID	Q220627A_021	Dry Weight Extracted	4.68g
Matrix	Soil	Ical ID	220623A01
Collected	05/26/2022 06:22	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.025	1	375-22-4		06/27/2022 14:44
PFPeA	ND	0.11	0.11	0.028	1	2706-90-3		06/27/2022 14:44
HFPO-DA	ND	0.11	0.11	0.032	1	13252-13-6		06/27/2022 14:44
PFBS	ND	0.095	0.095	0.024	1	375-73-5		06/27/2022 14:44
PFHxA	ND	0.11	0.11	0.032	1	307-24-4		06/27/2022 14:44
4:2 FTS	ND	0.100	0.100	0.034	1	757124-72-4		06/27/2022 14:44
PFPeS	ND	0.10	0.10	0.020	1	2706-91-4		06/27/2022 14:44
PFHpA	ND	0.11	0.11	0.024	1	375-85-9		06/27/2022 14:44
DONA	ND	0.10	0.10	0.041	1	919005-14-4		06/27/2022 14:44
PFHxS	0.70	0.097	0.097	0.024	1	355-46-4		06/27/2022 14:44
PFOA	ND	0.11	0.11	0.024	1	335-67-1		06/27/2022 14:44
6:2 FTS	ND	0.10	0.10	0.034	1	27619-97-2		06/27/2022 14:44
PFHpS	ND	0.10	0.10	0.027	1	375-92-8		06/27/2022 14:44
PFNA	ND	0.11	0.11	0.031	1	375-95-1		06/27/2022 14:44
PFOSAm	ND	0.11	0.11	0.025	1	754-91-6		06/27/2022 14:44
PFOS	5.8	0.099	0.099	0.030	1	1763-23-1		06/27/2022 14:44
MeFOSA	ND	0.11	0.11	0.027	1	31506-32-8		06/27/2022 14:44
PFDA	ND	0.11	0.11	0.023	1	335-76-2		06/27/2022 14:44
8:2 FTS	ND	0.10	0.10	0.028	1	39108-34-4		06/27/2022 14:44
9-CI-PF3ON	ND	0.100	0.100	0.015	1	756426-58-1		06/27/2022 14:44
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/27/2022 14:44
PFUnDA	ND	0.11	0.11	0.030	1	2058-94-8		06/27/2022 14:44
NMeFOSAA	ND	0.11	0.11	0.025	1	2355-31-9		06/27/2022 14:44
NEtFOSAA	ND	0.11	0.11	0.026	1	2991-50-6		06/27/2022 14:44
PFDS	ND	0.10	0.10	0.027	1	335-77-3		06/27/2022 14:44
PFDOA	ND	0.11	0.11	0.028	1	307-55-1		06/27/2022 14:44
11-CI-PF3OUdS	ND	0.10	0.10	0.017	1	763051-92-9		06/27/2022 14:44
PFTTrDA	ND	0.11	0.11	0.023	1	72629-94-8		06/27/2022 14:44
PFTDA	ND	0.11	0.11	0.034	1	376-06-7		06/27/2022 14:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1-1	Total Amount Extracted	5.16g
Lab Sample ID	10610381013	Percent Moisture	9.2906%
Lab File ID	Q220627A_021	Dry Weight Extracted	4.68g
Matrix	Soil	Ical ID	220623A01
Collected	05/26/2022 06:22	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.1	106	50-150		06/27/2022 14:44
13C4 PFOA	1.1	1.3	123	50-150		06/27/2022 14:44
13C2 PFDA	1.1	0.93	87	50-150		06/27/2022 14:44
13C4 PFOS	1.0	1.3	125	50-150		06/27/2022 14:44

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.00	93	50-150		06/27/2022 14:44
13C5 PFPeA	1.1	0.99	92	50-150		06/27/2022 14:44
13C3 PFBS	0.99	0.87	88	50-150		06/27/2022 14:44
13C2 4:2FTS	1.00	2.1	210	50-150	R	06/27/2022 14:44
13C5 PFHxA	1.1	0.91	85	50-150		06/27/2022 14:44
13C4 PFHpA	1.1	0.90	85	50-150		06/27/2022 14:44
13C3 PFHxS	1.0	0.99	98	50-150		06/27/2022 14:44
13C2 6:2FTS	1.0	3.3	321	50-150	R	06/27/2022 14:44
13C8 PFOA	1.1	1.2	109	50-150		06/27/2022 14:44
13C9 PFNA	1.1	1.2	108	50-150		06/27/2022 14:44
13C8 PFOS	1.0	0.90	88	50-150		06/27/2022 14:44
13C2 8:2FTS	1.0	2.8	271	50-150	R	06/27/2022 14:44
13C6 PFDA	1.1	1.3	118	50-150		06/27/2022 14:44
d3-MeFOSAA	1.1	1.5	138	50-150		06/27/2022 14:44
13C8 PFOSA	1.1	0.87	81	50-150		06/27/2022 14:44
d5-EtFOSAA	1.1	1.7	156	50-150	R	06/27/2022 14:44
13C7 PFUdA	1.1	1.3	120	50-150		06/27/2022 14:44
13C2 PFDoA	1.1	1.2	112	50-150		06/27/2022 14:44
13C2 PFTeDA	1.1	1.4	135	50-150		06/27/2022 14:44
13C3 HFPO-DA	1.1	0.93	87	50-150		06/27/2022 14:44
d3-N-MeFOSA	1.1	0.22	21	10-150		06/27/2022 14:44

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1-1	Total Amount Extracted	5.16g
Lab Sample ID	10610381013	Percent Moisture	9.2906%
Lab File ID	Q220627A_021	Dry Weight Extracted	4.68g
Matrix	Soil	Ical ID	220623A01
Collected	05/26/2022 06:22	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	12		06/27/2022 14:44
13C4 PFOA	N/A	N/A	7.50	7.50	13		06/27/2022 14:44
13C2 PFDA	N/A	N/A	8.81	8.74	99		06/27/2022 14:44
13C4 PFOS	N/A	N/A	9.23	9.23	48		06/27/2022 14:44

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.70	4.73	22		06/27/2022 14:44
13C5 PFPeA	N/A	N/A	5.51	5.53	13		06/27/2022 14:44
13C3 PFBS	N/A	N/A	6.42	6.39	65		06/27/2022 14:44
13C2 4:2FTS	N/A	N/A	5.91	5.90	37	R	06/27/2022 14:44
13C5 PFHxA	N/A	N/A	6.19	6.17	69		06/27/2022 14:44
13C4 PFHpA	N/A	N/A	6.85	6.83	82		06/27/2022 14:44
13C3 PFHxS	N/A	N/A	7.87	7.89	88		06/27/2022 14:44
13C2 6:2FTS	N/A	N/A	7.17	7.15	29	R	06/27/2022 14:44
13C8 PFOA	N/A	N/A	7.50	7.52	19		06/27/2022 14:44
13C9 PFNA	N/A	N/A	8.16	8.12	15		06/27/2022 14:44
13C8 PFOS	N/A	N/A	9.23	9.17	45		06/27/2022 14:44
13C2 8:2FTS	N/A	N/A	8.44	8.38	45	R	06/27/2022 14:44
13C6 PFDA	N/A	N/A	8.81	8.75	18		06/27/2022 14:44
d3-MeFOSAA	N/A	N/A	8.71	8.65	23		06/27/2022 14:44
13C8 PFOSA	N/A	N/A	11.32	11.25	11		06/27/2022 14:44
d5-EtFOSAA	N/A	N/A	9.03	8.95	80	R	06/27/2022 14:44
13C7 PFUdA	N/A	N/A	9.47	9.40	16		06/27/2022 14:44
13C2 PFDoA	N/A	N/A	10.13	10.05	57		06/27/2022 14:44
13C2 PFTeDA	N/A	N/A	11.40	11.30	14		06/27/2022 14:44
13C3 HFPO-DA	N/A	N/A	6.47	6.43	40		06/27/2022 14:44
d3-N-MeFOSA	N/A	N/A	13.21	13.16	28		06/27/2022 14:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB1-1	Total Amount Extracted	5.16g
Lab Sample ID	10610381013	Percent Moisture	9.2906%
Lab File ID	Q220627A_021	Dry Weight Extracted	4.68g
Matrix	Soil	Ical ID	220623A01
Collected	05/26/2022 06:22	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.71	4.77	ND		06/27/2022 14:44
PFPeA	N/A	N/A	5.52	5.54	ND		06/27/2022 14:44
HFPO-DA	18.0	0.49	6.46	6.44	ND		06/27/2022 14:44
PFBS	0.39	0.33	6.42	6.40	ND		06/27/2022 14:44
PFHxA	0.05	0.07	6.20	6.17	ND		06/27/2022 14:44
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 14:44
PFPeS	0.39	0.44	7.18	7.18	ND		06/27/2022 14:44
PFHpA	0.38	0.43	6.86	6.81	ND		06/27/2022 14:44
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 14:44
PFHxS	0.32	0.33	7.88	7.82	45		06/27/2022 14:44
PFOA	0.35	0.29	7.51	7.44	ND		06/27/2022 14:44
6:2 FTS	0.00	1.00	0.00	7.12	ND		06/27/2022 14:44
PFHpS	0.34	0.41	8.57	8.51	ND		06/27/2022 14:44
PFNA	0.21	0.23	8.16	8.10	ND		06/27/2022 14:44
PFOSAm	N/A	N/A	11.33	11.26	ND		06/27/2022 14:44
PFOS	0.26	0.20	9.25	9.18	33		06/27/2022 14:44
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 14:44
PFDA	0.15	0.17	8.82	8.83	ND		06/27/2022 14:44
8:2 FTS	0.00	1.80	0.00	8.38	ND		06/27/2022 14:44
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 14:44
PFNS	0.26	0.23	9.91	9.83	ND		06/27/2022 14:44
PFUnDA	0.00	0.18	0.00	9.40	ND		06/27/2022 14:44
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 14:44
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 14:44
PFDS	0.23	0.26	10.56	10.47	ND		06/27/2022 14:44
PFDOA	0.00	0.19	0.00	10.05	ND		06/27/2022 14:44
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 14:44
PFTDA	0.00	0.22	0.00	10.69	ND		06/27/2022 14:44
PFTDA	0.00	0.17	0.00	11.30	ND		06/27/2022 14:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB32-1
 Lab Sample ID 10610381014
 Lab File ID Q220627A_022
 Matrix Soil
 Collected 05/26/2022 01:19
 Received 05/27/2022 17:19
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.04g
 Percent Moisture 8.6288%
 Dry Weight Extracted 4.60g
 Ical ID 220623A01
 CCal File Q220627A_020
 Ending CCal File Q220627A_034
 Blank File Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.026	1	375-22-4		06/27/2022 15:03
PFPeA	ND	0.11	0.11	0.029	1	2706-90-3		06/27/2022 15:03
HFPO-DA	ND	0.11	0.11	0.032	1	13252-13-6		06/27/2022 15:03
PFBS	ND	0.096	0.096	0.024	1	375-73-5		06/27/2022 15:03
PFHxA	ND	0.11	0.11	0.033	1	307-24-4		06/27/2022 15:03
4:2 FTS	ND	0.10	0.10	0.035	1	757124-72-4		06/27/2022 15:03
PFPeS	ND	0.10	0.10	0.020	1	2706-91-4		06/27/2022 15:03
PFHpA	ND	0.11	0.11	0.024	1	375-85-9		06/27/2022 15:03
DONA	ND	0.10	0.10	0.042	1	919005-14-4		06/27/2022 15:03
PFHxS	0.22	0.099	0.099	0.024	1	355-46-4		06/27/2022 15:03
PFOA	ND	0.11	0.11	0.025	1	335-67-1		06/27/2022 15:03
6:2 FTS	ND	0.10	0.10	0.035	1	27619-97-2		06/27/2022 15:03
PFHpS	ND	0.10	0.10	0.027	1	375-92-8		06/27/2022 15:03
PFNA	ND	0.11	0.11	0.031	1	375-95-1		06/27/2022 15:03
PFOSAm	ND	0.11	0.11	0.026	1	754-91-6		06/27/2022 15:03
PFOS	2.1	0.10	0.10	0.030	1	1763-23-1		06/27/2022 15:03
MeFOSA	ND	0.11	0.11	0.027	1	31506-32-8		06/27/2022 15:03
PFDA	ND	0.11	0.11	0.024	1	335-76-2		06/27/2022 15:03
8:2 FTS	0.13	0.10	0.10	0.028	1	39108-34-4		06/27/2022 15:03
9-CI-PF3ON	ND	0.10	0.10	0.016	1	756426-58-1		06/27/2022 15:03
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/27/2022 15:03
PFUnDA	ND	0.11	0.11	0.031	1	2058-94-8		06/27/2022 15:03
NMeFOSAA	ND	0.11	0.11	0.025	1	2355-31-9		06/27/2022 15:03
NEtFOSAA	ND	0.11	0.11	0.027	1	2991-50-6		06/27/2022 15:03
PFDS	ND	0.10	0.10	0.027	1	335-77-3		06/27/2022 15:03
PFDOA	ND	0.11	0.11	0.029	1	307-55-1		06/27/2022 15:03
11-CI-PF3OUdS	ND	0.10	0.10	0.018	1	763051-92-9		06/27/2022 15:03
PFTTrDA	ND	0.11	0.11	0.023	1	72629-94-8		06/27/2022 15:03
PFTDA	ND	0.11	0.11	0.035	1	376-06-7		06/27/2022 15:03

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB32-1	Total Amount Extracted	5.04g
Lab Sample ID	10610381014	Percent Moisture	8.6288%
Lab File ID	Q220627A_022	Dry Weight Extracted	4.60g
Matrix	Soil	Ical ID	220623A01
Collected	05/26/2022 01:19	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.93	85	50-150		06/27/2022 15:03
13C4 PFOA	1.1	1.0	95	50-150		06/27/2022 15:03
13C2 PFDA	1.1	0.89	82	50-150		06/27/2022 15:03
13C4 PFOS	1.0	1.3	124	50-150		06/27/2022 15:03

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.68	63	50-150		06/27/2022 15:03
13C5 PFPeA	1.1	0.72	66	50-150		06/27/2022 15:03
13C3 PFBS	1.0	0.75	74	50-150		06/27/2022 15:03
13C2 4:2FTS	1.0	2.3	222	50-150	R	06/27/2022 15:03
13C5 PFHxA	1.1	0.70	65	50-150		06/27/2022 15:03
13C4 PFHpA	1.1	0.66	61	50-150		06/27/2022 15:03
13C3 PFHxS	1.0	0.77	75	50-150		06/27/2022 15:03
13C2 6:2FTS	1.0	3.5	338	50-150	R	06/27/2022 15:03
13C8 PFOA	1.1	0.81	75	50-150		06/27/2022 15:03
13C9 PFNA	1.1	0.76	70	50-150		06/27/2022 15:03
13C8 PFOS	1.0	0.81	78	50-150		06/27/2022 15:03
13C2 8:2FTS	1.0	3.3	318	50-150	R	06/27/2022 15:03
13C6 PFDA	1.1	0.73	67	50-150		06/27/2022 15:03
d3-MeFOSAA	1.1	1.2	108	50-150		06/27/2022 15:03
13C8 PFOSA	1.1	0.66	61	50-150		06/27/2022 15:03
d5-EtFOSAA	1.1	1.5	135	50-150		06/27/2022 15:03
13C7 PFUdA	1.1	0.88	81	50-150		06/27/2022 15:03
13C2 PFDoA	1.1	0.96	88	50-150		06/27/2022 15:03
13C2 PFTeDA	1.1	1.0	96	50-150		06/27/2022 15:03
13C3 HFPO-DA	1.1	0.62	57	50-150		06/27/2022 15:03
d3-N-MeFOSA	1.1	0.48	44	10-150		06/27/2022 15:03

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB32-1	Total Amount Extracted	5.04g
Lab Sample ID	10610381014	Percent Moisture	8.6288%
Lab File ID	Q220627A_022	Dry Weight Extracted	4.60g
Matrix	Soil	Ical ID	220623A01
Collected	05/26/2022 01:19	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.20	6.16	75		06/27/2022 15:03
13C4 PFOA	N/A	N/A	7.50	7.50	14		06/27/2022 15:03
13C2 PFDA	N/A	N/A	8.80	8.74	98		06/27/2022 15:03
13C4 PFOS	N/A	N/A	9.21	9.23	22		06/27/2022 15:03

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.73	13		06/27/2022 15:03
13C5 PFPeA	N/A	N/A	5.53	5.53	92		06/27/2022 15:03
13C3 PFBS	N/A	N/A	6.43	6.39	30		06/27/2022 15:03
13C2 4:2FTS	N/A	N/A	5.93	5.90	23	R	06/27/2022 15:03
13C5 PFHxA	N/A	N/A	6.20	6.17	61		06/27/2022 15:03
13C4 PFHpA	N/A	N/A	6.86	6.83	88		06/27/2022 15:03
13C3 PFHxS	N/A	N/A	7.87	7.89	39		06/27/2022 15:03
13C2 6:2FTS	N/A	N/A	7.17	7.15	22	R	06/27/2022 15:03
13C8 PFOA	N/A	N/A	7.50	7.52	14		06/27/2022 15:03
13C9 PFNA	N/A	N/A	8.15	8.12	10		06/27/2022 15:03
13C8 PFOS	N/A	N/A	9.22	9.17	26		06/27/2022 15:03
13C2 8:2FTS	N/A	N/A	8.43	8.38	34	R	06/27/2022 15:03
13C6 PFDA	N/A	N/A	8.80	8.75	82		06/27/2022 15:03
d3-MeFOSAA	N/A	N/A	8.71	8.65	83		06/27/2022 15:03
13C8 PFOSA	N/A	N/A	11.31	11.25	13		06/27/2022 15:03
d5-EtFOSAA	N/A	N/A	9.01	8.95	11		06/27/2022 15:03
13C7 PFUdA	N/A	N/A	9.45	9.40	95		06/27/2022 15:03
13C2 PFDoA	N/A	N/A	10.11	10.05	38		06/27/2022 15:03
13C2 PFTeDA	N/A	N/A	11.38	11.30	86		06/27/2022 15:03
13C3 HFPO-DA	N/A	N/A	6.47	6.43	41		06/27/2022 15:03
d3-N-MeFOSA	N/A	N/A	13.21	13.16	29		06/27/2022 15:03

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB32-1	Total Amount Extracted	5.04g
Lab Sample ID	10610381014	Percent Moisture	8.6288%
Lab File ID	Q220627A_022	Dry Weight Extracted	4.60g
Matrix	Soil	Ical ID	220623A01
Collected	05/26/2022 01:19	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.70	4.77	ND		06/27/2022 15:03
PFPeA	N/A	N/A	5.53	5.54	ND		06/27/2022 15:03
HFPO-DA	0.00	0.49	0.00	6.44	ND		06/27/2022 15:03
PFBS	0.26	0.33	6.43	6.40	ND		06/27/2022 15:03
PFHxA	0.06	0.07	6.20	6.17	ND		06/27/2022 15:03
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 15:03
PFPeS	0.32	0.44	7.18	7.18	ND		06/27/2022 15:03
PFHpA	0.00	0.43	0.00	6.81	ND		06/27/2022 15:03
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 15:03
PFHxS	0.29	0.33	7.87	7.82	13		06/27/2022 15:03
PFOA	0.29	0.29	7.51	7.44	ND		06/27/2022 15:03
6:2 FTS	1.50	1.00	7.18	7.12	ND		06/27/2022 15:03
PFHpS	0.50	0.41	8.56	8.51	ND		06/27/2022 15:03
PFNA	0.25	0.23	8.16	8.10	ND		06/27/2022 15:03
PFOSAm	N/A	N/A	11.32	11.26	ND		06/27/2022 15:03
PFOS	0.24	0.20	9.23	9.18	24		06/27/2022 15:03
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 15:03
PFDA	0.15	0.17	8.81	8.83	ND		06/27/2022 15:03
8:2 FTS	1.50	1.80	8.44	8.38	41		06/27/2022 15:03
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 15:03
PFNS	0.17	0.23	9.88	9.83	ND		06/27/2022 15:03
PFUnDA	0.17	0.18	9.46	9.40	ND		06/27/2022 15:03
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 15:03
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 15:03
PFDS	0.29	0.26	10.54	10.47	ND		06/27/2022 15:03
PFDOA	0.24	0.19	10.12	10.05	ND		06/27/2022 15:03
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 15:03
PFTrDA	0.21	0.22	10.76	10.69	ND		06/27/2022 15:03
PFTDA	0.00	0.17	0.00	11.30	ND		06/27/2022 15:03

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB192-1
 Lab Sample ID 10610381015
 Lab File ID Q220627A_023
 Matrix Soil
 Collected 05/25/2022 23:32
 Received 05/27/2022 17:19
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.33g
 Percent Moisture 23.9223%
 Dry Weight Extracted 4.06g
 Ical ID 220623A01
 CCal File Q220627A_020
 Ending CCal File Q220627A_034
 Blank File Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.12	0.029	1	375-22-4		06/27/2022 15:21
PFPeA	ND	0.12	0.12	0.032	1	2706-90-3		06/27/2022 15:21
HFPO-DA	ND	0.12	0.12	0.037	1	13252-13-6		06/27/2022 15:21
PFBS	ND	0.11	0.11	0.027	1	375-73-5		06/27/2022 15:21
PFHxA	ND	0.12	0.12	0.037	1	307-24-4		06/27/2022 15:21
4:2 FTS	ND	0.12	0.12	0.039	1	757124-72-4		06/27/2022 15:21
PFPeS	ND	0.12	0.12	0.023	1	2706-91-4		06/27/2022 15:21
PFHpA	ND	0.12	0.12	0.028	1	375-85-9		06/27/2022 15:21
DONA	ND	0.12	0.12	0.047	1	919005-14-4		06/27/2022 15:21
PFHxS	0.54	0.11	0.11	0.027	1	355-46-4		06/27/2022 15:21
PFOA	0.18	0.12	0.12	0.028	1	335-67-1		06/27/2022 15:21
6:2 FTS	ND	0.12	0.12	0.039	1	27619-97-2		06/27/2022 15:21
PFHpS	ND	0.12	0.12	0.031	1	375-92-8		06/27/2022 15:21
PFNA	0.17 I	0.12	0.12	0.035	1	375-95-1		06/27/2022 15:21
PFOSAm	ND	0.12	0.12	0.029	1	754-91-6		06/27/2022 15:21
PFOS	4.0	0.11	0.11	0.034	1	1763-23-1		06/27/2022 15:21
MeFOSA	ND	0.12	0.12	0.031	1	31506-32-8		06/27/2022 15:21
PFDA	ND	0.12	0.12	0.027	1	335-76-2		06/27/2022 15:21
8:2 FTS	ND	0.12	0.12	0.032	1	39108-34-4		06/27/2022 15:21
9-CI-PF3ON	ND	0.11	0.11	0.018	1	756426-58-1		06/27/2022 15:21
PFNS	ND	0.12	0.12	0.022	1	68259-12-1		06/27/2022 15:21
PFUnDA	ND	0.12	0.12	0.035	1	2058-94-8		06/27/2022 15:21
NMeFOSAA	ND	0.12	0.12	0.029	1	2355-31-9		06/27/2022 15:21
NEtFOSAA	ND	0.12	0.12	0.030	1	2991-50-6		06/27/2022 15:21
PFDS	ND	0.12	0.12	0.031	1	335-77-3		06/27/2022 15:21
PFDOA	ND	0.12	0.12	0.033	1	307-55-1		06/27/2022 15:21
11-CI-PF3OUdS	ND	0.12	0.12	0.020	1	763051-92-9		06/27/2022 15:21
PFTTrDA	ND	0.12	0.12	0.026	1	72629-94-8		06/27/2022 15:21
PFTDA	ND	0.12	0.12	0.040	1	376-06-7		06/27/2022 15:21

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB192-1	Total Amount Extracted	5.33g
Lab Sample ID	10610381015	Percent Moisture	23.9223%
Lab File ID	Q220627A_023	Dry Weight Extracted	4.06g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:32	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	0.73	60	50-150		06/27/2022 15:21
13C4 PFOA	1.2	0.74	60	50-150		06/27/2022 15:21
13C2 PFDA	1.2	0.74	60	50-150		06/27/2022 15:21
13C4 PFOS	1.2	1.0	89	50-150		06/27/2022 15:21

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	0.73	60	50-150		06/27/2022 15:21
13C5 PFPeA	1.2	0.68	55	50-150		06/27/2022 15:21
13C3 PFBS	1.1	0.83	72	50-150		06/27/2022 15:21
13C2 4:2FTS	1.2	2.8	245	50-150	R	06/27/2022 15:21
13C5 PFHxA	1.2	0.60	48	50-150	R	06/27/2022 15:21
13C4 PFHpA	1.2	0.52	42	50-150	R	06/27/2022 15:21
13C3 PFHxS	1.2	0.78	67	50-150		06/27/2022 15:21
13C2 6:2FTS	1.2	4.1	349	50-150	R	06/27/2022 15:21
13C8 PFOA	1.2	0.68	55	50-150		06/27/2022 15:21
13C9 PFNA	1.2	0.67	55	50-150		06/27/2022 15:21
13C8 PFOS	1.2	0.65	55	50-150		06/27/2022 15:21
13C2 8:2FTS	1.2	3.8	320	50-150	R	06/27/2022 15:21
13C6 PFDA	1.2	0.69	56	50-150		06/27/2022 15:21
d3-MeFOSAA	1.2	1.3	102	50-150		06/27/2022 15:21
13C8 PFOSA	1.2	0.51	41	50-150	R	06/27/2022 15:21
d5-EtFOSAA	1.2	1.4	116	50-150		06/27/2022 15:21
13C7 PFUdA	1.2	0.71	57	50-150		06/27/2022 15:21
13C2 PFDoA	1.2	0.83	67	50-150		06/27/2022 15:21
13C2 PFTeDA	1.2	0.84	68	50-150		06/27/2022 15:21
13C3 HFPO-DA	1.2	0.55	44	50-150	R	06/27/2022 15:21
d3-N-MeFOSA	1.2	0.29	23	10-150		06/27/2022 15:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB192-1	Total Amount Extracted	5.33g
Lab Sample ID	10610381015	Percent Moisture	23.9223%
Lab File ID	Q220627A_023	Dry Weight Extracted	4.06g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:32	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.20	6.16	67		06/27/2022 15:21
13C4 PFOA	N/A	N/A	7.51	7.50	14		06/27/2022 15:21
13C2 PFDA	N/A	N/A	8.80	8.74	48		06/27/2022 15:21
13C4 PFOS	N/A	N/A	9.22	9.23	28		06/27/2022 15:21

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.73	14		06/27/2022 15:21
13C5 PFPeA	N/A	N/A	5.52	5.53	86		06/27/2022 15:21
13C3 PFBS	N/A	N/A	6.42	6.39	40		06/27/2022 15:21
13C2 4:2FTS	N/A	N/A	5.92	5.90	23	R	06/27/2022 15:21
13C5 PFHxA	N/A	N/A	6.20	6.17	67	R	06/27/2022 15:21
13C4 PFHpA	N/A	N/A	6.85	6.83	79	R	06/27/2022 15:21
13C3 PFHxS	N/A	N/A	7.87	7.89	57		06/27/2022 15:21
13C2 6:2FTS	N/A	N/A	7.17	7.15	29	R	06/27/2022 15:21
13C8 PFOA	N/A	N/A	7.51	7.52	14		06/27/2022 15:21
13C9 PFNA	N/A	N/A	8.15	8.12	89		06/27/2022 15:21
13C8 PFOS	N/A	N/A	9.22	9.17	33		06/27/2022 15:21
13C2 8:2FTS	N/A	N/A	8.44	8.38	26	R	06/27/2022 15:21
13C6 PFDA	N/A	N/A	8.80	8.75	74		06/27/2022 15:21
d3-MeFOSAA	N/A	N/A	8.71	8.65	59		06/27/2022 15:21
13C8 PFOSA	N/A	N/A	11.31	11.25	68	R	06/27/2022 15:21
d5-EtFOSAA	N/A	N/A	9.02	8.95	71		06/27/2022 15:21
13C7 PFUdA	N/A	N/A	9.46	9.40	67		06/27/2022 15:21
13C2 PFDoA	N/A	N/A	10.11	10.05	52		06/27/2022 15:21
13C2 PFTeDA	N/A	N/A	11.38	11.30	49		06/27/2022 15:21
13C3 HFPO-DA	N/A	N/A	6.47	6.43	36	R	06/27/2022 15:21
d3-N-MeFOSA	N/A	N/A	13.20	13.16	20		06/27/2022 15:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB192-1	Total Amount Extracted	5.33g
Lab Sample ID	10610381015	Percent Moisture	23.9223%
Lab File ID	Q220627A_023	Dry Weight Extracted	4.06g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:32	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.70	4.77	ND		06/27/2022 15:21
PFPeA	N/A	N/A	5.52	5.54	ND		06/27/2022 15:21
HFPO-DA	0.00	0.49	0.00	6.44	ND		06/27/2022 15:21
PFBS	0.18	0.33	6.43	6.40	ND		06/27/2022 15:21
PFHxA	0.00	0.07	0.00	6.17	ND		06/27/2022 15:21
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 15:21
PFPeS	0.47	0.44	7.17	7.18	ND		06/27/2022 15:21
PFHpA	0.71	0.43	6.86	6.81	ND		06/27/2022 15:21
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 15:21
PFHxS	0.31	0.33	7.88	7.82	23		06/27/2022 15:21
PFOA	0.35	0.29	7.51	7.44	66		06/27/2022 15:21
6:2 FTS	1.60	1.00	7.18	7.12	ND		06/27/2022 15:21
PFHpS	0.18	0.41	8.57	8.51	ND		06/27/2022 15:21
PFNA	0.11	0.23	8.17	8.17	85		06/27/2022 15:21
PFOSAm	N/A	N/A	11.32	11.26	ND		06/27/2022 15:21
PFOS	0.24	0.20	9.23	9.18	33		06/27/2022 15:21
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 15:21
PFDA	0.19	0.17	8.81	8.83	ND		06/27/2022 15:21
8:2 FTS	2.30	1.80	8.45	8.38	ND		06/27/2022 15:21
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 15:21
PFNS	0.14	0.23	9.88	9.83	ND		06/27/2022 15:21
PFUnDA	0.17	0.18	9.46	9.40	ND		06/27/2022 15:21
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 15:21
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 15:21
PFDS	0.00	0.26	0.00	10.47	ND		06/27/2022 15:21
PFDOA	0.00	0.19	0.00	10.05	ND		06/27/2022 15:21
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 15:21
PFTrDA	0.00	0.22	0.00	10.69	ND		06/27/2022 15:21
PFTDA	0.00	0.17	0.00	11.30	ND		06/27/2022 15:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB191-1
 Lab Sample ID 10610381016
 Lab File ID Q220627A_024
 Matrix Soil
 Collected 05/25/2022 23:54
 Received 05/27/2022 17:19
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.26g
 Percent Moisture 10.558%
 Dry Weight Extracted 4.70g
 Ical ID 220623A01
 CCal File Q220627A_020
 Ending CCal File Q220627A_034
 Blank File Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.025	1	375-22-4		06/27/2022 15:40
PFPeA	ND	0.11	0.11	0.028	1	2706-90-3		06/27/2022 15:40
HFPO-DA	ND	0.11	0.11	0.032	1	13252-13-6		06/27/2022 15:40
PFBS	ND	0.094	0.094	0.023	1	375-73-5		06/27/2022 15:40
PFHxA	ND	0.11	0.11	0.032	1	307-24-4		06/27/2022 15:40
4:2 FTS	ND	0.099	0.099	0.034	1	757124-72-4		06/27/2022 15:40
PFPeS	ND	0.100	0.100	0.020	1	2706-91-4		06/27/2022 15:40
PFHpA	ND	0.11	0.11	0.024	1	375-85-9		06/27/2022 15:40
DONA	ND	0.10	0.10	0.041	1	919005-14-4		06/27/2022 15:40
PFHxS	0.48	0.097	0.097	0.024	1	355-46-4		06/27/2022 15:40
PFOA	0.15	0.11	0.11	0.024	1	335-67-1		06/27/2022 15:40
6:2 FTS	ND	0.10	0.10	0.034	1	27619-97-2		06/27/2022 15:40
PFHpS	ND	0.10	0.10	0.027	1	375-92-8		06/27/2022 15:40
PFNA	0.11	0.11	0.11	0.030	1	375-95-1		06/27/2022 15:40
PFOSAm	ND	0.11	0.11	0.025	1	754-91-6		06/27/2022 15:40
PFOS	2.6	0.098	0.098	0.030	1	1763-23-1		06/27/2022 15:40
MeFOSA	ND	0.11	0.11	0.026	1	31506-32-8		06/27/2022 15:40
PFDA	ND	0.11	0.11	0.023	1	335-76-2		06/27/2022 15:40
8:2 FTS	0.12	0.10	0.10	0.028	1	39108-34-4		06/27/2022 15:40
9-CI-PF3ON	ND	0.099	0.099	0.015	1	756426-58-1		06/27/2022 15:40
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/27/2022 15:40
PFUnDA	0.13	0.11	0.11	0.030	1	2058-94-8		06/27/2022 15:40
NMeFOSAA	ND	0.11	0.11	0.025	1	2355-31-9		06/27/2022 15:40
NEtFOSAA	ND	0.11	0.11	0.026	1	2991-50-6		06/27/2022 15:40
PFDS	ND	0.10	0.10	0.027	1	335-77-3		06/27/2022 15:40
PFDOA	ND	0.11	0.11	0.028	1	307-55-1		06/27/2022 15:40
11-CI-PF3OUdS	ND	0.10	0.10	0.017	1	763051-92-9		06/27/2022 15:40
PFTTrDA	ND	0.11	0.11	0.023	1	72629-94-8		06/27/2022 15:40
PFTDA	ND	0.11	0.11	0.034	1	376-06-7		06/27/2022 15:40

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB191-1	Total Amount Extracted	5.26g
Lab Sample ID	10610381016	Percent Moisture	10.558%
Lab File ID	Q220627A_024	Dry Weight Extracted	4.70g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:54	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.92	86	50-150		06/27/2022 15:40
13C4 PFOA	1.1	0.91	86	50-150		06/27/2022 15:40
13C2 PFDA	1.1	0.91	85	50-150		06/27/2022 15:40
13C4 PFOS	1.0	1.3	129	50-150		06/27/2022 15:40

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.83	78	50-150		06/27/2022 15:40
13C5 PFPeA	1.1	0.79	74	50-150		06/27/2022 15:40
13C3 PFBS	0.99	0.79	80	50-150		06/27/2022 15:40
13C2 4:2FTS	0.99	2.8	282	50-150	R	06/27/2022 15:40
13C5 PFHxA	1.1	0.79	74	50-150		06/27/2022 15:40
13C4 PFHpA	1.1	0.57	54	50-150		06/27/2022 15:40
13C3 PFHxS	1.0	0.81	81	50-150		06/27/2022 15:40
13C2 6:2FTS	1.0	4.3	428	50-150	R	06/27/2022 15:40
13C8 PFOA	1.1	0.91	85	50-150		06/27/2022 15:40
13C9 PFNA	1.1	0.89	84	50-150		06/27/2022 15:40
13C8 PFOS	1.0	0.82	80	50-150		06/27/2022 15:40
13C2 8:2FTS	1.0	4.1	405	50-150	R	06/27/2022 15:40
13C6 PFDA	1.1	0.82	77	50-150		06/27/2022 15:40
d3-MeFOSAA	1.1	1.5	137	50-150		06/27/2022 15:40
13C8 PFOSA	1.1	0.60	56	50-150		06/27/2022 15:40
d5-EtFOSAA	1.1	1.7	156	50-150	R	06/27/2022 15:40
13C7 PFUdA	1.1	0.84	79	50-150		06/27/2022 15:40
13C2 PFDoA	1.1	1.0	95	50-150		06/27/2022 15:40
13C2 PFTeDA	1.1	0.71	66	50-150		06/27/2022 15:40
13C3 HFPO-DA	1.1	0.61	57	50-150		06/27/2022 15:40
d3-N-MeFOSA	1.1	0.31	29	10-150		06/27/2022 15:40

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB191-1	Total Amount Extracted	5.26g
Lab Sample ID	10610381016	Percent Moisture	10.558%
Lab File ID	Q220627A_024	Dry Weight Extracted	4.70g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:54	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.21	6.16	11		06/27/2022 15:40
13C4 PFOA	N/A	N/A	7.51	7.50	16		06/27/2022 15:40
13C2 PFDA	N/A	N/A	8.81	8.74	94		06/27/2022 15:40
13C4 PFOS	N/A	N/A	9.23	9.23	32		06/27/2022 15:40

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.73	16		06/27/2022 15:40
13C5 PFPeA	N/A	N/A	5.53	5.53	14		06/27/2022 15:40
13C3 PFBS	N/A	N/A	6.43	6.39	39		06/27/2022 15:40
13C2 4:2FTS	N/A	N/A	5.94	5.90	31	R	06/27/2022 15:40
13C5 PFHxA	N/A	N/A	6.21	6.17	81		06/27/2022 15:40
13C4 PFHpA	N/A	N/A	6.87	6.83	92		06/27/2022 15:40
13C3 PFHxS	N/A	N/A	7.88	7.89	61		06/27/2022 15:40
13C2 6:2FTS	N/A	N/A	7.18	7.15	28	R	06/27/2022 15:40
13C8 PFOA	N/A	N/A	7.51	7.52	16		06/27/2022 15:40
13C9 PFNA	N/A	N/A	8.16	8.12	10		06/27/2022 15:40
13C8 PFOS	N/A	N/A	9.24	9.17	36		06/27/2022 15:40
13C2 8:2FTS	N/A	N/A	8.45	8.38	48	R	06/27/2022 15:40
13C6 PFDA	N/A	N/A	8.82	8.75	75		06/27/2022 15:40
d3-MeFOSAA	N/A	N/A	8.73	8.65	68		06/27/2022 15:40
13C8 PFOSA	N/A	N/A	11.32	11.25	15		06/27/2022 15:40
d5-EtFOSAA	N/A	N/A	9.03	8.95	99	R	06/27/2022 15:40
13C7 PFUdA	N/A	N/A	9.47	9.40	92		06/27/2022 15:40
13C2 PFDoA	N/A	N/A	10.12	10.05	58		06/27/2022 15:40
13C2 PFTeDA	N/A	N/A	11.39	11.30	10		06/27/2022 15:40
13C3 HFPO-DA	N/A	N/A	6.48	6.43	41		06/27/2022 15:40
d3-N-MeFOSA	N/A	N/A	13.21	13.16	34		06/27/2022 15:40

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB191-1	Total Amount Extracted	5.26g
Lab Sample ID	10610381016	Percent Moisture	10.558%
Lab File ID	Q220627A_024	Dry Weight Extracted	4.70g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:54	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.72	4.77	ND		06/27/2022 15:40
PFPeA	N/A	N/A	5.54	5.54	ND		06/27/2022 15:40
HFPO-DA	0.00	0.49	0.00	6.44	ND		06/27/2022 15:40
PFBS	0.36	0.33	6.44	6.40	ND		06/27/2022 15:40
PFHxA	0.07	0.07	6.22	6.17	ND		06/27/2022 15:40
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 15:40
PFPeS	0.46	0.44	7.19	7.18	ND		06/27/2022 15:40
PFHpA	0.55	0.43	6.88	6.81	ND		06/27/2022 15:40
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 15:40
PFHxS	0.34	0.33	7.88	7.82	24		06/27/2022 15:40
PFOA	0.37	0.29	7.52	7.44	70		06/27/2022 15:40
6:2 FTS	2.20	1.00	7.19	7.12	ND		06/27/2022 15:40
PFHpS	0.27	0.41	8.57	8.51	ND		06/27/2022 15:40
PFNA	0.22	0.23	8.17	8.10	10		06/27/2022 15:40
PFOSAm	N/A	N/A	11.33	11.26	ND		06/27/2022 15:40
PFOS	0.24	0.20	9.25	9.18	27		06/27/2022 15:40
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 15:40
PFDA	0.16	0.17	8.83	8.83	ND		06/27/2022 15:40
8:2 FTS	1.50	1.80	8.45	8.38	93		06/27/2022 15:40
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 15:40
PFNS	0.19	0.23	9.91	9.91	ND		06/27/2022 15:40
PFUnDA	0.16	0.18	9.48	9.40	19		06/27/2022 15:40
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 15:40
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 15:40
PFDS	0.31	0.26	10.55	10.47	ND		06/27/2022 15:40
PFDOA	0.19	0.19	10.13	10.05	ND		06/27/2022 15:40
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 15:40
PFTTrDA	0.21	0.22	10.77	10.69	ND		06/27/2022 15:40
PFTDA	0.00	0.17	0.00	11.30	ND		06/27/2022 15:40

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB193-1
 Lab Sample ID 10610381017
 Lab File ID Q220627A_028
 Matrix Soil
 Collected 05/25/2022 23:58
 Received 05/27/2022 17:19
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.18g
 Percent Moisture 8.0072%
 Dry Weight Extracted 4.77g
 Ical ID 220623A01
 CCal File Q220627A_020
 Ending CCal File Q220627A_034
 Blank File Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.025	1	375-22-4		06/27/2022 16:48
PFPeA	ND	0.10	0.10	0.028	1	2706-90-3		06/27/2022 16:48
HFPO-DA	ND	0.10	0.10	0.031	1	13252-13-6		06/27/2022 16:48
PFBS	ND	0.093	0.093	0.023	1	375-73-5		06/27/2022 16:48
PFHxA	0.12	0.10	0.10	0.031	1	307-24-4		06/27/2022 16:48
4:2 FTS	ND	0.098	0.098	0.033	1	757124-72-4		06/27/2022 16:48
PFPeS	ND	0.099	0.099	0.019	1	2706-91-4		06/27/2022 16:48
PFHpA	ND	0.10	0.10	0.024	1	375-85-9		06/27/2022 16:48
DONA	ND	0.099	0.099	0.040	1	919005-14-4		06/27/2022 16:48
PFHxS	0.70	0.095	0.095	0.023	1	355-46-4		06/27/2022 16:48
PFOA	0.14	0.10	0.10	0.024	1	335-67-1		06/27/2022 16:48
6:2 FTS	ND	0.100	0.100	0.034	1	27619-97-2		06/27/2022 16:48
PFHpS	ND	0.100	0.100	0.026	1	375-92-8		06/27/2022 16:48
PFNA	ND	0.10	0.10	0.030	1	375-95-1		06/27/2022 16:48
PFOSAm	ND	0.10	0.10	0.025	1	754-91-6		06/27/2022 16:48
PFOS	2.8	0.097	0.097	0.029	1	1763-23-1		06/27/2022 16:48
MeFOSA	ND	0.10	0.10	0.026	1	31506-32-8		06/27/2022 16:48
PFDA	ND	0.10	0.10	0.023	1	335-76-2		06/27/2022 16:48
8:2 FTS	0.12	0.10	0.10	0.027	1	39108-34-4		06/27/2022 16:48
9-CI-PF3ON	ND	0.098	0.098	0.015	1	756426-58-1		06/27/2022 16:48
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/27/2022 16:48
PFUnDA	ND	0.10	0.10	0.029	1	2058-94-8		06/27/2022 16:48
NMeFOSAA	ND	0.10	0.10	0.024	1	2355-31-9		06/27/2022 16:48
NEtFOSAA	ND	0.10	0.10	0.026	1	2991-50-6		06/27/2022 16:48
PFDS	ND	0.10	0.10	0.026	1	335-77-3		06/27/2022 16:48
PFDOA	ND	0.10	0.10	0.028	1	307-55-1		06/27/2022 16:48
11-CI-PF3OUdS	ND	0.099	0.099	0.017	1	763051-92-9		06/27/2022 16:48
PFTTrDA	ND	0.10	0.10	0.022	1	72629-94-8		06/27/2022 16:48
PFTDA	ND	0.10	0.10	0.034	1	376-06-7		06/27/2022 16:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB193-1	Total Amount Extracted	5.18g
Lab Sample ID	10610381017	Percent Moisture	8.0072%
Lab File ID	Q220627A_028	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:58	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	0.72	68	50-150		06/27/2022 16:48
13C4 PFOA	1.0	0.64	61	50-150		06/27/2022 16:48
13C2 PFDA	1.0	0.70	67	50-150		06/27/2022 16:48
13C4 PFOS	1.0	1.0	101	50-150		06/27/2022 16:48

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.58	56	50-150		06/27/2022 16:48
13C5 PFPeA	1.0	0.63	60	50-150		06/27/2022 16:48
13C3 PFBS	0.97	0.69	71	50-150		06/27/2022 16:48
13C2 4:2FTS	0.98	2.2	221	50-150	R	06/27/2022 16:48
13C5 PFHxA	1.0	0.52	50	50-150		06/27/2022 16:48
13C4 PFHpA	1.0	0.55	52	50-150		06/27/2022 16:48
13C3 PFHxS	0.99	0.72	73	50-150		06/27/2022 16:48
13C2 6:2FTS	0.99	3.3	336	50-150	R	06/27/2022 16:48
13C8 PFOA	1.0	0.67	64	50-150		06/27/2022 16:48
13C9 PFNA	1.0	0.62	59	50-150		06/27/2022 16:48
13C8 PFOS	1.0	0.70	70	50-150		06/27/2022 16:48
13C2 8:2FTS	1.0	3.9	392	50-150	R	06/27/2022 16:48
13C6 PFDA	1.0	0.68	65	50-150		06/27/2022 16:48
d3-MeFOSAA	1.0	1.1	108	50-150		06/27/2022 16:48
13C8 PFOSA	1.0	0.49	47	50-150	R	06/27/2022 16:48
d5-EtFOSAA	1.0	1.2	116	50-150		06/27/2022 16:48
13C7 PFUdA	1.0	0.76	72	50-150		06/27/2022 16:48
13C2 PFDoA	1.0	0.86	82	50-150		06/27/2022 16:48
13C2 PFTeDA	1.0	0.94	90	50-150		06/27/2022 16:48
13C3 HFPO-DA	1.0	0.48	46	50-150	R	06/27/2022 16:48
d3-N-MeFOSA	1.0	0.31	29	10-150		06/27/2022 16:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB193-1	Total Amount Extracted	5.18g
Lab Sample ID	10610381017	Percent Moisture	8.0072%
Lab File ID	Q220627A_028	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:58	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.20	6.16	54		06/27/2022 16:48
13C4 PFOA	N/A	N/A	7.50	7.50	10		06/27/2022 16:48
13C2 PFDA	N/A	N/A	8.80	8.74	48		06/27/2022 16:48
13C4 PFOS	N/A	N/A	9.21	9.23	12		06/27/2022 16:48

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.73	12		06/27/2022 16:48
13C5 PFPeA	N/A	N/A	5.52	5.53	68		06/27/2022 16:48
13C3 PFBS	N/A	N/A	6.42	6.39	20		06/27/2022 16:48
13C2 4:2FTS	N/A	N/A	5.92	5.90	15	R	06/27/2022 16:48
13C5 PFHxA	N/A	N/A	6.20	6.17	31		06/27/2022 16:48
13C4 PFHpA	N/A	N/A	6.86	6.83	86		06/27/2022 16:48
13C3 PFHxS	N/A	N/A	7.87	7.89	27		06/27/2022 16:48
13C2 6:2FTS	N/A	N/A	7.17	7.15	20	R	06/27/2022 16:48
13C8 PFOA	N/A	N/A	7.50	7.52	89		06/27/2022 16:48
13C9 PFNA	N/A	N/A	8.15	8.12	84		06/27/2022 16:48
13C8 PFOS	N/A	N/A	9.22	9.17	16		06/27/2022 16:48
13C2 8:2FTS	N/A	N/A	8.44	8.38	20	R	06/27/2022 16:48
13C6 PFDA	N/A	N/A	8.80	8.75	61		06/27/2022 16:48
d3-MeFOSAA	N/A	N/A	8.71	8.65	85		06/27/2022 16:48
13C8 PFOSA	N/A	N/A	11.32	11.25	11	R	06/27/2022 16:48
d5-EtFOSAA	N/A	N/A	9.02	8.95	54		06/27/2022 16:48
13C7 PFUdA	N/A	N/A	9.45	9.40	71		06/27/2022 16:48
13C2 PFDoA	N/A	N/A	10.11	10.05	35		06/27/2022 16:48
13C2 PFTeDA	N/A	N/A	11.38	11.30	74		06/27/2022 16:48
13C3 HFPO-DA	N/A	N/A	6.47	6.43	37	R	06/27/2022 16:48
d3-N-MeFOSA	N/A	N/A	13.20	13.16	20		06/27/2022 16:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB193-1	Total Amount Extracted	5.18g
Lab Sample ID	10610381017	Percent Moisture	8.0072%
Lab File ID	Q220627A_028	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:58	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.90	4.77	ND		06/27/2022 16:48
PFPeA	N/A	N/A	5.53	5.54	ND		06/27/2022 16:48
HFPO-DA	0.00	0.49	0.00	6.44	ND		06/27/2022 16:48
PFBS	0.25	0.33	6.43	6.40	ND		06/27/2022 16:48
PFHxA	0.08	0.07	6.21	6.17	22		06/27/2022 16:48
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 16:48
PFPeS	0.54	0.44	7.19	7.18	ND		06/27/2022 16:48
PFHpA	0.00	0.43	0.00	6.81	ND		06/27/2022 16:48
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 16:48
PFHxS	0.32	0.33	7.88	7.82	14		06/27/2022 16:48
PFOA	0.21	0.29	7.51	7.44	32		06/27/2022 16:48
6:2 FTS	1.90	1.00	7.18	7.12	ND		06/27/2022 16:48
PFHpS	0.39	0.41	8.57	8.51	ND		06/27/2022 16:48
PFNA	0.20	0.23	8.15	8.10	ND		06/27/2022 16:48
PFOSAm	N/A	N/A	11.33	11.26	ND		06/27/2022 16:48
PFOS	0.22	0.20	9.23	9.18	18		06/27/2022 16:48
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 16:48
PFDA	0.12	0.17	8.81	8.83	ND		06/27/2022 16:48
8:2 FTS	1.60	1.80	8.45	8.38	54		06/27/2022 16:48
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 16:48
PFNS	0.20	0.23	9.89	9.83	ND		06/27/2022 16:48
PFUnDA	0.14	0.18	9.46	9.40	ND		06/27/2022 16:48
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 16:48
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 16:48
PFDS	0.31	0.26	10.54	10.47	ND		06/27/2022 16:48
PFDOA	0.16	0.19	10.12	10.05	ND		06/27/2022 16:48
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 16:48
PFTrDA	0.18	0.22	10.75	10.69	ND		06/27/2022 16:48
PFTDA	0.00	0.17	0.00	11.30	ND		06/27/2022 16:48

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB180-4
 Lab Sample ID 10610381018
 Lab File ID Q220627A_029
 Matrix Soil
 Collected 05/25/2022 23:51
 Received 05/27/2022 17:19
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.09g
 Percent Moisture 11.3048%
 Dry Weight Extracted 4.52g
 Ical ID 220623A01
 CCal File Q220627A_020
 Ending CCal File Q220627A_034
 Blank File Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.026	1	375-22-4		06/27/2022 17:07
PFPeA	ND	0.11	0.11	0.029	1	2706-90-3		06/27/2022 17:07
HFPO-DA	ND	0.11	0.11	0.033	1	13252-13-6		06/27/2022 17:07
PFBS	ND	0.098	0.098	0.024	1	375-73-5		06/27/2022 17:07
PFHxA	ND	0.11	0.11	0.033	1	307-24-4		06/27/2022 17:07
4:2 FTS	ND	0.10	0.10	0.035	1	757124-72-4		06/27/2022 17:07
PFPeS	ND	0.10	0.10	0.021	1	2706-91-4		06/27/2022 17:07
PFHpA	ND	0.11	0.11	0.025	1	375-85-9		06/27/2022 17:07
DONA	ND	0.10	0.10	0.042	1	919005-14-4		06/27/2022 17:07
PFHxS	ND	0.10	0.10	0.025	1	355-46-4		06/27/2022 17:07
PFOA	ND	0.11	0.11	0.025	1	335-67-1		06/27/2022 17:07
6:2 FTS	ND	0.11	0.11	0.035	1	27619-97-2		06/27/2022 17:07
PFHpS	ND	0.11	0.11	0.028	1	375-92-8		06/27/2022 17:07
PFNA	ND	0.11	0.11	0.032	1	375-95-1		06/27/2022 17:07
PFOSAm	ND	0.11	0.11	0.026	1	754-91-6		06/27/2022 17:07
PFOS	1.5	0.10	0.10	0.031	1	1763-23-1		06/27/2022 17:07
MeFOSA	ND	0.11	0.11	0.028	1	31506-32-8		06/27/2022 17:07
PFDA	ND	0.11	0.11	0.024	1	335-76-2		06/27/2022 17:07
8:2 FTS	ND	0.11	0.11	0.029	1	39108-34-4		06/27/2022 17:07
9-CI-PF3ON	ND	0.10	0.10	0.016	1	756426-58-1		06/27/2022 17:07
PFNS	ND	0.11	0.11	0.020	1	68259-12-1		06/27/2022 17:07
PFUnDA	0.12	0.11	0.11	0.031	1	2058-94-8		06/27/2022 17:07
NMeFOSAA	ND	0.11	0.11	0.026	1	2355-31-9		06/27/2022 17:07
NEtFOSAA	ND	0.11	0.11	0.027	1	2991-50-6		06/27/2022 17:07
PFDS	ND	0.11	0.11	0.028	1	335-77-3		06/27/2022 17:07
PFDOA	ND	0.11	0.11	0.029	1	307-55-1		06/27/2022 17:07
11-CI-PF3OUdS	ND	0.10	0.10	0.018	1	763051-92-9		06/27/2022 17:07
PFTTrDA	ND	0.11	0.11	0.024	1	72629-94-8		06/27/2022 17:07
PFTDA	ND	0.11	0.11	0.036	1	376-06-7		06/27/2022 17:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB180-4	Total Amount Extracted	5.09g
Lab Sample ID	10610381018	Percent Moisture	11.3048%
Lab File ID	Q220627A_029	Dry Weight Extracted	4.52g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:51	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.1	101	50-150		06/27/2022 17:07
13C4 PFOA	1.1	1.3	118	50-150		06/27/2022 17:07
13C2 PFDA	1.1	1.1	97	50-150		06/27/2022 17:07
13C4 PFOS	1.1	1.3	122	50-150		06/27/2022 17:07

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.92	83	50-150		06/27/2022 17:07
13C5 PFPeA	1.1	0.92	83	50-150		06/27/2022 17:07
13C3 PFBS	1.0	0.87	84	50-150		06/27/2022 17:07
13C2 4:2FTS	1.0	1.4	139	50-150		06/27/2022 17:07
13C5 PFHxA	1.1	0.96	87	50-150		06/27/2022 17:07
13C4 PFHpA	1.1	0.83	75	50-150		06/27/2022 17:07
13C3 PFHxS	1.0	0.94	90	50-150		06/27/2022 17:07
13C2 6:2FTS	1.1	1.7	159	50-150	R	06/27/2022 17:07
13C8 PFOA	1.1	1.3	113	50-150		06/27/2022 17:07
13C9 PFNA	1.1	1.0	91	50-150		06/27/2022 17:07
13C8 PFOS	1.1	0.88	83	50-150		06/27/2022 17:07
13C2 8:2FTS	1.1	3.0	284	50-150	R	06/27/2022 17:07
13C6 PFDA	1.1	1.0	91	50-150		06/27/2022 17:07
d3-MeFOSAA	1.1	1.8	167	50-150	R	06/27/2022 17:07
13C8 PFOSA	1.1	0.48	44	50-150	R	06/27/2022 17:07
d5-EtFOSAA	1.1	2.1	186	50-150	R	06/27/2022 17:07
13C7 PFUdA	1.1	1.2	112	50-150		06/27/2022 17:07
13C2 PFDoA	1.1	1.3	118	50-150		06/27/2022 17:07
13C2 PFTeDA	1.1	1.3	114	50-150		06/27/2022 17:07
13C3 HFPO-DA	1.1	0.71	64	50-150		06/27/2022 17:07
d3-N-MeFOSA	1.1	0.0065	1	10-150	R	06/27/2022 17:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB180-4	Total Amount Extracted	5.09g
Lab Sample ID	10610381018	Percent Moisture	11.3048%
Lab File ID	Q220627A_029	Dry Weight Extracted	4.52g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:51	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.17	6.16	80		06/27/2022 17:07
13C4 PFOA	N/A	N/A	7.49	7.50	21		06/27/2022 17:07
13C2 PFDA	N/A	N/A	8.80	8.74	14		06/27/2022 17:07
13C4 PFOS	N/A	N/A	9.22	9.23	79		06/27/2022 17:07

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.70	4.73	21		06/27/2022 17:07
13C5 PFPeA	N/A	N/A	5.50	5.53	13		06/27/2022 17:07
13C3 PFBS	N/A	N/A	6.39	6.39	88		06/27/2022 17:07
13C2 4:2FTS	N/A	N/A	5.90	5.90	43		06/27/2022 17:07
13C5 PFHxA	N/A	N/A	6.18	6.17	11		06/27/2022 17:07
13C4 PFHpA	N/A	N/A	6.84	6.83	86		06/27/2022 17:07
13C3 PFHxS	N/A	N/A	7.86	7.89	12		06/27/2022 17:07
13C2 6:2FTS	N/A	N/A	7.16	7.15	50	R	06/27/2022 17:07
13C8 PFOA	N/A	N/A	7.49	7.52	20		06/27/2022 17:07
13C9 PFNA	N/A	N/A	8.15	8.12	13		06/27/2022 17:07
13C8 PFOS	N/A	N/A	9.22	9.17	79		06/27/2022 17:07
13C2 8:2FTS	N/A	N/A	8.44	8.38	90	R	06/27/2022 17:07
13C6 PFDA	N/A	N/A	8.80	8.75	76		06/27/2022 17:07
d3-MeFOSAA	N/A	N/A	8.71	8.65	11	R	06/27/2022 17:07
13C8 PFOSA	N/A	N/A	11.31	11.25	88	R	06/27/2022 17:07
d5-EtFOSAA	N/A	N/A	9.02	8.95	76	R	06/27/2022 17:07
13C7 PFUdA	N/A	N/A	9.45	9.40	14		06/27/2022 17:07
13C2 PFDaA	N/A	N/A	10.11	10.05	50		06/27/2022 17:07
13C2 PFTeDA	N/A	N/A	11.37	11.30	10		06/27/2022 17:07
13C3 HFPO-DA	N/A	N/A	6.45	6.43	37		06/27/2022 17:07
d3-N-MeFOSA	N/A	N/A	13.19	13.16	24	R	06/27/2022 17:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB180-4	Total Amount Extracted	5.09g
Lab Sample ID	10610381018	Percent Moisture	11.3048%
Lab File ID	Q220627A_029	Dry Weight Extracted	4.52g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:51	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.75	4.77	ND		06/27/2022 17:07
PFPeA	N/A	N/A	5.51	5.54	ND		06/27/2022 17:07
HFPO-DA	0.00	0.49	0.00	6.44	ND		06/27/2022 17:07
PFBS	0.27	0.33	6.41	6.40	ND		06/27/2022 17:07
PFHxA	0.00	0.07	0.00	6.17	ND		06/27/2022 17:07
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 17:07
PFPeS	0.20	0.44	7.16	7.18	ND		06/27/2022 17:07
PFHpA	0.45	0.43	6.85	6.81	ND		06/27/2022 17:07
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 17:07
PFHxS	0.34	0.33	7.87	7.82	ND		06/27/2022 17:07
PFOA	0.39	0.29	7.50	7.44	ND		06/27/2022 17:07
6:2 FTS	0.76	1.00	7.17	7.12	ND		06/27/2022 17:07
PFHpS	0.45	0.41	8.56	8.51	ND		06/27/2022 17:07
PFNA	0.18	0.23	8.16	8.10	ND		06/27/2022 17:07
PFOSAm	N/A	N/A	11.31	11.26	ND		06/27/2022 17:07
PFOS	0.23	0.20	9.24	9.18	55		06/27/2022 17:07
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 17:07
PFDA	0.18	0.17	8.81	8.83	ND		06/27/2022 17:07
8:2 FTS	1.90	1.80	8.45	8.38	ND		06/27/2022 17:07
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 17:07
PFNS	0.24	0.23	9.89	9.83	ND		06/27/2022 17:07
PFUnDA	0.13	0.18	9.46	9.40	21		06/27/2022 17:07
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 17:07
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 17:07
PFDS	0.00	0.26	0.00	10.47	ND		06/27/2022 17:07
PFDOA	0.00	0.19	0.00	10.05	ND		06/27/2022 17:07
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 17:07
PFTrDA	0.00	0.22	0.00	10.69	ND		06/27/2022 17:07
PFTDA	0.00	0.17	0.00	11.30	ND		06/27/2022 17:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB180-2	Total Amount Extracted	5.27g
Lab Sample ID	10610381019	Percent Moisture	11.6808%
Lab File ID	Q220627A_030	Dry Weight Extracted	4.66g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:47	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.025	1	375-22-4		06/27/2022 17:26
PFPeA	ND	0.11	0.11	0.028	1	2706-90-3		06/27/2022 17:26
HFPO-DA	ND	0.11	0.11	0.032	1	13252-13-6		06/27/2022 17:26
PFBS	ND	0.095	0.095	0.024	1	375-73-5		06/27/2022 17:26
PFHxA	ND	0.11	0.11	0.032	1	307-24-4		06/27/2022 17:26
4:2 FTS	ND	0.10	0.10	0.034	1	757124-72-4		06/27/2022 17:26
PFPeS	ND	0.10	0.10	0.020	1	2706-91-4		06/27/2022 17:26
PFHpA	ND	0.11	0.11	0.024	1	375-85-9		06/27/2022 17:26
DONA	ND	0.10	0.10	0.041	1	919005-14-4		06/27/2022 17:26
PFHxS	ND	0.098	0.098	0.024	1	355-46-4		06/27/2022 17:26
PFOA	ND	0.11	0.11	0.024	1	335-67-1		06/27/2022 17:26
6:2 FTS	ND	0.10	0.10	0.034	1	27619-97-2		06/27/2022 17:26
PFHpS	ND	0.10	0.10	0.027	1	375-92-8		06/27/2022 17:26
PFNA	ND	0.11	0.11	0.031	1	375-95-1		06/27/2022 17:26
PFOSAm	ND	0.11	0.11	0.025	1	754-91-6		06/27/2022 17:26
PFOS	1.4	0.099	0.099	0.030	1	1763-23-1		06/27/2022 17:26
MeFOSA	ND	0.11	0.11	0.027	1	31506-32-8		06/27/2022 17:26
PFDA	ND	0.11	0.11	0.023	1	335-76-2		06/27/2022 17:26
8:2 FTS	ND	0.10	0.10	0.028	1	39108-34-4		06/27/2022 17:26
9-CI-PF3ON	ND	0.10	0.10	0.016	1	756426-58-1		06/27/2022 17:26
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/27/2022 17:26
PFUnDA	ND	0.11	0.11	0.030	1	2058-94-8		06/27/2022 17:26
NMeFOSAA	ND	0.11	0.11	0.025	1	2355-31-9		06/27/2022 17:26
NEtFOSAA	ND	0.11	0.11	0.027	1	2991-50-6		06/27/2022 17:26
PFDS	ND	0.10	0.10	0.027	1	335-77-3		06/27/2022 17:26
PFDOA	ND	0.11	0.11	0.029	1	307-55-1		06/27/2022 17:26
11-CI-PF3OUdS	ND	0.10	0.10	0.017	1	763051-92-9		06/27/2022 17:26
PFTTrDA	ND	0.11	0.11	0.023	1	72629-94-8		06/27/2022 17:26
PFTDA	ND	0.11	0.11	0.034	1	376-06-7		06/27/2022 17:26

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB180-2	Total Amount Extracted	5.27g
Lab Sample ID	10610381019	Percent Moisture	11.6808%
Lab File ID	Q220627A_030	Dry Weight Extracted	4.66g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:47	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.1	105	50-150		06/27/2022 17:26
13C4 PFOA	1.1	1.2	116	50-150		06/27/2022 17:26
13C2 PFDA	1.1	0.97	90	50-150		06/27/2022 17:26
13C4 PFOS	1.0	1.3	129	50-150		06/27/2022 17:26

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.84	78	50-150		06/27/2022 17:26
13C5 PFPeA	1.1	0.91	85	50-150		06/27/2022 17:26
13C3 PFBS	1.00	0.84	84	50-150		06/27/2022 17:26
13C2 4:2FTS	1.0	1.3	130	50-150		06/27/2022 17:26
13C5 PFHxA	1.1	0.98	91	50-150		06/27/2022 17:26
13C4 PFHpA	1.1	0.97	91	50-150		06/27/2022 17:26
13C3 PFHxS	1.0	0.94	92	50-150		06/27/2022 17:26
13C2 6:2FTS	1.0	2.0	201	50-150	R	06/27/2022 17:26
13C8 PFOA	1.1	1.2	111	50-150		06/27/2022 17:26
13C9 PFNA	1.1	1.1	100	50-150		06/27/2022 17:26
13C8 PFOS	1.0	1.0	97	50-150		06/27/2022 17:26
13C2 8:2FTS	1.0	3.0	289	50-150	R	06/27/2022 17:26
13C6 PFDA	1.1	1.1	100	50-150		06/27/2022 17:26
d3-MeFOSAA	1.1	1.6	151	50-150	R	06/27/2022 17:26
13C8 PFOSA	1.1	0.73	68	50-150		06/27/2022 17:26
d5-EtFOSAA	1.1	1.9	176	50-150	R	06/27/2022 17:26
13C7 PFUdA	1.1	1.1	104	50-150		06/27/2022 17:26
13C2 PFDoA	1.1	1.0	94	50-150		06/27/2022 17:26
13C2 PFTeDA	1.1	1.1	106	50-150		06/27/2022 17:26
13C3 HFPO-DA	1.1	0.84	79	50-150		06/27/2022 17:26
d3-N-MeFOSA	1.1	0.019	2	10-150	R	06/27/2022 17:26

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Client Sample ID	SB180-2	Total Amount Extracted	5.27g
Lab Sample ID	10610381019	Percent Moisture	11.6808%
Lab File ID	Q220627A_030	Dry Weight Extracted	4.66g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:47	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.20	6.16	10		06/27/2022 17:26
13C4 PFOA	N/A	N/A	7.50	7.50	12		06/27/2022 17:26
13C2 PFDA	N/A	N/A	8.79	8.74	10		06/27/2022 17:26
13C4 PFOS	N/A	N/A	9.20	9.23	11		06/27/2022 17:26

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.73	18		06/27/2022 17:26
13C5 PFPeA	N/A	N/A	5.52	5.53	13		06/27/2022 17:26
13C3 PFBS	N/A	N/A	6.42	6.39	95		06/27/2022 17:26
13C2 4:2FTS	N/A	N/A	5.92	5.90	38		06/27/2022 17:26
13C5 PFHxA	N/A	N/A	6.20	6.17	95		06/27/2022 17:26
13C4 PFHpA	N/A	N/A	6.85	6.83	10		06/27/2022 17:26
13C3 PFHxS	N/A	N/A	7.86	7.89	15		06/27/2022 17:26
13C2 6:2FTS	N/A	N/A	7.17	7.15	55	R	06/27/2022 17:26
13C8 PFOA	N/A	N/A	7.50	7.52	14		06/27/2022 17:26
13C9 PFNA	N/A	N/A	8.15	8.12	18		06/27/2022 17:26
13C8 PFOS	N/A	N/A	9.21	9.17	78		06/27/2022 17:26
13C2 8:2FTS	N/A	N/A	8.43	8.38	14	R	06/27/2022 17:26
13C6 PFDA	N/A	N/A	8.79	8.75	18		06/27/2022 17:26
d3-MeFOSAA	N/A	N/A	8.70	8.65	15	R	06/27/2022 17:26
13C8 PFOSA	N/A	N/A	11.30	11.25	11		06/27/2022 17:26
d5-EtFOSAA	N/A	N/A	9.00	8.95	34	R	06/27/2022 17:26
13C7 PFUdA	N/A	N/A	9.44	9.40	23		06/27/2022 17:26
13C2 PFDoA	N/A	N/A	10.10	10.05	60		06/27/2022 17:26
13C2 PFTeDA	N/A	N/A	11.37	11.30	11		06/27/2022 17:26
13C3 HFPO-DA	N/A	N/A	6.47	6.43	45		06/27/2022 17:26
d3-N-MeFOSA	N/A	N/A	13.19	13.16	78	R	06/27/2022 17:26

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB180-2	Total Amount Extracted	5.27g
Lab Sample ID	10610381019	Percent Moisture	11.6808%
Lab File ID	Q220627A_030	Dry Weight Extracted	4.66g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 23:47	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.76	4.77	ND		06/27/2022 17:26
PFPeA	N/A	N/A	5.52	5.54	ND		06/27/2022 17:26
HFPO-DA	0.00	0.49	0.00	6.44	ND		06/27/2022 17:26
PFBS	0.35	0.33	6.42	6.40	ND		06/27/2022 17:26
PFHxA	0.07	0.07	6.20	6.17	ND		06/27/2022 17:26
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 17:26
PFPeS	0.25	0.44	7.18	7.18	ND		06/27/2022 17:26
PFHpA	0.55	0.43	6.86	6.81	ND		06/27/2022 17:26
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 17:26
PFHxS	0.44	0.33	7.87	7.82	ND		06/27/2022 17:26
PFOA	0.39	0.29	7.51	7.44	ND		06/27/2022 17:26
6:2 FTS	2.20	1.00	7.17	7.12	ND		06/27/2022 17:26
PFHpS	0.36	0.41	8.56	8.51	ND		06/27/2022 17:26
PFNA	0.23	0.23	8.15	8.10	ND		06/27/2022 17:26
PFOSAm	N/A	N/A	11.31	11.26	ND		06/27/2022 17:26
PFOS	0.25	0.20	9.22	9.18	48		06/27/2022 17:26
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 17:26
PFDA	0.14	0.17	8.81	8.83	ND		06/27/2022 17:26
8:2 FTS	1.70	1.80	8.44	8.38	ND		06/27/2022 17:26
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 17:26
PFNS	0.24	0.23	9.88	9.83	ND		06/27/2022 17:26
PFUnDA	0.09	0.18	9.45	9.40	ND		06/27/2022 17:26
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 17:26
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 17:26
PFDS	0.00	0.26	0.00	10.47	ND		06/27/2022 17:26
PFDOA	0.00	0.19	0.00	10.05	ND		06/27/2022 17:26
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 17:26
PFTrDA	0.00	0.22	0.00	10.69	ND		06/27/2022 17:26
PFTDA	0.00	0.17	0.00	11.30	ND		06/27/2022 17:26

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB190-1
 Lab Sample ID 10610381020
 Lab File ID Q220627A_031
 Matrix Soil
 Collected 05/25/2022 00:01
 Received 05/27/2022 17:19
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.02g
 Percent Moisture 4.9411%
 Dry Weight Extracted 4.77g
 Ical ID 220623A01
 CCal File Q220627A_020
 Ending CCal File Q220627A_034
 Blank File Q220623C_015

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.025	1	375-22-4		06/27/2022 17:44
PFPeA	ND	0.10	0.10	0.028	1	2706-90-3		06/27/2022 17:44
HFPO-DA	ND	0.10	0.10	0.031	1	13252-13-6		06/27/2022 17:44
PFBS	ND	0.093	0.093	0.023	1	375-73-5		06/27/2022 17:44
PFHxA	0.15	0.10	0.10	0.031	1	307-24-4		06/27/2022 17:44
4:2 FTS	ND	0.098	0.098	0.033	1	757124-72-4		06/27/2022 17:44
PFPeS	ND	0.098	0.098	0.019	1	2706-91-4		06/27/2022 17:44
PFHpA	ND	0.10	0.10	0.024	1	375-85-9		06/27/2022 17:44
DONA	ND	0.099	0.099	0.040	1	919005-14-4		06/27/2022 17:44
PFHxS	1.3	0.095	0.095	0.023	1	355-46-4		06/27/2022 17:44
PFOA	ND	0.10	0.10	0.024	1	335-67-1		06/27/2022 17:44
6:2 FTS	ND	0.099	0.099	0.034	1	27619-97-2		06/27/2022 17:44
PFHpS	ND	0.099	0.099	0.026	1	375-92-8		06/27/2022 17:44
PFNA	0.16	0.10	0.10	0.030	1	375-95-1		06/27/2022 17:44
PFOSAm	ND	0.10	0.10	0.025	1	754-91-6		06/27/2022 17:44
PFOS	4.7	0.097	0.097	0.029	1	1763-23-1		06/27/2022 17:44
MeFOSA	ND	0.10	0.10	0.026	1	31506-32-8		06/27/2022 17:44
PFDA	ND	0.10	0.10	0.023	1	335-76-2		06/27/2022 17:44
8:2 FTS	0.12	0.10	0.10	0.027	1	39108-34-4		06/27/2022 17:44
9-CI-PF3ON	ND	0.098	0.098	0.015	1	756426-58-1		06/27/2022 17:44
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		06/27/2022 17:44
PFUnDA	ND	0.10	0.10	0.029	1	2058-94-8		06/27/2022 17:44
NMeFOSAA	ND	0.10	0.10	0.024	1	2355-31-9		06/27/2022 17:44
NEtFOSAA	ND	0.10	0.10	0.026	1	2991-50-6		06/27/2022 17:44
PFDS	ND	0.10	0.10	0.026	1	335-77-3		06/27/2022 17:44
PFDOA	ND	0.10	0.10	0.028	1	307-55-1		06/27/2022 17:44
11-CI-PF3OUdS	ND	0.099	0.099	0.017	1	763051-92-9		06/27/2022 17:44
PFTTrDA	ND	0.10	0.10	0.022	1	72629-94-8		06/27/2022 17:44
PFTDA	ND	0.10	0.10	0.034	1	376-06-7		06/27/2022 17:44

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB190-1	Total Amount Extracted	5.02g
Lab Sample ID	10610381020	Percent Moisture	4.9411%
Lab File ID	Q220627A_031	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 00:01	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	0.79	75	50-150		06/27/2022 17:44
13C4 PFOA	1.0	0.64	61	50-150		06/27/2022 17:44
13C2 PFDA	1.0	0.65	62	50-150		06/27/2022 17:44
13C4 PFOS	1.0	1.1	105	50-150		06/27/2022 17:44

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.71	68	50-150		06/27/2022 17:44
13C5 PFPeA	1.0	0.61	59	50-150		06/27/2022 17:44
13C3 PFBS	0.97	0.73	75	50-150		06/27/2022 17:44
13C2 4:2FTS	0.98	2.6	267	50-150	R	06/27/2022 17:44
13C5 PFHxA	1.0	0.56	54	50-150		06/27/2022 17:44
13C4 PFHpA	1.0	0.58	55	50-150		06/27/2022 17:44
13C3 PFHxS	0.99	0.71	72	50-150		06/27/2022 17:44
13C2 6:2FTS	0.99	3.6	364	50-150	R	06/27/2022 17:44
13C8 PFOA	1.0	0.63	60	50-150		06/27/2022 17:44
13C9 PFNA	1.0	0.61	58	50-150		06/27/2022 17:44
13C8 PFOS	1.0	0.67	67	50-150		06/27/2022 17:44
13C2 8:2FTS	1.0	3.7	367	50-150	R	06/27/2022 17:44
13C6 PFDA	1.0	0.68	65	50-150		06/27/2022 17:44
d3-MeFOSAA	1.0	0.98	94	50-150		06/27/2022 17:44
13C8 PFOSA	1.0	0.43	41	50-150	R	06/27/2022 17:44
d5-EtFOSAA	1.0	1.1	109	50-150		06/27/2022 17:44
13C7 PFUdA	1.0	0.76	73	50-150		06/27/2022 17:44
13C2 PFDoA	1.0	0.72	68	50-150		06/27/2022 17:44
13C2 PFTeDA	1.0	0.85	81	50-150		06/27/2022 17:44
13C3 HFPO-DA	1.0	0.54	52	50-150		06/27/2022 17:44
d3-N-MeFOSA	1.0	0.26	25	10-150		06/27/2022 17:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB190-1	Total Amount Extracted	5.02g
Lab Sample ID	10610381020	Percent Moisture	4.9411%
Lab File ID	Q220627A_031	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 00:01	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	50		06/27/2022 17:44
13C4 PFOA	N/A	N/A	7.49	7.50	95		06/27/2022 17:44
13C2 PFDA	N/A	N/A	8.79	8.74	55		06/27/2022 17:44
13C4 PFOS	N/A	N/A	9.21	9.23	16		06/27/2022 17:44

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.70	4.73	15		06/27/2022 17:44
13C5 PFPeA	N/A	N/A	5.51	5.53	66		06/27/2022 17:44
13C3 PFBS	N/A	N/A	6.41	6.39	22		06/27/2022 17:44
13C2 4:2FTS	N/A	N/A	5.91	5.90	21	R	06/27/2022 17:44
13C5 PFHxA	N/A	N/A	6.19	6.17	35		06/27/2022 17:44
13C4 PFHpA	N/A	N/A	6.85	6.83	73		06/27/2022 17:44
13C3 PFHxS	N/A	N/A	7.86	7.89	24		06/27/2022 17:44
13C2 6:2FTS	N/A	N/A	7.17	7.15	13	R	06/27/2022 17:44
13C8 PFOA	N/A	N/A	7.49	7.52	82		06/27/2022 17:44
13C9 PFNA	N/A	N/A	8.14	8.12	65		06/27/2022 17:44
13C8 PFOS	N/A	N/A	9.21	9.17	11		06/27/2022 17:44
13C2 8:2FTS	N/A	N/A	8.43	8.38	18	R	06/27/2022 17:44
13C6 PFDA	N/A	N/A	8.79	8.75	59		06/27/2022 17:44
d3-MeFOSAA	N/A	N/A	8.70	8.65	53		06/27/2022 17:44
13C8 PFOSA	N/A	N/A	11.31	11.25	10	R	06/27/2022 17:44
d5-EtFOSAA	N/A	N/A	9.00	8.95	66		06/27/2022 17:44
13C7 PFUdA	N/A	N/A	9.45	9.40	62		06/27/2022 17:44
13C2 PFDoA	N/A	N/A	10.10	10.05	33		06/27/2022 17:44
13C2 PFTeDA	N/A	N/A	11.37	11.30	59		06/27/2022 17:44
13C3 HFPO-DA	N/A	N/A	6.46	6.43	52		06/27/2022 17:44
d3-N-MeFOSA	N/A	N/A	13.20	13.16	18		06/27/2022 17:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB190-1	Total Amount Extracted	5.02g
Lab Sample ID	10610381020	Percent Moisture	4.9411%
Lab File ID	Q220627A_031	Dry Weight Extracted	4.77g
Matrix	Soil	Ical ID	220623A01
Collected	05/25/2022 00:01	CCal File	Q220627A_020
Received	05/27/2022 17:19	Ending CCal File	Q220627A_034
Extraction Date	06/20/2022 18:18	Blank File	Q220623C_015

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.89	4.77	ND		06/27/2022 17:44
PFPeA	N/A	N/A	5.51	5.54	ND		06/27/2022 17:44
HFPO-DA	0.00	0.49	0.00	6.44	ND		06/27/2022 17:44
PFBS	0.36	0.33	6.42	6.40	ND		06/27/2022 17:44
PFHxA	0.05	0.07	6.20	6.17	22		06/27/2022 17:44
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/27/2022 17:44
PFPeS	0.37	0.44	7.16	7.18	ND		06/27/2022 17:44
PFHpA	0.37	0.43	6.85	6.81	ND		06/27/2022 17:44
DONA	0.00	0.44	0.00	7.04	ND		06/27/2022 17:44
PFHxS	0.27	0.33	7.87	7.82	20		06/27/2022 17:44
PFOA	0.32	0.29	7.50	7.44	ND		06/27/2022 17:44
6:2 FTS	1.30	1.00	7.17	7.12	ND		06/27/2022 17:44
PFHpS	0.39	0.41	8.55	8.51	ND		06/27/2022 17:44
PFNA	0.24	0.23	8.15	8.10	51		06/27/2022 17:44
PFOSAm	N/A	N/A	11.32	11.26	ND		06/27/2022 17:44
PFOS	0.24	0.20	9.23	9.18	17		06/27/2022 17:44
MeFOSA	0.00	0.48	0.00	13.17	ND		06/27/2022 17:44
PFDA	0.15	0.17	8.80	8.83	ND		06/27/2022 17:44
8:2 FTS	1.60	1.80	8.44	8.38	95		06/27/2022 17:44
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/27/2022 17:44
PFNS	0.37	0.23	9.88	9.83	ND		06/27/2022 17:44
PFUnDA	0.15	0.18	9.45	9.40	ND		06/27/2022 17:44
NMeFOSAA	0.00	0.71	0.00	8.66	ND		06/27/2022 17:44
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/27/2022 17:44
PFDS	0.34	0.26	10.53	10.47	ND		06/27/2022 17:44
PFDOA	0.13	0.19	10.10	10.05	ND		06/27/2022 17:44
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/27/2022 17:44
PFTrDA	0.18	0.22	10.75	10.69	ND		06/27/2022 17:44
PFTDA	0.14	0.17	11.38	11.30	ND		06/27/2022 17:44

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIR
 Lab Sample ID BLANK-99485
 Lab File ID B220623A_005
 Matrix Soil
 Collected 06/14/2022 09:29
 Received 06/14/2022 09:29
 Extraction Date 06/16/2022 12:56

Total Amount Extracted 5.00g
 Ical ID 220621B02
 CCal File B220623A_003
 Ending CCal File B220623A_015
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.024	1	375-22-4		06/23/2022 15:55
PFPeA	ND	0.10	0.10	0.026	1	2706-90-3		06/23/2022 15:55
HFPO-DA	ND	0.10	0.10	0.030	1	13252-13-6		06/23/2022 15:55
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/23/2022 15:55
PFHxA	ND	0.10	0.10	0.030	1	307-24-4		06/23/2022 15:55
4:2 FTS	ND	0.094	0.094	0.032	1	757124-72-4		06/23/2022 15:55
PFPeS	ND	0.094	0.094	0.019	1	2706-91-4		06/23/2022 15:55
PFHpA	ND	0.10	0.10	0.022	1	375-85-9		06/23/2022 15:55
DONA	ND	0.095	0.095	0.038	1	919005-14-4		06/23/2022 15:55
PFHxS	ND	0.091	0.091	0.022	1	355-46-4		06/23/2022 15:55
PFOA	ND	0.10	0.10	0.023	1	335-67-1		06/23/2022 15:55
6:2 FTS	ND	0.095	0.095	0.032	1	27619-97-2		06/23/2022 15:55
PFHpS	ND	0.095	0.095	0.025	1	375-92-8		06/23/2022 15:55
PFNA	ND	0.10	0.10	0.029	1	375-95-1		06/23/2022 15:55
PFOSAm	ND	0.10	0.10	0.023	1	754-91-6		06/23/2022 15:55
PFOS	ND	0.092	0.092	0.028	1	1763-23-1		06/23/2022 15:55
MeFOSA	ND	0.10	0.10	0.025	1	31506-32-8		06/23/2022 15:55
PFDA	ND	0.10	0.10	0.022	1	335-76-2		06/23/2022 15:55
8:2 FTS	ND	0.096	0.096	0.026	1	39108-34-4		06/23/2022 15:55
9-CI-PF3ON	ND	0.093	0.093	0.015	1	756426-58-1		06/23/2022 15:55
PFNS	ND	0.096	0.096	0.018	1	68259-12-1		06/23/2022 15:55
PFUnDA	ND	0.10	0.10	0.028	1	2058-94-8		06/23/2022 15:55
NMeFOSAA	ND	0.10	0.10	0.023	1	2355-31-9		06/23/2022 15:55
NEtFOSAA	ND	0.10	0.10	0.025	1	2991-50-6		06/23/2022 15:55
PFDS	ND	0.096	0.096	0.025	1	335-77-3		06/23/2022 15:55
PFDOA	ND	0.10	0.10	0.027	1	307-55-1		06/23/2022 15:55
11-CI-PF3OUdS	ND	0.094	0.094	0.016	1	763051-92-9		06/23/2022 15:55
PFTTrDA	ND	0.10	0.10	0.021	1	72629-94-8		06/23/2022 15:55
PFTDA	ND	0.10	0.10	0.032	1	376-06-7		06/23/2022 15:55

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKIR	Total Amount Extracted	5.00g
Lab Sample ID	BLANK-99485	Ical ID	220621B02
Lab File ID	B220623A_005	CCal File	B220623A_003
Matrix	Soil	Ending CCal File	B220623A_015
Collected	06/14/2022 09:29	Blank File	
Received	06/14/2022 09:29		
Extraction Date	06/16/2022 12:56		

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	1.1	112	50-150		06/23/2022 15:55
13C4 PFOA	1.0	1.0	102	50-150		06/23/2022 15:55
13C2 PFDA	1.0	1.1	106	50-150		06/23/2022 15:55
13C4 PFOS	0.96	1.0	110	50-150		06/23/2022 15:55

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	1.0	102	50-150		06/23/2022 15:55
13C5 PFPeA	1.0	1.00	100	50-150		06/23/2022 15:55
13C3 PFBS	0.93	0.90	97	50-150		06/23/2022 15:55
13C2 4:2FTS	0.94	0.89	95	50-150		06/23/2022 15:55
13C5 PFHxA	1.0	0.96	96	50-150		06/23/2022 15:55
13C4 PFHpA	1.0	0.96	96	50-150		06/23/2022 15:55
13C3 PFHxS	0.95	0.91	96	50-150		06/23/2022 15:55
13C2 6:2FTS	0.95	0.83	88	50-150		06/23/2022 15:55
13C8 PFOA	1.0	1.1	108	50-150		06/23/2022 15:55
13C9 PFNA	1.0	1.00	100	50-150		06/23/2022 15:55
13C8 PFOS	0.96	0.94	98	50-150		06/23/2022 15:55
13C2 8:2FTS	0.96	0.99	104	50-150		06/23/2022 15:55
13C6 PFDA	1.0	1.0	104	50-150		06/23/2022 15:55
d3-MeFOSAA	1.0	0.95	95	50-150		06/23/2022 15:55
13C8 PFOSA	1.0	0.98	98	50-150		06/23/2022 15:55
d5-EtFOSAA	1.0	0.97	97	50-150		06/23/2022 15:55
13C7 PFUdA	1.0	0.98	98	50-150		06/23/2022 15:55
13C2 PFDoA	1.0	0.94	94	50-150		06/23/2022 15:55
13C2 PFTeDA	1.0	1.0	102	50-150		06/23/2022 15:55
13C3 HFPO-DA	1.0	0.98	98	50-150		06/23/2022 15:55
d3-N-MeFOSA	1.0	0.87	87	10-150		06/23/2022 15:55

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKIR	Total Amount Extracted	5.00g
Lab Sample ID	BLANK-99485	Ical ID	220621B02
Lab File ID	B220623A_005	CCal File	B220623A_003
Matrix	Soil	Ending CCal File	B220623A_015
Collected	06/14/2022 09:29	Blank File	
Received	06/14/2022 09:29		
Extraction Date	06/16/2022 12:56		

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.81	19		06/23/2022 15:55
13C4 PFOA	N/A	N/A	7.18	7.17	26		06/23/2022 15:55
13C2 PFDA	N/A	N/A	8.56	8.54	24		06/23/2022 15:55
13C4 PFOS	N/A	N/A	9.04	9.01	29		06/23/2022 15:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.32	30		06/23/2022 15:55
13C5 PFPeA	N/A	N/A	5.13	5.12	22		06/23/2022 15:55
13C3 PFBS	N/A	N/A	6.08	6.06	34		06/23/2022 15:55
13C2 4:2FTS	N/A	N/A	5.54	5.52	46		06/23/2022 15:55
13C5 PFHxA	N/A	N/A	5.82	5.81	18		06/23/2022 15:55
13C4 PFHpA	N/A	N/A	6.50	6.49	19		06/23/2022 15:55
13C3 PFHxS	N/A	N/A	7.60	7.59	21		06/23/2022 15:55
13C2 6:2FTS	N/A	N/A	6.83	6.82	31		06/23/2022 15:55
13C8 PFOA	N/A	N/A	7.18	7.17	25		06/23/2022 15:55
13C9 PFNA	N/A	N/A	7.87	7.85	21		06/23/2022 15:55
13C8 PFOS	N/A	N/A	9.04	9.01	31		06/23/2022 15:55
13C2 8:2FTS	N/A	N/A	8.16	8.15	84		06/23/2022 15:55
13C6 PFDA	N/A	N/A	8.56	8.54	23		06/23/2022 15:55
d3-MeFOSAA	N/A	N/A	8.43	8.40	17		06/23/2022 15:55
13C8 PFOSA	N/A	N/A	10.83	10.77	30		06/23/2022 15:55
d5-EtFOSAA	N/A	N/A	8.74	8.71	10		06/23/2022 15:55
13C7 PFUdA	N/A	N/A	9.25	9.22	41		06/23/2022 15:55
13C2 PFDoA	N/A	N/A	9.93	9.90	19		06/23/2022 15:55
13C2 PFTeDA	N/A	N/A	11.24	11.21	27		06/23/2022 15:55
13C3 HFPO-DA	N/A	N/A	6.10	6.09	14		06/23/2022 15:55
d3-N-MeFOSA	N/A	N/A	12.71	12.66	94		06/23/2022 15:55

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKIR	Total Amount Extracted	5.00g
Lab Sample ID	BLANK-99485	Ical ID	220621B02
Lab File ID	B220623A_005	CCal File	B220623A_003
Matrix	Soil	Ending CCal File	B220623A_015
Collected	06/14/2022 09:29	Blank File	
Received	06/14/2022 09:29		
Extraction Date	06/16/2022 12:56		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.33	ND		06/23/2022 15:55
PFPeA	N/A	N/A	5.13	5.12	ND		06/23/2022 15:55
HFPO-DA	0.36	0.27	6.12	6.10	ND		06/23/2022 15:55
PFBS	0.00	0.41	0.00	6.07	ND		06/23/2022 15:55
PFHxA	0.00	0.08	0.00	5.82	ND		06/23/2022 15:55
4:2 FTS	0.00	0.87	0.00	5.53	ND		06/23/2022 15:55
PFPeS	0.00	0.40	0.00	6.86	ND		06/23/2022 15:55
PFHpA	0.00	0.30	0.00	6.50	ND		06/23/2022 15:55
DONA	0.00	0.57	0.00	6.75	ND		06/23/2022 15:55
PFHxS	0.00	0.39	0.00	7.60	ND		06/23/2022 15:55
PFOA	0.49	0.40	7.19	7.18	ND		06/23/2022 15:55
6:2 FTS	0.95	0.90	6.83	6.82	ND		06/23/2022 15:55
PFHpS	0.00	0.43	0.00	8.32	ND		06/23/2022 15:55
PFNA	0.15	0.13	7.88	7.86	ND		06/23/2022 15:55
PFOSAm	N/A	N/A	10.82	10.78	ND		06/23/2022 15:55
PFOS	0.00	0.39	0.00	9.03	ND		06/23/2022 15:55
MeFOSA	0.00	0.54	0.00	12.69	ND		06/23/2022 15:55
PFDA	0.00	0.18	0.00	8.54	ND		06/23/2022 15:55
8:2 FTS	0.00	1.10	0.00	8.15	ND		06/23/2022 15:55
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 15:55
PFNS	0.00	0.50	0.00	9.71	ND		06/23/2022 15:55
PFUnDA	0.00	0.14	0.00	9.22	ND		06/23/2022 15:55
NMeFOSAA	0.00	1.00	0.00	8.41	ND		06/23/2022 15:55
NEtFOSAA	0.00	0.75	0.00	8.72	ND		06/23/2022 15:55
PFDS	0.00	0.34	0.00	10.37	ND		06/23/2022 15:55
PFDOA	0.00	0.18	0.00	9.90	ND		06/23/2022 15:55
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 15:55
PFTrDA	0.00	0.15	0.00	10.57	ND		06/23/2022 15:55
PFTDA	0.17	0.26	11.24	11.21	ND		06/23/2022 15:55

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKJO
 Lab Sample ID BLANK-99542
 Lab File ID Q220623C_015
 Matrix Soil
 Collected 06/17/2022 09:48
 Received 06/17/2022 09:48
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.00g
 Ical ID 220623A01
 CCal File Q220623B_030
 Ending CCal File Q220623C_017
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.024	1	375-22-4		06/24/2022 02:28
PFPeA	ND	0.10	0.10	0.026	1	2706-90-3		06/24/2022 02:28
HFPO-DA	ND	0.10	0.10	0.030	1	13252-13-6		06/24/2022 02:28
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/24/2022 02:28
PFHxA	ND	0.10	0.10	0.030	1	307-24-4		06/24/2022 02:28
4:2 FTS	ND	0.094	0.094	0.032	1	757124-72-4		06/24/2022 02:28
PFPeS	ND	0.094	0.094	0.019	1	2706-91-4		06/24/2022 02:28
PFHpA	ND	0.10	0.10	0.022	1	375-85-9		06/24/2022 02:28
DONA	ND	0.095	0.095	0.038	1	919005-14-4		06/24/2022 02:28
PFHxS	ND	0.091	0.091	0.022	1	355-46-4		06/24/2022 02:28
PFOA	ND	0.10	0.10	0.023	1	335-67-1		06/24/2022 02:28
6:2 FTS	ND	0.095	0.095	0.032	1	27619-97-2		06/24/2022 02:28
PFHpS	ND	0.095	0.095	0.025	1	375-92-8		06/24/2022 02:28
PFNA	ND	0.10	0.10	0.029	1	375-95-1		06/24/2022 02:28
PFOSAm	ND	0.10	0.10	0.023	1	754-91-6		06/24/2022 02:28
PFOS	ND	0.092	0.092	0.028	1	1763-23-1		06/24/2022 02:28
MeFOSA	ND	0.10	0.10	0.025	1	31506-32-8		06/24/2022 02:28
PFDA	ND	0.10	0.10	0.022	1	335-76-2		06/24/2022 02:28
8:2 FTS	ND	0.096	0.096	0.026	1	39108-34-4		06/24/2022 02:28
9-CI-PF3ON	ND	0.093	0.093	0.015	1	756426-58-1		06/24/2022 02:28
PFNS	ND	0.096	0.096	0.018	1	68259-12-1		06/24/2022 02:28
PFUnDA	ND	0.10	0.10	0.028	1	2058-94-8		06/24/2022 02:28
NMeFOSAA	ND	0.10	0.10	0.023	1	2355-31-9		06/24/2022 02:28
NEtFOSAA	ND	0.10	0.10	0.025	1	2991-50-6		06/24/2022 02:28
PFDS	ND	0.096	0.096	0.025	1	335-77-3		06/24/2022 02:28
PFDOA	ND	0.10	0.10	0.027	1	307-55-1		06/24/2022 02:28
11-CI-PF3OUdS	ND	0.094	0.094	0.016	1	763051-92-9		06/24/2022 02:28
PFTTrDA	ND	0.10	0.10	0.021	1	72629-94-8		06/24/2022 02:28
PFTDA	ND	0.10	0.10	0.032	1	376-06-7		06/24/2022 02:28

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKJO
 Lab Sample ID BLANK-99542
 Lab File ID Q220623C_015
 Matrix Soil
 Collected 06/17/2022 09:48
 Received 06/17/2022 09:48
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.00g
 Ical ID 220623A01
 CCal File Q220623B_030
 Ending CCal File Q220623C_017
 Blank File

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	1.0	101	50-150		06/24/2022 02:28
13C4 PFOA	1.0	1.0	104	50-150		06/24/2022 02:28
13C2 PFDA	1.0	1.0	103	50-150		06/24/2022 02:28
13C4 PFOS	0.96	1.1	114	50-150		06/24/2022 02:28

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc.Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.85	85	50-150		06/24/2022 02:28
13C5 PFPeA	1.0	0.92	92	50-150		06/24/2022 02:28
13C3 PFBS	0.93	0.80	86	50-150		06/24/2022 02:28
13C2 4:2FTS	0.94	0.93	99	50-150		06/24/2022 02:28
13C5 PFHxA	1.0	0.92	92	50-150		06/24/2022 02:28
13C4 PFHpA	1.0	0.86	86	50-150		06/24/2022 02:28
13C3 PFHxS	0.95	0.84	89	50-150		06/24/2022 02:28
13C2 6:2FTS	0.95	0.65	68	50-150		06/24/2022 02:28
13C8 PFOA	1.0	0.85	85	50-150		06/24/2022 02:28
13C9 PFNA	1.0	0.88	88	50-150		06/24/2022 02:28
13C8 PFOS	0.96	0.81	85	50-150		06/24/2022 02:28
13C2 8:2FTS	0.96	0.83	87	50-150		06/24/2022 02:28
13C6 PFDA	1.0	0.83	83	50-150		06/24/2022 02:28
d3-MeFOSAA	1.0	0.81	81	50-150		06/24/2022 02:28
13C8 PFOSA	1.0	0.83	83	50-150		06/24/2022 02:28
d5-EtFOSAA	1.0	0.70	70	50-150		06/24/2022 02:28
13C7 PFUdA	1.0	0.95	95	50-150		06/24/2022 02:28
13C2 PFDoA	1.0	0.88	88	50-150		06/24/2022 02:28
13C2 PFTeDA	1.0	0.95	95	50-150		06/24/2022 02:28
13C3 HFPO-DA	1.0	0.95	95	50-150		06/24/2022 02:28
d3-N-MeFOSA	1.0	0.36	36	10-150		06/24/2022 02:28

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKJO
 Lab Sample ID BLANK-99542
 Lab File ID Q220623C_015
 Matrix Soil
 Collected 06/17/2022 09:48
 Received 06/17/2022 09:48
 Extraction Date 06/20/2022 18:18

Total Amount Extracted 5.00g
 Ical ID 220623A01
 CCal File Q220623B_030
 Ending CCal File Q220623C_017
 Blank File

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.18	6.16	14		06/24/2022 02:28
13C4 PFOA	N/A	N/A	7.48	7.44	13		06/24/2022 02:28
13C2 PFDA	N/A	N/A	8.77	8.74	10		06/24/2022 02:28
13C4 PFOS	N/A	N/A	9.19	9.16	10		06/24/2022 02:28

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.73	21		06/24/2022 02:28
13C5 PFPeA	N/A	N/A	5.52	5.51	12		06/24/2022 02:28
13C3 PFBS	N/A	N/A	6.40	6.41	19		06/24/2022 02:28
13C2 4:2FTS	N/A	N/A	5.90	5.91	53		06/24/2022 02:28
13C5 PFHxA	N/A	N/A	6.18	6.17	12		06/24/2022 02:28
13C4 PFHpA	N/A	N/A	6.83	6.80	92		06/24/2022 02:28
13C3 PFHxS	N/A	N/A	7.84	7.84	14		06/24/2022 02:28
13C2 6:2FTS	N/A	N/A	7.15	7.16	82		06/24/2022 02:28
13C8 PFOA	N/A	N/A	7.48	7.43	13		06/24/2022 02:28
13C9 PFNA	N/A	N/A	8.12	8.13	17		06/24/2022 02:28
13C8 PFOS	N/A	N/A	9.19	9.17	10		06/24/2022 02:28
13C2 8:2FTS	N/A	N/A	8.41	8.38	55		06/24/2022 02:28
13C6 PFDA	N/A	N/A	8.78	8.75	28		06/24/2022 02:28
d3-MeFOSAA	N/A	N/A	8.69	8.65	81		06/24/2022 02:28
13C8 PFOSA	N/A	N/A	11.27	11.25	82		06/24/2022 02:28
d5-EtFOSAA	N/A	N/A	8.98	8.95	55		06/24/2022 02:28
13C7 PFUdA	N/A	N/A	9.42	9.40	17		06/24/2022 02:28
13C2 PFDoA	N/A	N/A	10.07	10.05	81		06/24/2022 02:28
13C2 PFTeDA	N/A	N/A	11.33	11.30	10		06/24/2022 02:28
13C3 HFPO-DA	N/A	N/A	6.45	6.43	21		06/24/2022 02:28
d3-N-MeFOSA	N/A	N/A	13.15	13.16	41		06/24/2022 02:28

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKJO	Total Amount Extracted	5.00g
Lab Sample ID	BLANK-99542	Ical ID	220623A01
Lab File ID	Q220623C_015	CCal File	Q220623B_030
Matrix	Soil	Ending CCal File	Q220623C_017
Collected	06/17/2022 09:48	Blank File	
Received	06/17/2022 09:48		
Extraction Date	06/20/2022 18:18		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.78	4.77	ND		06/24/2022 02:28
PFPeA	N/A	N/A	5.52	5.54	ND		06/24/2022 02:28
HFPO-DA	0.00	0.45	0.00	6.44	ND		06/24/2022 02:28
PFBS	0.00	0.35	0.00	6.40	ND		06/24/2022 02:28
PFHxA	0.00	0.09	0.00	6.17	ND		06/24/2022 02:28
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/24/2022 02:28
PFPeS	0.00	0.42	0.00	7.12	ND		06/24/2022 02:28
PFHpA	0.00	0.48	0.00	6.81	ND		06/24/2022 02:28
DONA	0.00	0.48	0.00	7.04	ND		06/24/2022 02:28
PFHxS	0.00	0.35	0.00	7.82	ND		06/24/2022 02:28
PFOA	0.34	0.34	7.48	7.44	ND		06/24/2022 02:28
6:2 FTS	0.00	1.30	0.00	7.12	ND		06/24/2022 02:28
PFHpS	0.00	0.30	0.00	8.51	ND		06/24/2022 02:28
PFNA	0.00	0.23	0.00	8.10	ND		06/24/2022 02:28
PFOSAm	N/A	N/A	11.27	11.26	ND		06/24/2022 02:28
PFOS	0.00	0.24	0.00	9.18	ND		06/24/2022 02:28
MeFOSA	0.00	0.56	0.00	13.17	ND		06/24/2022 02:28
PFDA	0.00	0.18	0.00	8.75	ND		06/24/2022 02:28
8:2 FTS	0.00	1.60	0.00	8.38	ND		06/24/2022 02:28
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/24/2022 02:28
PFNS	0.00	0.24	0.00	9.83	ND		06/24/2022 02:28
PFUnDA	0.00	0.20	0.00	9.40	ND		06/24/2022 02:28
NMeFOSAA	0.00	1.10	0.00	8.66	ND		06/24/2022 02:28
NEtFOSAA	0.00	0.43	0.00	8.96	ND		06/24/2022 02:28
PFDS	0.00	0.26	0.00	10.47	ND		06/24/2022 02:28
PFDOA	0.00	0.19	0.00	10.05	ND		06/24/2022 02:28
11-Cl-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/24/2022 02:28
PFTrDA	0.00	0.18	0.00	10.69	ND		06/24/2022 02:28
PFTDA	0.00	0.15	0.00	11.30	ND		06/24/2022 02:28

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99486	Instrument ID	10LCMS02
Run File Name	B220623A_006	Column ID	125GA90033
Analyzed	06/23/2022 16:15	Ical ID	220621B02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C2 PFHxA	1.0	1.1	110	50-150	
13C4 PFOA	1.0	1.1	106	50-150	
13C2 PFDA	1.0	1.0	104	50-150	
13C4 PFOS	0.96	0.99	104	50-150	

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	1.0	0.97	97	50-150	
13C5 PFPeA	1.0	0.96	96	50-150	
13C3 PFBS	0.93	0.92	99	50-150	
13C2 4:2FTS	0.94	0.87	93	50-150	
13C5 PFHxA	1.0	0.94	94	50-150	
13C4 PFHpA	1.0	0.92	92	50-150	
13C3 PFHxS	0.95	0.91	97	50-150	
13C2 6:2FTS	0.95	0.81	85	50-150	
13C8 PFOA	1.0	1.0	103	50-150	
13C9 PFNA	1.0	0.99	99	50-150	
13C8 PFOS	0.96	0.94	98	50-150	
13C2 8:2FTS	0.96	0.84	88	50-150	
13C6 PFDA	1.0	0.91	91	50-150	
d3-MeFOSAA	1.0	0.91	91	50-150	
13C8 PFOSA	1.0	0.94	94	50-150	
d5-EtFOSAA	1.0	0.93	93	50-150	
13C7 PFUdA	1.0	0.92	92	50-150	
13C2 PFDoA	1.0	0.95	95	50-150	
13C2 PFTeDA	1.0	0.94	94	50-150	
13C3 HFPO-DA	1.0	0.94	94	50-150	
d3-N-MeFOSA	1.0	0.74	74	10-150	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99486
 Run File Name B220623A_006
 Analyzed 06/23/2022 16:15
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.17	86	71-135		375-22-4
PFPeA	0.20	0.18	89	69-132		2706-90-3
HFPO-DA	0.20	0.17	84	70-140		13252-13-6
PFBS	0.18	0.15	83	72-128		375-73-5
PFHxA	0.20	0.18	91	70-132		307-24-4
4:2 FTS	0.19	0.17	89	62-145		757124-72-4
PFPeS	0.19	0.14	76	73-123		2706-91-4
PFHpA	0.20	0.19	94	71-131		375-85-9
DONA	0.19	0.17	90	70-140		919005-14-4
PFHxS	0.18	0.16	85	67-130		355-46-4
PFOA	0.20	0.18	92	69-133		335-67-1
6:2 FTS	0.19	0.18	96	64-140		27619-97-2
PFHpS	0.19	0.16	82	70-132		375-92-8
PFNA	0.20	0.18	92	72-129		375-95-1
PFOSAm	0.20	0.18	90	67-137		754-91-6
PFOS	0.18	0.16	86	68-136		1763-23-1
MeFOSA	0.20	0.16	80	70-140		31506-32-8
PFDA	0.20	0.19	93	69-133		335-76-2
8:2 FTS	0.19	0.17	90	65-137		39108-34-4
9-CI-PF3ON	0.19	0.15	79	70-140		756426-58-1
PFNS	0.19	0.16	83	69-125		68259-12-1
PFUnDA	0.20	0.19	95	64-136		2058-94-8
NMeFOSAA	0.20	0.17	83	63-144		2355-31-9
NEtFOSAA	0.20	0.17	87	61-139		2991-50-6
PFDS	0.19	0.17	86	59-134		335-77-3
PFDOA	0.20	0.17	87	69-135		307-55-1
11-CI-PF3OUdS	0.19	0.15	82	70-140		763051-92-9
PFTTrDA	0.20	0.18	88	66-139		72629-94-8
PFTDA	0.20	0.16	81	69-133		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.82	5.81	1910	
13C4 PFOA	N/A	N/A	7.19	7.17	2760	
13C2 PFDA	N/A	N/A	8.56	8.54	2143	
13C4 PFOS	N/A	N/A	9.03	9.01	2453	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99486
 Run File Name B220623A_006
 Analyzed 06/23/2022 16:15
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.32	4.32	2958	
13C5 PFPeA	N/A	N/A	5.13	5.12	2215	
13C3 PFBS	N/A	N/A	6.07	6.06	3456	
13C2 4:2FTS	N/A	N/A	5.54	5.52	531	
13C5 PFHxA	N/A	N/A	5.82	5.81	1763	
13C4 PFHpA	N/A	N/A	6.51	6.49	1755	
13C3 PFHxS	N/A	N/A	7.61	7.59	2295	
13C2 6:2FTS	N/A	N/A	6.84	6.82	3480	
13C8 PFOA	N/A	N/A	7.19	7.17	2899	
13C9 PFNA	N/A	N/A	7.87	7.85	2493	
13C8 PFOS	N/A	N/A	9.03	9.01	6887	
13C2 8:2FTS	N/A	N/A	8.17	8.15	7986	
13C6 PFDA	N/A	N/A	8.56	8.54	1834	
d3-MeFOSAA	N/A	N/A	8.43	8.40	1972	
13C8 PFOSA	N/A	N/A	10.81	10.77	3098	
d5-EtFOSAA	N/A	N/A	8.73	8.71	1242	
13C7 PFUdA	N/A	N/A	9.24	9.22	3224	
13C2 PFDoA	N/A	N/A	9.91	9.90	1727	
13C2 PFTeDA	N/A	N/A	11.22	11.21	1615	
13C3 HFPO-DA	N/A	N/A	6.10	6.09	1655	
d3-N-MeFOSA	N/A	N/A	12.71	12.66	1366	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99486
 Run File Name B220623A_006
 Analyzed 06/23/2022 16:15
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.32	4.33	142	
PFPeA	N/A	N/A	5.13	5.12	446	
HFPO-DA	0.31	0.27	6.11	6.10	487	
PFBS	0.45	0.41	6.08	6.07	1082	
PFHxA	0.07	0.08	5.83	5.82	249	
4:2 FTS	0.87	0.87	5.54	5.53	2667	
PFPeS	0.43	0.40	6.87	6.86	1630	
PFHpA	0.31	0.30	6.51	6.50	21	
DONA	0.58	0.57	6.76	6.75	1332	
PFHxS	0.36	0.39	7.61	7.60	1376	
PFOA	0.39	0.40	7.20	7.18	225	
6:2 FTS	0.89	0.90	6.84	6.82	447	
PFHpS	0.42	0.43	8.34	8.32	52634	
PFNA	0.13	0.13	7.88	7.86	597	
PFOSAm	N/A	N/A	10.81	10.78	691	
PFOS	0.37	0.39	9.04	9.03	501	
MeFOSA	0.63	0.54	12.73	12.69	689	
PFDA	0.17	0.18	8.57	8.54	368	
8:2 FTS	0.83	1.10	8.17	8.15	1228	
9-CI-PF3ON	0.06	0.06	9.55	9.52	1327	
PFNS	0.53	0.50	9.73	9.71	921	
PFUnDA	0.13	0.14	9.25	9.22	459	
NMeFOSAA	0.89	1.00	8.44	8.41	11971	
NEtFOSAA	0.70	0.75	8.75	8.72	320	
PFDS	0.32	0.34	10.39	10.37	1888	
PFDOA	0.18	0.18	9.92	9.90	493	
11-CI-PF3OUdS	0.02	0.02	10.86	10.85	784	
PFTTrDA	0.14	0.15	10.59	10.57	445	
PFTDA	0.24	0.26	11.22	11.21	396	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99543	Instrument ID	10LCMS01
Run File Name	Q220623C_016	Column ID	118AB10133
Analyzed	06/24/2022 02:46	Ical ID	220623A01
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C2 PFHxA	1.0	1.3	130	50-150	
13C4 PFOA	1.0	1.1	108	50-150	
13C2 PFDA	1.0	1.2	122	50-150	
13C4 PFOS	0.96	1.2	130	50-150	

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	1.0	0.94	94	50-150	
13C5 PFPeA	1.0	1.1	106	50-150	
13C3 PFBS	0.93	0.87	93	50-150	
13C2 4:2FTS	0.94	0.91	98	50-150	
13C5 PFHxA	1.0	1.1	114	50-150	
13C4 PFHpA	1.0	0.86	86	50-150	
13C3 PFHxS	0.95	0.84	89	50-150	
13C2 6:2FTS	0.95	0.72	76	50-150	
13C8 PFOA	1.0	0.81	81	50-150	
13C9 PFNA	1.0	0.99	99	50-150	
13C8 PFOS	0.96	0.75	78	50-150	
13C2 8:2FTS	0.96	0.81	84	50-150	
13C6 PFDA	1.0	0.91	91	50-150	
d3-MeFOSAA	1.0	0.84	84	50-150	
13C8 PFOSA	1.0	0.80	80	50-150	
d5-EtFOSAA	1.0	0.87	87	50-150	
13C7 PFUdA	1.0	0.98	98	50-150	
13C2 PFDoA	1.0	0.85	85	50-150	
13C2 PFTeDA	1.0	0.91	91	50-150	
13C3 HFPO-DA	1.0	1.1	113	50-150	
d3-N-MeFOSA	1.0	0.89	89	10-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99543
 Run File Name Q220623C_016
 Analyzed 06/24/2022 02:46
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.21	107	71-135		375-22-4
PFPeA	0.20	0.20	100	69-132		2706-90-3
HFPO-DA	0.20	0.18	88	70-140		13252-13-6
PFBS	0.18	0.18	102	72-128		375-73-5
PFHxA	0.20	0.19	97	70-132		307-24-4
4:2 FTS	0.19	0.16	84	62-145		757124-72-4
PFPeS	0.19	0.16	84	73-123		2706-91-4
PFHpA	0.20	0.23	115	71-131		375-85-9
DONA	0.19	0.19	99	70-140		919005-14-4
PFHxS	0.18	0.18	97	67-130		355-46-4
PFOA	0.20	0.22	112	69-133		335-67-1
6:2 FTS	0.19	0.20	105	64-140		27619-97-2
PFHpS	0.19	0.23	119	70-132		375-92-8
PFNA	0.20	0.19	94	72-129		375-95-1
PFOSAm	0.20	0.20	101	67-137		754-91-6
PFOS	0.18	0.19	104	68-136		1763-23-1
MeFOSA	0.20	0.18	88	70-140		31506-32-8
PFDA	0.20	0.18	92	69-133		335-76-2
8:2 FTS	0.19	0.18	94	65-137		39108-34-4
9-CI-PF3ON	0.19	0.23	122	70-140		756426-58-1
PFNS	0.19	0.21	107	69-125		68259-12-1
PFUnDA	0.20	0.18	89	64-136		2058-94-8
NMeFOSAA	0.20	0.25	126	63-144		2355-31-9
NEtFOSAA	0.20	0.19	93	61-139		2991-50-6
PFDS	0.19	0.21	111	59-134		335-77-3
PFDOA	0.20	0.20	99	69-135		307-55-1
11-CI-PF3OUdS	0.19	0.22	117	70-140	I	763051-92-9
PFTTrDA	0.20	0.22	109	66-139		72629-94-8
PFTDA	0.20	0.21	103	69-133		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	6.18	6.16	1171	
13C4 PFOA	N/A	N/A	7.48	7.44	1468	
13C2 PFDA	N/A	N/A	8.78	8.74	1406	
13C4 PFOS	N/A	N/A	9.19	9.16	2216	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99543
 Run File Name Q220623C_016
 Analyzed 06/24/2022 02:46
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.72	4.73	1975	
13C5 PFPeA	N/A	N/A	5.52	5.51	1610	
13C3 PFBS	N/A	N/A	6.40	6.41	2530	
13C2 4:2FTS	N/A	N/A	5.90	5.91	719	
13C5 PFHxA	N/A	N/A	6.18	6.17	1149	
13C4 PFHpA	N/A	N/A	6.83	6.80	935	
13C3 PFHxS	N/A	N/A	7.85	7.84	1287	
13C2 6:2FTS	N/A	N/A	7.15	7.16	19308	
13C8 PFOA	N/A	N/A	7.48	7.43	1628	
13C9 PFNA	N/A	N/A	8.13	8.13	1719	
13C8 PFOS	N/A	N/A	9.19	9.17	1010	
13C2 8:2FTS	N/A	N/A	8.41	8.38	2647148	
13C6 PFDA	N/A	N/A	8.77	8.75	2181	
d3-MeFOSAA	N/A	N/A	8.69	8.65	5922	
13C8 PFOSA	N/A	N/A	11.28	11.25	1322	
d5-EtFOSAA	N/A	N/A	8.99	8.95	1280	
13C7 PFUdA	N/A	N/A	9.42	9.40	3888	
13C2 PFDoA	N/A	N/A	10.07	10.05	759	
13C2 PFTeDA	N/A	N/A	11.34	11.30	909	
13C3 HFPO-DA	N/A	N/A	6.45	6.43	1439	
d3-N-MeFOSA	N/A	N/A	13.17	13.16	474	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99543
 Run File Name Q220623C_016
 Analyzed 06/24/2022 02:46
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.73	4.77	188	
PFPeA	N/A	N/A	5.52	5.54	398	
HFPO-DA	0.41	0.45	6.47	6.44	475	
PFBS	0.37	0.35	6.41	6.40	694	
PFHxA	0.07	0.09	6.19	6.17	202	
4:2 FTS	1.10	1.00	5.91	5.91	9645	
PFPeS	0.48	0.42	7.15	7.12	682	
PFHpA	0.37	0.48	6.84	6.81	40	
DONA	0.43	0.48	7.08	7.04	939	
PFHxS	0.36	0.35	7.85	7.82	765	
PFOA	0.31	0.34	7.49	7.44	209	
6:2 FTS	1.10	1.30	7.15	7.12	35	
PFHpS	0.35	0.30	8.54	8.51	1455	
PFNA	0.28	0.23	8.14	8.10	346	
PFOSAm	N/A	N/A	11.29	11.26	963	
PFOS	0.21	0.24	9.21	9.18	205	
MeFOSA	0.56	0.56	13.20	13.17	425	
PFDA	0.15	0.18	8.79	8.75	172	
8:2 FTS	1.80	1.60	8.42	8.38	737	
9-CI-PF3ON	0.03	0.04	9.67	9.66	878	
PFNS	0.26	0.24	9.85	9.83	1445	
PFUnDA	0.15	0.20	9.43	9.40	269	
NMeFOSAA	0.60	1.10	8.70	8.66	142	
NEtFOSAA	0.54	0.43	9.00	8.96	122	
PFDS	0.26	0.26	10.50	10.47	998	
PFDOA	0.19	0.19	10.08	10.05	288	
11-CI-PF3OUdS	0.03	0.02	10.96	10.92	593	I
PFTTrDA	0.16	0.18	10.72	10.69	334	
PFTDA	0.15	0.15	11.34	11.30	237	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10610381013-MS
 Run File Name Q220627A_032
 Analyzed 06/27/2022 18:03
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers
13C2 PFHxA	1.1	0.91	85	50-150	
13C4 PFOA	1.1	0.90	84	50-150	
13C2 PFDA	1.1	0.82	76	50-150	
13C4 PFOS	1.0	1.0	102	50-150	

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	1.1	0.76	71	50-150	
13C5 PFPeA	1.1	0.76	71	50-150	
13C3 PFBS	0.99	0.79	80	50-150	
13C2 4:2FTS	1.0	1.9	193	50-150	R
13C5 PFHxA	1.1	0.81	76	50-150	
13C4 PFHpA	1.1	0.71	66	50-150	
13C3 PFHxS	1.0	0.76	75	50-150	
13C2 6:2FTS	1.0	3.4	332	50-150	R
13C8 PFOA	1.1	0.88	82	50-150	
13C9 PFNA	1.1	0.88	82	50-150	
13C8 PFOS	1.0	0.77	75	50-150	
13C2 8:2FTS	1.0	4.4	425	50-150	R
13C6 PFDA	1.1	0.86	80	50-150	
d3-MeFOSAA	1.1	1.8	169	50-150	R
13C8 PFOSA	1.1	0.72	68	25-150	
d5-EtFOSAA	1.1	1.9	174	50-150	R
13C7 PFUdA	1.1	1.00	93	50-150	
13C2 PFDoA	1.1	1.1	103	50-150	
13C2 PFTeDA	1.1	1.2	110	50-150	
13C3 HFPO-DA	1.1	0.59	55	50-150	
d3-N-MeFOSA	1.1	0.22	21	10-150	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10610381013-MS
 Run File Name Q220627A_032
 Analyzed 06/27/2022 18:03
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.00	0.21	0.23	107	70-140		375-22-4
PFPeA	0.00	0.21	0.25	117	70-140		2706-90-3
HFPO-DA	0.00	0.21	0.24	111	70-140		13252-13-6
PFBS	0.00	0.19	0.24	125	70-140		375-73-5
PFHxA	0.00	0.21	0.28	130	70-140		307-24-4
4:2 FTS	0.00	0.20	0.21	107	70-140		757124-72-4
PFPeS	0.00	0.20	0.26	132	70-140		2706-91-4
PFHpA	0.00	0.21	0.28	131	70-140		375-85-9
DONA	0.00	0.20	0.17	86	70-140		919005-14-4
PFHxS	0.70	0.19	1.2	253	70-140	R	355-46-4
PFOA	0.00	0.21	0.26	121	70-140		335-67-1
6:2 FTS	0.00	0.20	0.22	109	70-140		27619-97-2
PFHpS	0.00	0.20	0.33	161	70-140	R	375-92-8
PFNA	0.00	0.21	0.24	111	70-140		375-95-1
PFOSAm	0.00	0.21	0.25	115	70-140		754-91-6
PFOS	5.8	0.20	9.7	1993	70-140	R	1763-23-1
MeFOSA	0.00	0.21	0.23	106	70-140		31506-32-8
PFDA	0.00	0.21	0.24	113	70-140		335-76-2
8:2 FTS	0.00	0.21	0.16	76	70-140		39108-34-4
9-CI-PF3ON	0.00	0.20	0.22	109	70-140		756426-58-1
PFNS	0.00	0.21	0.21	101	70-140		68259-12-1
PFUnDA	0.00	0.21	0.21	100	70-140		2058-94-8
NMeFOSAA	0.00	0.21	0.23	107	70-140		2355-31-9
NEtFOSAA	0.00	0.21	0.22	104	70-140		2991-50-6
PFDS	0.00	0.21	0.20	95	70-140		335-77-3
PFDOA	0.00	0.21	0.22	102	70-140		307-55-1
11-CI-PF3OUdS	0.00	0.20	0.19	96	70-140		763051-92-9
PFTTrDA	0.00	0.21	0.21	97	70-140		72629-94-8
PFTDA	0.00	0.21	0.18	82	70-140		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	6.18	6.16	778	
13C4 PFOA	N/A	N/A	7.50	7.50	1745	
13C2 PFDA	N/A	N/A	8.79	8.74	717	
13C4 PFOS	N/A	N/A	9.21	9.23	257	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10610381013-MS
 Run File Name Q220627A_032
 Analyzed 06/27/2022 18:03
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.68	4.73	1392	
13C5 PFPeA	N/A	N/A	5.51	5.53	1058	
13C3 PFBS	N/A	N/A	6.41	6.39	516	
13C2 4:2FTS	N/A	N/A	5.91	5.90	371	R
13C5 PFHxA	N/A	N/A	6.18	6.17	641	
13C4 PFHpA	N/A	N/A	6.85	6.83	880	
13C3 PFHxS	N/A	N/A	7.87	7.89	581	
13C2 6:2FTS	N/A	N/A	7.17	7.15	321	R
13C8 PFOA	N/A	N/A	7.50	7.52	1497	
13C9 PFNA	N/A	N/A	8.15	8.12	1164	
13C8 PFOS	N/A	N/A	9.21	9.17	313	
13C2 8:2FTS	N/A	N/A	8.44	8.38	554	R
13C6 PFDA	N/A	N/A	8.80	8.75	1018	
d3-MeFOSAA	N/A	N/A	8.71	8.65	1553	R
13C8 PFOSA	N/A	N/A	11.31	11.25	1331	
d5-EtFOSAA	N/A	N/A	9.01	8.95	2271	R
13C7 PFUdA	N/A	N/A	9.45	9.40	981	
13C2 PFDoA	N/A	N/A	10.10	10.05	493	
13C2 PFTeDA	N/A	N/A	11.37	11.30	1428	
13C3 HFPO-DA	N/A	N/A	6.46	6.43	47	
d3-N-MeFOSA	N/A	N/A	13.20	13.16	183	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10610381013-MS
 Run File Name Q220627A_032
 Analyzed 06/27/2022 18:03
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.69	4.77	131	
PFPeA	N/A	N/A	5.52	5.54	148	
HFPO-DA	0.44	0.49	6.47	6.44	319	
PFBS	0.34	0.33	6.42	6.40	231	
PFHxA	0.08	0.07	6.19	6.17	100	
4:2 FTS	0.93	0.92	5.91	5.91	726	
PFPeS	0.40	0.44	7.17	7.18	223	
PFHpA	0.38	0.43	6.86	6.81	18	
DONA	0.47	0.44	7.10	7.04	1249	
PFHxS	0.32	0.33	7.87	7.82	328	R
PFOA	0.31	0.29	7.51	7.44	104	
6:2 FTS	1.30	1.00	7.18	7.12	49	
PFHpS	0.32	0.41	8.56	8.51	121	R
PFNA	0.26	0.23	8.16	8.10	139	
PFOSAm	N/A	N/A	11.32	11.26	345	
PFOS	0.26	0.20	9.23	9.18	339	R
MeFOSA	0.35	0.48	13.22	13.17	148	
PFDA	0.17	0.17	8.81	8.83	224	
8:2 FTS	1.70	1.80	8.44	8.38	687150	
9-CI-PF3ON	0.04	0.04	9.70	9.66	1230	
PFNS	0.22	0.23	9.88	9.83	90	
PFUnDA	0.16	0.18	9.46	9.40	245	
NMeFOSAA	0.84	0.71	8.72	8.66	189	
NEtFOSAA	0.48	0.44	9.02	8.96	656	
PFDS	0.29	0.26	10.53	10.47	118	
PFDOA	0.18	0.19	10.11	10.05	447	
11-CI-PF3OUdS	0.03	0.03	10.99	10.92	1239	
PFTTrDA	0.18	0.22	10.75	10.69	541	
PFTDA	0.15	0.17	11.38	11.30	418	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10610381013-MSD
 Run File Name Q220627A_033
 Analyzed 06/27/2022 18:21
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Injection Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers
13C2_PFHxA	1.1	1.2	108	50-150	23.7	
13C4_PFOA	1.1	1.3	120	50-150	35.4	
13C2_PFDA	1.1	0.93	86	50-150	12.4	
13C4_PFOS	1.0	1.2	121	50-150	17.2	

Extracted Internal Standards

Compound	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers
13C4_PFBFA	1.1	0.84	78	50-150	10.1	
13C5_PFPeA	1.1	1.0	94	50-150	27.7	
13C3_PFBFS	0.99	0.85	85	50-150	6.8	
13C2_4:2FTS	1.0	1.7	174	50-150	10.4	R
13C5_PFHxA	1.1	0.98	92	50-150	18.5	
13C4_PFHpA	1.1	0.90	84	50-150	23.6	
13C3_PFHxS	1.0	0.99	97	50-150	25.7	
13C2_6:2FTS	1.0	3.0	295	50-150	11.8	R
13C8_PFOA	1.1	1.1	101	50-150	20.2	
13C9_PFNA	1.1	1.1	100	50-150	20.3	
13C8_PFOS	1.0	0.95	92	50-150	20.2	
13C2_8:2FTS	1.0	3.2	312	50-150	30.6	R
13C6_PFDA	1.1	1.00	93	50-150	15.1	
d3-MeFOSAA	1.1	1.6	145	50-150	15.3	
13C8_PFOA	1.1	0.89	83	25-150	20.9	
d5-EtFOSAA	1.1	1.8	172	50-150	1.4	R
13C7_PFUdA	1.1	1.1	103	50-150	9.9	
13C2_PFDaA	1.1	1.1	104	50-150	1.1	
13C2_PFTeDA	1.1	1.3	119	50-150	7.7	
13C3_HFPO-DA	1.1	0.61	57	50-150	4.0	
d3-N-MeFOSA	1.1	0.29	27	10-150	25.6	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

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 Run File Name Q220627A_033
 Analyzed 06/27/2022 18:21
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Native Analytes

Compound	Sample Conc. (ug/Kg)	Known Conc. (ug/Kg)	Conc. Found (ug/Kg)	%Recovery	Recovery Limits	RPD	Qualifiers	CAS No.
PFBA	0.00	0.21	0.25	116	70-140	8.6		375-22-4
PFPeA	0.00	0.21	0.25	116	70-140	0.5		2706-90-3
HFPO-DA	0.00	0.21	0.22	104	70-140	7.0	I	13252-13-6
PFBS	0.00	0.19	0.25	134	70-140	6.6		375-73-5
PFHxA	0.00	0.21	0.27	126	70-140	2.8		307-24-4
4:2 FTS	0.00	0.20	0.24	121	70-140	12.6		757124-72-4
PFPeS	0.00	0.20	0.23	112	70-140	16.1		2706-91-4
PFHpA	0.00	0.21	0.25	116	70-140	12.1		375-85-9
DONA	0.00	0.20	0.18	91	70-140	5.3		919005-14-4
PFHxS	0.70	0.19	0.94	121	70-140	24.1		355-46-4
PFOA	0.00	0.21	0.25	116	70-140	4.4		335-67-1
6:2 FTS	0.00	0.20	0.19	92	70-140	16.7		27619-97-2
PFHpS	0.00	0.20	0.23	113	70-140	35.2		375-92-8
PFNA	0.00	0.21	0.26	120	70-140	7.7		375-95-1
PFOSAm	0.00	0.21	0.28	130	70-140	11.6		754-91-6
PFOS	5.8	0.20	5.5	0	70-140	55.6	R	1763-23-1
MeFOSA	0.00	0.21	0.19	88	70-140	18.1		31506-32-8
PFDA	0.00	0.21	0.22	103	70-140	9.7		335-76-2
8:2 FTS	0.00	0.21	0.18	87	70-140	13.5		39108-34-4
9-CI-PF3ON	0.00	0.20	0.20	100	70-140	8.6		756426-58-1
PFNS	0.00	0.21	0.22	107	70-140	5.8		68259-12-1
PFUnDA	0.00	0.21	0.24	110	70-140	9.9		2058-94-8
NMeFOSAA	0.00	0.21	0.26	123	70-140	14.4		2355-31-9
NEtFOSAA	0.00	0.21	0.21	97	70-140	7.3		2991-50-6
PFDS	0.00	0.21	0.20	95	70-140	1.0		335-77-3
PFDOA	0.00	0.21	0.21	100	70-140	2.2		307-55-1
11-CI-PF3OUdS	0.00	0.20	0.16	80	70-140	17.8		763051-92-9
PFTTrDA	0.00	0.21	0.22	103	70-140	6.9		72629-94-8
PFTDA	0.00	0.21	0.21	96	70-140	15.9		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	6.18	6.16	1051	
13C4 PFOA	N/A	N/A	7.50	7.50	1807	
13C2 PFDA	N/A	N/A	8.81	8.74	1842	
13C4 PFOS	N/A	N/A	9.22	9.23	497	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10610381013-MSD
 Run File Name Q220627A_033
 Analyzed 06/27/2022 18:21
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.71	4.73	1757	
13C5 PFPeA	N/A	N/A	5.51	5.53	1277	
13C3 PFBS	N/A	N/A	6.41	6.39	467	
13C2 4:2FTS	N/A	N/A	5.91	5.90	306	R
13C5 PFHxA	N/A	N/A	6.18	6.17	1186	
13C4 PFHpA	N/A	N/A	6.85	6.83	1267	
13C3 PFHxS	N/A	N/A	7.86	7.89	776	
13C2 6:2FTS	N/A	N/A	7.16	7.15	330	R
13C8 PFOA	N/A	N/A	7.49	7.52	1701	
13C9 PFNA	N/A	N/A	8.15	8.12	1507	
13C8 PFOS	N/A	N/A	9.22	9.17	395	
13C2 8:2FTS	N/A	N/A	8.44	8.38	616	R
13C6 PFDA	N/A	N/A	8.81	8.75	1764	
d3-MeFOSAA	N/A	N/A	8.72	8.65	1401	
13C8 PFOSA	N/A	N/A	11.31	11.25	1200	
d5-EtFOSAA	N/A	N/A	9.02	8.95	1080	R
13C7 PFUdA	N/A	N/A	9.46	9.40	1909	
13C2 PFDoA	N/A	N/A	10.11	10.05	472	
13C2 PFTeDA	N/A	N/A	11.37	11.30	1445	
13C3 HFPO-DA	N/A	N/A	6.46	6.43	35	
d3-N-MeFOSA	N/A	N/A	13.20	13.16	255	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

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 Run File Name Q220627A_033
 Analyzed 06/27/2022 18:21
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220623A01
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.71	4.77	125	
PFPeA	N/A	N/A	5.52	5.54	197	
HFPO-DA	1.00	0.49	6.47	6.44	372	I
PFBS	0.35	0.33	6.41	6.40	250	
PFHxA	0.07	0.07	6.19	6.17	125	
4:2 FTS	0.94	0.92	5.92	5.91	877	
PFPeS	0.37	0.44	7.17	7.18	243	
PFHpA	0.49	0.43	6.85	6.81	17	
DONA	0.47	0.44	7.09	7.04	1285	
PFHxS	0.34	0.33	7.87	7.82	411	
PFOA	0.33	0.29	7.50	7.44	144	
6:2 FTS	1.10	1.00	7.17	7.12	37	
PFHpS	0.36	0.41	8.57	8.51	197	
PFNA	0.21	0.23	8.16	8.10	185	
PFOSAm	N/A	N/A	11.32	11.26	327	
PFOS	0.26	0.20	9.24	9.18	371	R
MeFOSA	0.44	0.48	13.22	13.17	151	
PFDA	0.14	0.17	8.82	8.83	213	
8:2 FTS	1.80	1.80	8.45	8.38	727	
9-CI-PF3ON	0.03	0.04	9.71	9.66	1224	
PFNS	0.23	0.23	9.89	9.83	169	
PFUnDA	0.14	0.18	9.47	9.40	277	
NMeFOSAA	0.66	0.71	8.73	8.66	186	
NEtFOSAA	0.43	0.44	9.04	8.96	417	
PFDS	0.28	0.26	10.54	10.47	153	
PFDOA	0.18	0.19	10.12	10.05	402	
11-CI-PF3OUdS	0.03	0.03	10.99	10.92	1365	
PFTTrDA	0.19	0.22	10.76	10.69	458	
PFTDA	0.13	0.17	11.38	11.30	497	

REPORT OF LABORATORY ANALYSIS

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Report Prepared for:

Client Services
Pace Analytical National
12065 Lebanon Road
Mount Juliet TN 37122

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

August 2, 2022

Report Information:

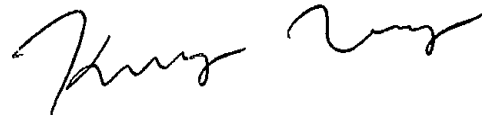
Pace Project #: 10609490
Sample Receipt Date: 05/20/2022
Client Project #: L1495761 WG1867027
Client Sub PO #: L1495761
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kongmeng Vang, your Pace Project Manager.

This report has been reviewed by:



August 02, 2022

Kongmeng Vang, Project Manager
(612) 607-6382
(612) 607-6333 (fax)



Report of Laboratory Analysis

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The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on thirty-eight samples, two matrix spikes, and two matrix spike duplicates submitted by a representative of Pace Analytical National. The samples were analyzed for twenty-nine perfluorinated compounds using DOD QSM 5.3 for PFAS. Reporting limits were set to quantification limits. This report was revised July 20, 2022 to update the analytes list to twenty-nine. This report was revised August 2, 2022 to update a sample ID.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

A laboratory spike sample and matrix spike samples were also prepared with the sample batch using clean reference or sample material matrix that had been fortified with native standards. The recovery results were within the method limits. The RPDs (relative percent differences) between one designated spike and its duplicate were within the method limits. These spikes indicate that extraction performed as expected.

Diminished extracted internal standard (EIS) recovery ("R" flagged) were present in "EB-518", BLANK-99259, and BLANK-99345 however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Several samples has EIS d3-N-MeFOSA recovery less than 1%, the results of associated analyte MeFOSA should be considered as estimated.

With the exception of 13C2_PFDA in "EB-518", the four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) pass for each analysis in the batch verifying that the instrument detector is working as expected.

Values were flagged "I" where incorrect isotope ratios were obtained.

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
SB143-1	10609490001	05/20/2022	Solid
SB140-1	10609490002	05/20/2022	Solid
SB53-1	10609490003	05/20/2022	Solid
SB141-1	10609490004	05/20/2022	Solid
SB51-1	10609490005	05/20/2022	Solid
SB50-1	10609490006	05/20/2022	Solid
SB49-1	10609490007	05/20/2022	Solid
SB139-1	10609490008	05/20/2022	Solid
SB52-1	10609490009	05/20/2022	Solid
SB142-1	10609490010	05/20/2022	Solid
SB167-1	10609490011	05/20/2022	Solid
SB134-3	10609490012	05/20/2022	Solid
SB166-1	10609490013	05/20/2022	Solid
SB136-1	10609490014	05/20/2022	Solid
SB150-1	10609490015	05/20/2022	Solid
SB134-1	10609490016	05/20/2022	Solid
SB149-1	10609490017	05/20/2022	Solid
SB137-1	10609490018	05/20/2022	Solid
SB62-1	10609490019	05/20/2022	Solid
SB135-1	10609490020	05/20/2022	Solid
SB138-1	10609490021	05/20/2022	Solid
SB152-1	10609490023	05/20/2022	Solid
SB60-1	10609490024	05/20/2022	Solid
SB153-1	10609490025	05/20/2022	Solid
SB149-3	10609490026	05/20/2022	Solid
SB151-1	10609490027	05/20/2022	Solid
SB65-1	10609490028	05/20/2022	Solid
EB-518	10609490029	05/20/2022	Water
SB168-1	10609490031	05/20/2022	Solid
SB165-1	10609490032	05/20/2022	Solid
SB67-1	10609490033	05/20/2022	Solid
SB57-1	10609490034	05/20/2022	Solid
SB56-1	10609490035	05/20/2022	Solid
SB54-1	10609490036	05/20/2022	Solid
SB58-3	10609490037	05/20/2022	Solid
SB164-1	10609490038	05/20/2022	Solid
SB58-1	10609490039	05/20/2022	Solid

REPORT OF LABORATORY ANALYSIS

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 without the written consent of Pace Analytical Services, Inc.



Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
SB55-1	10609490040	05/20/2022	Solid

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, Inc.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Report ID: R2_DFR

Client Information:

Section B

Required Project Information:

Section C

Invoice Information:

Company: Pace Analytical
 Address: 12065 Lebanon Rd.
 City: Baton Rouge, LA 70820
 Phone: (615) 773-9756
 Fax: (615) 758-5859
 Email: MJLSuboutTeam@pacelabs.com
 Order Date: 13-Jun

Report To: Pace Analytical Subout Team
 Copy To:
 Purchase Order #: L1495761
 Project Name: Homer Airport
 Project #:

Attention: BGES
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Ruth Welsh
 Pace Profile #: 38076

Regulatory Agency
State / Location
 AK

SAMPLE ID

One Character per box.
(A-Z, 0-9 / , -)

Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

MATRIX CODE (see valid codes to left)

SAMPLE TYPE (G=GRAB C=COMP)

COLLECTED			
START		END	
DATE	TIME	DATE	TIME

SAMPLE TEMP AT COLLECTION

# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Requested Analysis Filtered (Y/N)	Residual C

WO#: 10609490

10609490

SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Y/N	Requested Analysis Filtered (Y/N)	Residual C
			DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				
SB143-1	SL		18-May	15:18				1										X		
SB140-1	SL		18-May	14:41				1										X		
SB53-1	SL		18-May	17:38				1										X		
SB141-1	SL		18-May	14:53				1										X		
SB51-1	SL		18-May	17:14				1										X		
SB50-1	SL		18-May	17:04				1										X		
SB49-1	SL		18-May	16:37				1										X		
SB139-1	SL		18-May	14:28				1										X		
SB52-1	SL		18-May	17:27				1										X		
SB142-1	SL		18-May	15:08				1										X		
SB167-1	SL		18-May	9:55				1										X		
SB134-3	SL		18-May	15:36				1										X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
							Y	N	Other	
	James C Huckaba	20-May	11:24	JC / PACE	5-20-22	8:50	4.2	Y	Y	Y
Analytical Batch: WG1867027										
Analytical SDGs: L1495761										
Address: Baton Rouge, LA 70820										

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:

Page 1 of 2

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section C

Invoice Information:

Attention: BGES
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Ruth Welsh
 Pace Profile #: 38076

Section B

Required Project Information:

Report To: Pace Analytical Subout Team
 Copy To:
 Purchase Order #: L1495761
 Project Name: Homer Airport
 Project #:

Page: 2 Of 4

Regulatory Agency
 State / Location
 AK

SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique</small>	MATRIX <small>Drinking Water Waste Water Product Soil/solid Oil Wipes Air Other Tissue</small>	CODE <small>DW WT WW P SL OL WP AR OT TS</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives <small>Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other</small>	Analyzes Test <small>Y/N</small>	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					START DATE	END DATE						
					TIME	TIME						
SB166-1			SL		18-May	10:29	1			X		
SB167-1			SL		18-May	15:58	1			X		
SB168-1			SL		18-May	12:38	1			X		
SB169-1			SL		18-May	15:31	1			X		
SB170-1			SL		18-May	11:51	1			X		
SB171-1			SL		18-May	16:11	1			X		
SB172-1			SL		18-May	11:28	1			X		
SB173-1			SL		18-May	11:28	1			X		
SB174-1			SL		18-May	16:21	1			X		
SB175-1			SL		18-May	15:44	1			X		
SB176-1			SL		18-May	14:24	1			X		
SB177-1			SL		18-May	13:03	1			X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	James C Huckaba	20-May	11:24	<i>Jim/PAGE</i>	5-20-22	8:50	4.2 Y Y Y
Analytical Batch: WG1867027							
Analytical SDGs: L1495761							
Location: Baton Rouge, LA 70820							

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Client Information:
 Report To: Pace Analytical Subout Team
 Copy To: 12065 Lebanon Rd.
 703 37122
 MSLSuboutTeam@pacelabs.com
 Project Name: Homer Airport
 Project #: 13-Jun
 Fax: (615) 758-5859
 Purchase Order #: L1495761
 Pace Project Manager: Ruth Welsh
 Pace Profile #: 38076

Section B
Required Project Information:
 Report To: Pace Analytical Subout Team
 Copy To: 12065 Lebanon Rd.
 703 37122
 MSLSuboutTeam@pacelabs.com
 Project Name: Homer Airport
 Project #: 13-Jun
 Fax: (615) 758-5859
 Purchase Order #: L1495761
 Pace Project Manager: Ruth Welsh
 Pace Profile #: 38076

Section C
Invoice Information:
 Attention: BGES
 Company Name:
 Address:
 State / Location: AK
 Regulatory Agency:

MATRIX	CODE	SAMPLE TYPE (see valid codes to left)	COLLECTED		DATE	TIME	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
			START	END											
MATRIX	DW	SL	18-May	11:35	18-May	11:35	18-May	11:35	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Drinking Water	WT	SL	18-May	11:59	18-May	11:59	18-May	11:59	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Waste Water	WW	SL	18-May	12:48	18-May	12:48	18-May	12:48	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Product	P	SL	18-May	11:00	18-May	11:00	18-May	11:00	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Soil/Solid	SL	SL	18-May	17:55	18-May	17:55	18-May	17:55	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Oil	OL	SL	18-May	9:45	18-May	9:45	18-May	9:45	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Wipe	WP	SL	18-May	10:14	18-May	10:14	18-May	10:14	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Air	AR	WT	18-May	13:34	18-May	13:34	18-May	13:34	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Other	OT	SL	18-May	13:45	18-May	13:45	18-May	13:45	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Tissue	TS	SL	18-May	14:16	18-May	14:16	18-May	14:16	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
		SL	18-May	13:29	18-May	13:29	18-May	13:29	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y

MATRIX	CODE	SAMPLE TYPE (see valid codes to left)	START	END	DATE	TIME	DATE	TIME	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Drinking Water	DW	SL	18-May	11:35	18-May	11:35	18-May	11:35	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Waste Water	WW	SL	18-May	11:59	18-May	11:59	18-May	11:59	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Product	P	SL	18-May	12:48	18-May	12:48	18-May	12:48	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Soil/Solid	SL	SL	18-May	11:00	18-May	11:00	18-May	11:00	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Oil	OL	SL	18-May	17:55	18-May	17:55	18-May	17:55	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Wipe	WP	SL	18-May	9:45	18-May	9:45	18-May	9:45	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Air	AR	WT	18-May	10:14	18-May	10:14	18-May	10:14	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Other	OT	SL	18-May	13:34	18-May	13:34	18-May	13:34	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
Tissue	TS	SL	18-May	13:45	18-May	13:45	18-May	13:45	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
		SL	18-May	14:16	18-May	14:16	18-May	14:16	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y
		SL	18-May	13:29	18-May	13:29	18-May	13:29	James C Huckaba	20-May	11:24	Sen / PACE	5-20-22	8:50	Y Y Y

ADDITIONAL COMMENTS
 Analytical Batch: WG1867027
 Analytical SDGs: L1495761
 Location: Baton Rouge, LA 70820

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER:

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A

Client Information:

Report To: Pace Analytical
Company Name: BGES
Address:
Pace Order #: L1495761
Project Name: Homer Airport
Project #: 38076

Section B

Required Project Information:

Report To: Pace Analytical Subout Team
Company Name: BGES
Address:
Pace Order #: L1495761
Project Name: Homer Airport
Project #: 38076

Section C

Invoice Information:

Attention: BGES
Company Name:
Address:
Pace Quote:
Pace Project Manager: Ruth Welsh
Pace Profile #: 38076

Table with columns: MATRIX CODE, COLLECTED (START/END DATE/TIME), SAMPLE TYPE, MATRIX CODE, PRESERVATIVES, ANALYSES TEST, REQUESTED ANALYSIS FILTERED, SAMPLE CONDITIONS.

Summary section with columns: ADDITIONAL COMMENTS, RELINQUISHED BY/AFFILIATION, DATE, TIME, ACCEPTED BY/AFFILIATION, DATE, TIME, SAMPLE CONDITIONS.

Report No: 06
Date: 06/13/2006

SB164-1
SB558-1
SB555-1
R2_DFR
Revision
James C Huckaba
Pace / PACE
5/20/2008 8:50:42
Y Y Y



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **BGES, Inc.**
 Billing Information: **Jayne Martin**
 Address: **1047 E 6th Ave #1501**
 Report To: **Jayne Martin**
 Email: **Jayne@BGESinc.com**
 Site Collection Info/Address: **Jayne@BGESinc.com**

Customer Project Name/Number: **Home Airport**
 State: **AK** County/City: **Homer** Time Zone Collected: **AK**
 Site/Facility ID #: **00107236**
 Compliance Monitoring? **[] Yes [] No**
 DW PWS ID #: **00107236**
 DW Location Code: **00107236**
 Immediately Packed on Ice: **[X] Yes [] No**
 Turnaround Date Required: **Standard TAT 15 Day**
 Rush: **[] Same Day [] Next Day [] 3 Day [] 4 Day [] 5 Day**
 Field Filtered (if applicable): **[] Yes [] No**
 Analysis: **[] Yes [] No**

Sample Disposal: **[] Return [] Dispose as appropriate [] Archiver: [] Hold:**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp/Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
SB167-1	SL	G	6-18-22	0455		1
SB134-3	SL	G	1536			1
SB166-1	SL	G	1529			1
SB136-1	SL	G	1558			1
SB150-1	SL	G	1238			1
SB134-1	SL	G	1531			1
SB149-1	SL	G	1151			1
SB137-1	SL	G	1611			1
SB154-1	SL	G	1128			1
SB135-1	SL	G	1544			1

Customer Remarks / Special Conditions / Possible Hazards: **Type of Ice Used: Wet Blue Dry None**
 Packing Material Used: **SHORT HOLDS PRESENT (<72 hours): Y N N/A**
 Radchem sample(s) screened (<500 cpm): **Y N NA**

Requested by/Company: (Signature) **Jayne Martin**
 Date/Time: **5-19-22 0830**
 Received by/Company: (Signature) **Jayne Martin**
 Date/Time: **5-19-22 8:50**
 Relinquished by/Company: (Signature) **Jayne Martin**
 Date/Time: **5-19-22 8:50**
 Received by/Company: (Signature) **Jayne Martin**
 Date/Time: **5-19-22 8:50**

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Container Preservative Type ** **U**

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

ALL SHADED AREAS are for LAB USE ONLY

Analyses	Y	N	NA
Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles Intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples Received on Ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:	Y	N	NA
Sample pH Acceptable	Y	N	NA
pH Strips:	Y	N	NA
Sulfide Present	Y	N	NA
Lead Acetate Strips:	Y	N	NA
LAB USE ONLY:			
Lab Sample # / Comments:			

Lab Sample Temperature Info:
 Temp Blank Received: **(Y) N NA**
 Therm ID#: **2682792**
 Cooler 1 Temp Upon Receipt: **oC**
 Cooler 1 Therm Corr. Factor: **oC**
 Cooler 1 Corrected Temp: **oC**
 Comments: **4.2**

Trip Blank Received: **Y N NA**
 HCL MeOH TSP Other

Non Conformance(s): **YES / NO**
 Page: **of:**



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **BGES, Inc.**
 Billing Information: **Sagez Math**
 Address: **1042 E 6th Ave**
 Email: **Sagez@BGESinc.com**
 Site Collection Info/Address: **Sagez@BGESinc.com**

Customer Project Name/Number: **Hone Airport**
 State: **AK** County/City: **Anchorage** Time Zone Collected: **AK**
 Phone: **907 644 2800** Site/Facility ID #: **AK Anchorage** Compliance Monitoring? **[] Yes [] No**
 Purchased By (print): **Sagez** DW PWS ID #: **0067286** DW Location Code: **AK Anchorage**
 Collected By (signature): **[Signature]** Turnaround Date Required: **Standard TAT - 15 Days** Immediately Packed on Ice: **[] Yes [] No**
 Sample Disposal: **[] Same Day [] Next Day** Field Filtered (if applicable): **[] Yes [] No**
 Rush: **[] 2 Day [] 3 Day [] 4 Day [] 5 Day** Analysis: **[] Yes [] No**
 Hold: **[] 2 Day [] 3 Day [] 4 Day [] 5 Day** (Expedite Charges Apply)

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
SB138-1	SL	G	5-18-22	1621		1
SB135-1	SL	G		1544		1
SB152-1	SL	G		1142		1
SB60-1	SL	G		1303		1
SB153-1	SL	G		1136		1
SB144-3	SL	G		1159		1
SB151-1	SL	G		1243		1
SB65-1	SL	G		1100		1
EB-518	WW	G		1755		2
SB43-2	SL	G		1573		1

Customer Remarks / Special Conditions / Possible Hazards: **Hold Sample SB43-2 for potential water analysis**

Type of Ice Used: **Wet Blue Dry None**

Packing Material Used: **None**

Radchem sample(s) screened (<500 cpm): **Y N NA**

Date/Time: **5-19-22 0830** Received by/Company: **[Signature] / PAC9**

Date/Time: **5-20-22 08:50** Received by/Company: **[Signature]**

Date/Time: **5-20-22 08:50** Received by/Company: **[Signature]**

Date/Time: **5-20-22 08:50** Received by/Company: **[Signature]**

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here

Container Preservative Type: **U**

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Sample/Line:	Receipt Checklist:
XX QSM S.3TABLE B15-PFAS	Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: Y N NA Sample pH Acceptable Y N NA pH Strips: Y N NA Sulfide Present Y N NA Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

Lab Sample Temperature Info:
 Temp Blank Received: **Y N NA**
 Therm ID#: **2682781**
 Cooler 1 Temp Upon Receipt: **41.2** °C
 Cooler 1 Therm Corr. Factor: **0** °C
 Cooler 1 Corrected Temp: **41.2** °C
 Comments: **41.2**

Trip Blank Received: **Y N NA**
 HCL MeOH TSP Other

Non Conformance(s): **YES / NO**
 Page: **1** of: **1**



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **BGES Inc.**
 Address: **1042 E 6th Ave 99501**
 Jayme Martin
 Email To: **Jayme@BGESinc.com**
 Site Collection Info/Address:

State: **AK** County/City: **Homer** Time Zone Collected: **AK**
 Compliance Monitoring: [] Yes [] No
 DW PWS ID #: [] Yes [] No
 DW Location Code: [] Yes [] No
 Immediately Packed on Ice: [] Yes [] No
 Field Filtered (if applicable): [] Yes [] No
 Analysis: _____

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW),
 Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Collected (or Composite Start)		Res Cl	# of Ctns
		Date	Time		
B0168-1	SL	5-18-22	0945		1
B0165-1	SL	5-18-22	1014		1
B0167-1	SL	5-18-22	0924		1
B0157-1	SL	5-18-22	1334		1
B0156-1	SL	5-18-22	1345		1
B0154-1	SL	5-18-22	1416		1
B0158-3	SL	5-18-22	1329		1
B0164-1	SL	5-18-22	1008		1
B0158-1	SL	5-18-22	1324		1
B0155-1	SL	5-18-22	1404		1

Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA
 Date/Time: **5-19-22 0830**
 Received by/Company: **Jayme Martin / BGES**
 Date/Time: _____
 Received by/Company: (Signature)
 Date/Time: _____
 Received by/Company: (Signature)
 Date/Time: _____
 Received by/Company: (Signature)
 Date/Time: _____
 Received by/Company: (Signature)
 Date/Time: _____
 Received by/Company: (Signature)
 Date/Time: _____

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Sample/Line:	Receipt Checklist:
QSM 5-3 TABLE B15 - PFAS	Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips: _____ Sample pH Acceptable Y N NA pH Strips: _____ Sulfide Present Y N NA Lead Acetate Strips: _____ LAB USE ONLY: Lab Sample # / Comments:

Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ °C
 Cooler 1 Therm Corr. Factor: _____ °C
 Cooler 1 Corrected Temp: _____ °C
 Comments: **4.2**
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non-Conformance(s): _____
 YES / NO Page: _____ of: _____

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **2682793**
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Date/Time: **5-20-22 8:50**
 Date/Time: _____
 Date/Time: _____
 Date/Time: _____



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:
 Billing Information: *Jayne Martin*
 Email To: *Jayne@BGESinc.com*
 Site Collection Info/Address: *Jayne@BGESinc.com*

Customer Project Name/Number:
 Project Name: *BGES*
 Project Number: *1042 E 6th Ave*

Customer Address:
 Address: *Jayne Martin*

State: *AK Anchorage*

Time Zone Collected: *AK*

Site/Facility ID #: *00107286*

Purchase Order #: *00107286*

Turnaround Date Required: *Standard TAT - 15 days*

Rush: Same Day Next Day 1-3 Day 1-5 Day 1-7 Day (Expedite Charges Apply)

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Time	Res Cl	# of Ctns
			Date	Time				
SB50-2	SL	G	5-18-22	17:09			1	
SB53-2	SL	G		17:44			1	
SB51-2	SL	G		17:19			1	
SB139-2	SL	G		14:34			1	
SB49-2	SL	G		16:16			1	
SB139-4	SL	G		14:36			1	
SB52-2	SL	G		17:32			1	
SB49-4	SL	G		16:44			1	
SB140-2	SL	G		14:44			1	
SB141-2	SL	G		14:59			1	

Customer Remarks / Special Conditions / Possible Hazards:
 Hold All Samples for potential water analysis by QSM-5.3 Table B15 - PFAS

Lab Sample Temperature Info:
 Temp Blank Received: *6* N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ oC
 Cooler 1 Therm Corr. Factor: _____ oC
 Cooler 1 Corrected Temp: _____ oC
 Comments: *4.2*

Lab Sample Temperature Info:
 Temp Blank Received: *6* N NA
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ oC
 Cooler 1 Therm Corr. Factor: _____ oC
 Cooler 1 Corrected Temp: _____ oC
 Comments: *4.2*

Lab Tracking #: *2682789*

Short Holds Present (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: *5-20-22 8:56*

Received by/Company: *VC / PACE*

Date/Time: _____

Received by/Company: (Signature)

Date/Time: _____

Received by/Company: (Signature)

Date/Time: _____

Received by/Company: (Signature)

Date/Time: _____

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

Analyses

Lab Profile/Line:

Receipt Checklist:

Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signatures Present Y N NA
 Bottles Intact Y N NA
 Corrupt Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____ Y N NA
 Sample pH Acceptable _____ Y N NA
 pH Strips: _____ Y N NA
 Sulfide Present _____ Y N NA
 Lead Acetate Strips: _____

LAB USE ONLY:
 Lab Sample # / Comments:

Lab Sample #	Matrix	Comp / Grab	Date	Time	Res Cl	# of Ctns	Analysis
SB50-2	SL	G	5-18-22	17:09		1	
SB53-2	SL	G		17:44		1	
SB51-2	SL	G		17:19		1	
SB139-2	SL	G		14:34		1	
SB49-2	SL	G		16:16		1	
SB139-4	SL	G		14:36		1	
SB52-2	SL	G		17:32		1	
SB49-4	SL	G		16:44		1	
SB140-2	SL	G		14:44		1	
SB141-2	SL	G		14:59		1	



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **BGES, Inc.**
 Billing Information: **Jayne Math**
 Address: **1042 E 6th Ave Anchorage AK**
 Email To: **Jayne@BGESinc.com**
 Site Collection Info/Address: **Jayne@BGESinc.com**

Customer Project Name/Number: **Homer Airport**
 State: **AK** County/City: **Anchorage** Time Zone Collected: **AK**
 Phone: **907-244-2406** Site/Facility ID #: **AK' Anchorage**
 Email: **Jayne@BGESinc.com**
 DW PWS ID #: **60167286**
 DW Location Code: **Starbird TAT - 15 days**
 Immediately Packed on Ice: **Yes**
 Field Filtered (if applicable): **Yes**
 Analysis: **15 Day**

Customer Sample ID	Matrix #	Comp / Grab	Collected (or Composite Start)		Composite End	Res Cl	# of Ctns
			Date	Time			
SB60-2	SL	0	5-18-22	1306			1
SB136-2	SL	0		1604			1
SB137-2	SL	0		1616			1
SB166-2	SL	0		1034			1
SB138-2	SL	0		1626			1
SB152-2	SL	0		1145			1
SB154-2	SL	0		1132			1
SB134-2	SL	0		1534			1
SB135-2	SL	0		1649			1
SB153-2	SL	0		1139			1

Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Turnaround Date required: **Starbird TAT - 15 days**

Rush: Same Day Next Day 15 Day (Expedite Charges Apply)

Sample Disposal: Dispose as appropriate Return

J Archive:

Collected By (signature): **[Signature]**

Lab Sample / Receipt CheckList:	Analyses	
	Lab Sample	Receipt CheckList
Custody Seals Present/Intact	Y N NA	
Custody Signatures Present	Y N NA	
Collector Signature Present	Y N NA	
Bottles Intact	Y N NA	
Correct Bottles	Y N NA	
Sufficient Volume	Y N NA	
Samples Received on Ice	Y N NA	
VOA - HeadSpace Acceptable	Y N NA	
USDA Regulated Soils	Y N NA	
Samples in Holding Time	Y N NA	
Residual Chlorine Present	Y N NA	
Cl Strips:	Y N NA	
Sample pH Acceptable	Y N NA	
pH Strips:	Y N NA	
Sulfide Present	Y N NA	
Lead Acetate Strips:	Y N NA	
LAB USE ONLY:		
Lab Sample # / Comments:		

Customer Remarks / Special Conditions / Possible Hazards:
Hold All Samples for Potential In situ analysis by QSM 5.3
Sample B15 - PFAS

Lab Sample Temperature Info: **Y N NA**
 Temp Blank Received: **Y N NA**
 Therm ID#: _____
 Cooler 1 Temp Upon Receipt: _____ oC
 Cooler 1 Therm Corr. Factor: _____ oC
 Cooler 1 Corrected Temp: _____ oC

Comments: **4.2**

Lab Tracking #: **2682786**

Short Holds Present (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: **5.20.22 9:30**

Received by/Company: **[Signature] / PACE**

Date/Time: _____

Received by/Company: (Signature)

Date/Time: _____

Received by/Company: (Signature)

Date/Time: _____

Received by/Company: (Signature)

Date/Time: _____

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

U

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:

Lab Sample: **QSM 5.3 Table B15 - PFAS**

Receipt CheckList:

Custody Seals Present/Intact Y N NA

Custody Signatures Present Y N NA

Collector Signature Present Y N NA

Bottles Intact Y N NA

Correct Bottles Y N NA

Sufficient Volume Y N NA

Samples Received on Ice Y N NA

VOA - HeadSpace Acceptable Y N NA

USDA Regulated Soils Y N NA

Samples in Holding Time Y N NA

Residual Chlorine Present Y N NA

Cl Strips: Y N NA

Sample pH Acceptable Y N NA

pH Strips: Y N NA

Sulfide Present Y N NA

Lead Acetate Strips: Y N NA

LAB USE ONLY:

Lab Sample # / Comments:

Lab Sample # / Comments:

Temp Blank Received: Y N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: _____ oC

Cooler 1 Therm Corr. Factor: _____ oC

Cooler 1 Corrected Temp: _____ oC

Comments: **4.2**

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s):

YES / NO

Page: _____

of: _____

Chain-of-Custody Analytical Request Document
 Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Customer Information:
 Billing Information: *Jayne Math*
 Email To: *Jayne@B6ES Inc.com*
 Site Collection Info/Address: *Jayne@B6ES Inc.com*

Customer Project Name/Number:
Home Air port
 one: *607 644 2800*
 Email: *Jayne@B6ES Inc*

Collector Information:
 Collector Name: *Jan Bundy*
 Collector Signature: *[Signature]*
 Collector Date Required: *Standard TAT - 15 Days*

Sample Information:
 Sample ID #: *00107286*
 DW Location Code: *Standard TAT - 15 Days*
 Field Filtered (if applicable): *[] Yes [] No*
 Analysis: _____

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Collected (or Composite Start)		Res CI	# of Ctns
		Date	Time		
SB142-2	SL	5-13-22	15:13		1
SB151-2	SL	12-5-23			1
SB150-2	SL	12-4-23			1
SB150-4	SL	12-4-23			1
SB165-2	SL	11-05-23			1
SB149-2	SL	11-05-23			1
SB154-2	SL	10-11-23			1
SB164-2	SL	10-11-23			1
SB165-2	SL	10-18-23			1
SB167-2	SL	10-18-23			1

Customer Remarks / Special Conditions / Possible Hazards:
 Hold All Samples for Potential future analysis by QSM 5.3
 12:15 - PFAS

Signature and Date:
 Inquired by/Company: *[Signature] B6ES*
 Date/Time: *5/14/22 08:30*
 Received by/Company: *[Signature] PACE*
 Date/Time: _____

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Container Preservative Type **
 U
 Lab Project Manager: _____

Analyses
 Lab Profile/Line: _____
 Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____
 Sample pH Acceptable Y N NA
 pH Strips: _____
 Sulfide Present Y N NA
 Lead Acetate Strips: _____
 LAB USE ONLY: _____
 Lab Sample # / Comments: _____

Lab Sample Receipt Checklist:
 Custody Seals Present/Intact Y N NA
 Custody Signatures Present Y N NA
 Collector Signature Present Y N NA
 Bottles Intact Y N NA
 Correct Bottles Y N NA
 Sufficient Volume Y N NA
 Samples Received on Ice Y N NA
 VOA - Headspace Acceptable Y N NA
 USDA Regulated Soils Y N NA
 Samples in Holding Time Y N NA
 Residual Chlorine Present Y N NA
 Cl Strips: _____
 Sample pH Acceptable Y N NA
 pH Strips: _____
 Sulfide Present Y N NA
 Lead Acetate Strips: _____
 LAB USE ONLY: _____
 Lab Sample # / Comments: _____

Lab Sample Temperature Info:
 Temp Blank Received: *Y* NA
 Therm ID#: *2682790*
 Cooler 1 Temp Upon Receipt: _____ oC
 Cooler 1 Therm Corr. Factor: _____ oC
 Cooler 1 Corrected Temp: _____ oC
 Comments: *4.2*

Lab Tracking #: 2682790
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Date/Time: 5-20-22 8:50
 Date/Time: _____
 Date/Time: _____

Table #: _____
Acctnum: _____
Template: _____
Prelogin: _____
PM: _____
PB: _____

Received by/Company: (Signature)
[Signature] PACE
Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **BGES**
 Address: **1042 E 6th Ave**
 Reports To: **Jayne Math**
 Copy To: **Jayne Math**
 Billing Information:
Jayne Math
Jayne@BGESinc.com
Jayne@BGESinc.com

Customer Project Name/Number: **AK' Anchorage**
 State: **AK** County/City: **Anchorage** Time Zone Collected: **AK**
 Phone: **907-644-2900** Site/Facility ID #: **AK' Anchorage**
 Email: **Jayne@BGESinc.com**
 Site Collection Info/Address:
 Purchase Order #: **00107286**
 Quote #: **00107286**
 Turnaround Date Required: **Standard TAT - 15 days**
 Rush: Same Day Next Day
 2 Day 4 Day 5 Day
 (Expedite Charges Apply)

Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Collected (or Composite Start)		Composite End Date	Res CI	# of Ctns
		Date	Time			
SB55-2	SL	5-18-22	1409			1
SB167-2	SL		0959			1
SB58-2	SL		1330			1
SB67-2	SL		0926			1
SB56-2	SL		1350			1
SB168-2	SL		0941			1

Customer Remarks / Special Conditions / Possible Hazards:
Hold All Samples for Potential Water Analysis by OSM 6-3
Trace B15-PFAS

Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA
 Date/Time: **5-18-22** Received by/Company: (Signature)
0830 Received by/Company: (Signature)
 Date/Time: Received by/Company: (Signature)
 Date/Time: Received by/Company: (Signature)

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Sample	Receipt Checklist:
XXXXX DSH 5.3 Table B15-PFAS	Custody Seals Present/Intact Y N NA Custody Signatures Present Y N NA Collector Signature Present Y N NA Bottles Intact Y N NA Correct Bottles Y N NA Sufficient Volume Y N NA Samples Received on Ice Y N NA VOA - Headspace Acceptable Y N NA USDA Regulated Soils Y N NA Samples in Holding Time Y N NA Residual Chlorine Present Y N NA Cl Strips Y N NA Sample pH Acceptable Y N NA pH Strips Y N NA Sulfide Present Y N NA Lead Acetate Strips: Y N NA Lab USE ONLY: Lab Sample # / Comments:

SHORT HOLDS PRESENT (<72 hours): Y N N/A
 Lab Tracking #: **2682788**
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Date/Time: **5-20-22 8:50**
 Date/Time: MTJL LAB USE ONLY
 Date/Time: Table #:
 Date/Time: Acctnum:
 Date/Time: Template:
 Date/Time: Prelogin:
 Date/Time: PM:
 Date/Time: PB:
 Lab Sample Temperature Info:
 Temp Blank Received: Y N NA
 Therm ID#: **4.2**
 Cooler 1 Temp Upon Receipt: oC
 Cooler 1 Therm Corr. Factor: oC
 Cooler 1 Corrected Temp: oC
 Comments:
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: of:



DC#_Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name:

PACE analytical

Project #:

WO#: 10609490

Courier:

- Fed Ex, UPS, USPS, Client, Pace, Speedee, Commercial

PM: KV

Due Date: 06/13/22

CLIENT: ESC_TN

Tracking Number: 273328729846

See Exceptions ENV-FRM-MIN4-0142

Custody Seal on Cooler/Box Present? Yes No

Seals Intact? Yes No

Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap, Bubble Bags, None

Other: plastic bag

Temp Blank? Yes No

Thermometer: T1(0461), T2(1336), T3(0459), T4(0254), T5(0489), T6(0235), T7(0042), 01339252/1710, 122639816, 140792808

Type of Ice: Wet, Blue, None, Dry, Melted

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: 4.2 °C Correction Factor: true Cooler Temp Corrected w/temp blank: 4.2 °C

Average Corrected Temp (no temp blank only): °C See Exceptions ENV-FRM-MIN4-0142 1 Container

USDA Regulated Soil: () N/A, water sample/Other: ()

Date/Initials of Person Examining Contents: ED 5.23.22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Table with 2 columns: Location (check one) and COMMENTS. Rows include Chain of Custody Present and Filled Out?, Chain of Custody Relinquished?, Sampler Name and/or Signature on COC?, Samples Arrived within Hold Time?, Short Hold Time Analysis (<72 hr)?, Rush Turn Around Time Requested?, Sufficient Volume?, Correct Containers Used?, Containers Intact?, Field Filtered Volume Received for Dissolved Tests?, Is sufficient information available to reconcile the samples to the COC?, All containers needing acid/base preservation have been checked?, All containers needing preservation are found to be in compliance with EPA recommendation?, Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS, Headspace in Methyl Mercury Container?, Extra labels present on soil VOA or WIDRO containers?, Headspace in VOA Vials (greater than 6mm)?, Trip Blank Present?, Trip Blank Custody Seals Present?

CLIENT NOTIFICATION/RESOLUTION

Person Contacted:

Date/Time:

Field Data Required? Yes No

Comments/Resolution: Client requested sample ID for Pace sample 019 to be updated to SB62-1.

Project Manager Review:

Date: 5/24/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect container)

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10609490001	SB143-1	SW3535	33258	PFAS-36	B220609B_01
10609490002	SB140-1	SW3535	33258	PFAS-36	B220609B_01
10609490003	SB53-1	SW3535	33258	PFAS-36	B220609B_01
10609490004	SB141-1	SW3535	33258	PFAS-36	B220609B_01
10609490005	SB51-1	SW3535	33258	PFAS-36	B220609B_01
10609490006	SB50-1	SW3535	33258	PFAS-36	B220609B_01
10609490007	SB49-1	SW3535	33258	PFAS-36	B220609B_01
10609490008	SB139-1	SW3535	33258	PFAS-36	B220609B_01
10609490009	SB52-1	SW3535	33258	PFAS-36	B220609B_01
10609490010	SB142-1	SW3535	33259	PFAS-36	B220610B_00
10609490011	SB167-1	SW3535	33259	PFAS-36	B220610B_00
10609490012	SB134-3	SW3535	33259	PFAS-36	B220610B_00
10609490013	SB166-1	SW3535	33259	PFAS-36	B220610B_00
10609490014	SB136-1	SW3535	33259	PFAS-36	B220610B_00
10609490015	SB150-1	SW3535	33259	PFAS-36	B220610B_00
10609490016	SB134-1	SW3535	33259	PFAS-36	B220610B_00
10609490017	SB149-1	SW3535	33259	PFAS-36	B220610B_00
10609490018	SB137-1	SW3535	33259	PFAS-36	B220610B_01
10609490019	SB62-1	SW3535	33259	PFAS-36	B220610B_01
10609490020	SB135-1	SW3535	33259	PFAS-36	B220610B_01
10609490021	SB138-1	SW3535	33259	PFAS-36	B220610B_01
10609490023	SB152-1	SW3535	33259	PFAS-36	B220610B_01
10609490024	SB60-1	SW3535	33259	PFAS-36	B220610B_01
10609490025	SB153-1	SW3535	33259	PFAS-36	B220610B_01
10609490026	SB149-3	SW3535	33259	PFAS-36	B220610B_01
10609490027	SB151-1	SW3535	33259	PFAS-36	B220610B_01
10609490028	SB65-1	SW3535	33259	PFAS-36	B220610B_01
10609490029	EB-518	SW3535	33229	PFAS-36	B220606A_04
10609490031	SB168-1	SW3535	33259	PFAS-36	B220614A_00
10609490032	SB165-1	SW3535	33259	PFAS-36	B220614A_00
10609490033	SB67-1	SW3535	33260	PFAS-36	Q220616B_00
10609490034	SB57-1	SW3535	33260	PFAS-36	Q220616B_00
10609490035	SB56-1	SW3535	33260	PFAS-36	Q220616B_00
10609490036	SB54-1	SW3535	33260	PFAS-36	Q220616B_00
10609490037	SB58-3	SW3535	33260	PFAS-36	Q220616B_00
10609490038	SB164-1	SW3535	33260	PFAS-36	Q220616B_00
10609490039	SB58-1	SW3535	33260	PFAS-36	Q220616B_00
10609490040	SB55-1	SW3535	33260	PFAS-36	Q220616B_00

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Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDEInterference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB143-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490001	Total Amount Extracted	5.10g
Lab File ID	B220609B_018	Percent Moisture	23.5742%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:18	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.13	0.13	0.03	1	375-22-4		06/10/2022 03:52
PFPeA	ND	0.13	0.13	0.03	1	2706-90-3		06/10/2022 03:52
HFPO-DA	ND	0.13	0.13	0.03	1	13252-13-6		06/10/2022 03:52
PFBS	ND	0.11	0.11	0.02	1	375-73-5		06/10/2022 03:52
PFHxA	ND	0.13	0.13	0.03	1	307-24-4		06/10/2022 03:52
4:2 FTS	ND	0.12	0.12	0.04	1	757124-72-4		06/10/2022 03:52
PFPeS	ND	0.12	0.12	0.02	1	2706-91-4		06/10/2022 03:52
PFHpA	ND	0.13	0.13	0.02	1	375-85-9		06/10/2022 03:52
DONA	ND	0.12	0.12	0.04	1	919005-14-4		06/10/2022 03:52
PFHxS	ND	0.12	0.12	0.02	1	355-46-4		06/10/2022 03:52
PFOA	ND	0.13	0.13	0.02	1	335-67-1		06/10/2022 03:52
6:2 FTS	ND	0.12	0.12	0.04	1	27619-97-2		06/10/2022 03:52
PFHpS	ND	0.12	0.12	0.03	1	375-92-8		06/10/2022 03:52
PFNA	ND	0.13	0.13	0.03	1	375-95-1		06/10/2022 03:52
PFOSAm	ND	0.13	0.13	0.03	1	754-91-6		06/10/2022 03:52
PFOS	ND	0.12	0.12	0.03	1	1763-23-1		06/10/2022 03:52
MeFOSA	ND	0.13	0.13	0.03	1	31506-32-8		06/10/2022 03:52
PFDA	ND	0.13	0.13	0.02	1	335-76-2		06/10/2022 03:52
8:2 FTS	ND	0.12	0.12	0.03	1	39108-34-4		06/10/2022 03:52
9-CI-PF3ON	ND	0.12	0.12	0.01	1	756426-58-1		06/10/2022 03:52
PFNS	ND	0.12	0.12	0.02	1	68259-12-1		06/10/2022 03:52
PFUnDA	ND	0.13	0.13	0.03	1	2058-94-8		06/10/2022 03:52
NMeFOSAA	ND	0.13	0.13	0.03	1	2355-31-9		06/10/2022 03:52
NEtFOSAA	ND	0.13	0.13	0.03	1	2991-50-6		06/10/2022 03:52
PFDS	ND	0.12	0.12	0.03	1	335-77-3		06/10/2022 03:52
PFDOA	ND	0.13	0.13	0.03	1	307-55-1		06/10/2022 03:52
11-CI-PF3OUdS	ND	0.12	0.12	0.02	1	763051-92-9		06/10/2022 03:52
PFTTrDA	ND	0.13	0.13	0.02	1	72629-94-8		06/10/2022 03:52
PFTDA	ND	0.13	0.13	0.04	1	376-06-7		06/10/2022 03:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB143-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490001	Total Amount Extracted	5.10g
Lab File ID	B220609B_018	Percent Moisture	23.5742%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:18	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	1.5	119	50-150		06/10/2022 03:52
13C4 PFOA	1.3	1.5	119	50-150		06/10/2022 03:52
13C2 PFDA	1.3	1.5	118	50-150		06/10/2022 03:52
13C4 PFOS	1.2	1.4	118	50-150		06/10/2022 03:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	1.3	101	50-150		06/10/2022 03:52
13C5 PFPeA	1.3	1.3	105	50-150		06/10/2022 03:52
13C3 PFBS	1.2	1.2	104	50-150		06/10/2022 03:52
13C2 4:2FTS	1.2	1.4	115	50-150		06/10/2022 03:52
13C5 PFHxA	1.3	1.4	110	50-150		06/10/2022 03:52
13C4 PFHpA	1.3	1.3	103	50-150		06/10/2022 03:52
13C3 PFHxS	1.2	1.3	105	50-150		06/10/2022 03:52
13C2 6:2FTS	1.2	1.4	116	50-150		06/10/2022 03:52
13C8 PFOA	1.3	1.3	99	50-150		06/10/2022 03:52
13C9 PFNA	1.3	1.4	107	50-150		06/10/2022 03:52
13C8 PFOS	1.2	1.4	114	50-150		06/10/2022 03:52
13C2 8:2FTS	1.2	1.2	101	50-150		06/10/2022 03:52
13C6 PFDA	1.3	1.3	99	50-150		06/10/2022 03:52
d3-MeFOSAA	1.3	1.4	108	50-150		06/10/2022 03:52
13C8 PFOSA	1.3	0.55	43	50-150	R	06/10/2022 03:52
d5-EtFOSAA	1.3	1.4	107	50-150		06/10/2022 03:52
13C7 PFUdA	1.3	1.3	98	50-150		06/10/2022 03:52
13C2 PFDoA	1.3	1.4	106	50-150		06/10/2022 03:52
13C2 PFTeDA	1.3	1.3	105	50-150		06/10/2022 03:52
13C3 HFPO-DA	1.3	1.3	103	50-150		06/10/2022 03:52
d3-N-MeFOSA	1.3	0.0016	0	10-150	R	06/10/2022 03:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB143-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490001	Total Amount Extracted	5.10g
Lab File ID	B220609B_018	Percent Moisture	23.5742%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:18	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	1552		06/10/2022 03:52
13C4 PFOA	N/A	N/A	7.25	7.15	2390		06/10/2022 03:52
13C2 PFDA	N/A	N/A	8.65	8.57	2673		06/10/2022 03:52
13C4 PFOS	N/A	N/A	9.16	9.07	2509		06/10/2022 03:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.37	2470		06/10/2022 03:52
13C5 PFPeA	N/A	N/A	5.15	5.15	1829		06/10/2022 03:52
13C3 PFBS	N/A	N/A	6.14	6.16	2776		06/10/2022 03:52
13C2 4:2FTS	N/A	N/A	5.57	5.56	655		06/10/2022 03:52
13C5 PFHxA	N/A	N/A	5.87	5.85	1653		06/10/2022 03:52
13C4 PFHpA	N/A	N/A	6.57	6.54	1627		06/10/2022 03:52
13C3 PFHxS	N/A	N/A	7.70	7.66	1957		06/10/2022 03:52
13C2 6:2FTS	N/A	N/A	6.90	6.86	1190		06/10/2022 03:52
13C8 PFOA	N/A	N/A	7.25	7.22	2933		06/10/2022 03:52
13C9 PFNA	N/A	N/A	7.95	7.90	2211		06/10/2022 03:52
13C8 PFOS	N/A	N/A	9.16	9.12	2525		06/10/2022 03:52
13C2 8:2FTS	N/A	N/A	8.25	8.20	2694		06/10/2022 03:52
13C6 PFDA	N/A	N/A	8.65	8.61	2096		06/10/2022 03:52
d3-MeFOSAA	N/A	N/A	8.50	8.46	2883		06/10/2022 03:52
13C8 PFOSA	N/A	N/A	10.93	10.88	2355	R	06/10/2022 03:52
d5-EtFOSAA	N/A	N/A	8.82	8.77	999		06/10/2022 03:52
13C7 PFUdA	N/A	N/A	9.35	9.31	2606		06/10/2022 03:52
13C2 PFDoA	N/A	N/A	10.05	10.01	1189		06/10/2022 03:52
13C2 PFTeDA	N/A	N/A	11.38	11.36	1682		06/10/2022 03:52
13C3 HFPO-DA	N/A	N/A	6.16	6.13	1699		06/10/2022 03:52
d3-N-MeFOSA	N/A	N/A	12.83	12.85	15	R	06/10/2022 03:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB143-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490001	Total Amount Extracted	5.10g
Lab File ID	B220609B_018	Percent Moisture	23.5742%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:18	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.31	4.36	ND		06/10/2022 03:52
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 03:52
HFPO-DA	0.28	0.28	6.17	6.14	ND		06/10/2022 03:52
PFBS	0.56	0.44	6.14	6.14	ND		06/10/2022 03:52
PFHxA	0.15	0.08	5.87	5.84	ND		06/10/2022 03:52
4:2 FTS	0.00	0.97	0.00	5.56	ND		06/10/2022 03:52
PFPeS	0.00	0.39	0.00	6.89	ND		06/10/2022 03:52
PFHpA	0.23	0.28	6.58	6.50	ND		06/10/2022 03:52
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 03:52
PFHxS	0.75	0.34	7.72	7.65	ND		06/10/2022 03:52
PFOA	0.44	0.35	7.26	7.22	ND		06/10/2022 03:52
6:2 FTS	0.00	1.00	0.00	6.86	ND		06/10/2022 03:52
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 03:52
PFNA	0.14	0.15	7.96	7.91	ND		06/10/2022 03:52
PFOSAm	N/A	N/A	10.92	10.89	ND		06/10/2022 03:52
PFOS	0.46	0.36	9.17	9.11	ND		06/10/2022 03:52
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 03:52
PFDA	0.00	0.17	0.00	8.59	ND		06/10/2022 03:52
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 03:52
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 03:52
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 03:52
PFUnDA	0.00	0.14	0.00	9.32	ND		06/10/2022 03:52
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 03:52
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 03:52
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 03:52
PFDOA	0.00	0.17	0.00	10.02	ND		06/10/2022 03:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 03:52
PFTrDA	0.00	0.15	0.00	10.70	ND		06/10/2022 03:52
PFTDA	0.29	0.23	11.37	11.36	ND		06/10/2022 03:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB140-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490002	Total Amount Extracted	5.06g
Lab File ID	B220609B_019	Percent Moisture	10.3396%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:41	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 04:12
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 04:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 04:12
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 04:12
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 04:12
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 04:12
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 04:12
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 04:12
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 04:12
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 04:12
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 04:12
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 04:12
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 04:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 04:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 04:12
PFOS	0.15	0.10	0.10	0.03	1	1763-23-1		06/10/2022 04:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 04:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 04:12
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 04:12
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 04:12
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 04:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 04:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 04:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 04:12
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 04:12
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 04:12
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 04:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 04:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 04:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB140-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490002	Total Amount Extracted	5.06g
Lab File ID	B220609B_019	Percent Moisture	10.3396%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:41	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	118	50-150		06/10/2022 04:12
13C4 PFOA	1.1	1.3	118	50-150		06/10/2022 04:12
13C2 PFDA	1.1	1.4	124	50-150		06/10/2022 04:12
13C4 PFOS	1.1	1.3	120	50-150		06/10/2022 04:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	102	50-150		06/10/2022 04:12
13C5 PFPeA	1.1	1.2	105	50-150		06/10/2022 04:12
13C3 PFBS	1.0	1.1	110	50-150		06/10/2022 04:12
13C2 4:2FTS	1.0	1.2	119	50-150		06/10/2022 04:12
13C5 PFHxA	1.1	1.1	103	50-150		06/10/2022 04:12
13C4 PFHpA	1.1	1.1	102	50-150		06/10/2022 04:12
13C3 PFHxS	1.0	1.1	109	50-150		06/10/2022 04:12
13C2 6:2FTS	1.0	1.2	116	50-150		06/10/2022 04:12
13C8 PFOA	1.1	1.1	101	50-150		06/10/2022 04:12
13C9 PFNA	1.1	1.2	109	50-150		06/10/2022 04:12
13C8 PFOS	1.1	1.1	105	50-150		06/10/2022 04:12
13C2 8:2FTS	1.1	1.0	99	50-150		06/10/2022 04:12
13C6 PFDA	1.1	1.2	110	50-150		06/10/2022 04:12
d3-MeFOSAA	1.1	1.2	106	50-150		06/10/2022 04:12
13C8 PFOSA	1.1	1.1	98	50-150		06/10/2022 04:12
d5-EtFOSAA	1.1	1.2	105	50-150		06/10/2022 04:12
13C7 PFUdA	1.1	1.2	106	50-150		06/10/2022 04:12
13C2 PFDoA	1.1	1.2	106	50-150		06/10/2022 04:12
13C2 PFTeDA	1.1	1.2	107	50-150		06/10/2022 04:12
13C3 HFPO-DA	1.1	1.1	104	50-150		06/10/2022 04:12
d3-N-MeFOSA	1.1	0.11	10	10-150		06/10/2022 04:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB140-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490002	Total Amount Extracted	5.06g
Lab File ID	B220609B_019	Percent Moisture	10.3396%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:41	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1610		06/10/2022 04:12
13C4 PFOA	N/A	N/A	7.28	7.15	2378		06/10/2022 04:12
13C2 PFDA	N/A	N/A	8.63	8.57	2847		06/10/2022 04:12
13C4 PFOS	N/A	N/A	9.14	9.07	2188		06/10/2022 04:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2322		06/10/2022 04:12
13C5 PFPeA	N/A	N/A	5.15	5.15	1975		06/10/2022 04:12
13C3 PFBS	N/A	N/A	6.14	6.16	3320		06/10/2022 04:12
13C2 4:2FTS	N/A	N/A	5.57	5.56	849		06/10/2022 04:12
13C5 PFHxA	N/A	N/A	5.86	5.85	1861		06/10/2022 04:12
13C4 PFHpA	N/A	N/A	6.58	6.54	1796		06/10/2022 04:12
13C3 PFHxS	N/A	N/A	7.71	7.66	1691		06/10/2022 04:12
13C2 6:2FTS	N/A	N/A	6.92	6.86	1258		06/10/2022 04:12
13C8 PFOA	N/A	N/A	7.28	7.22	3009		06/10/2022 04:12
13C9 PFNA	N/A	N/A	7.96	7.90	2663		06/10/2022 04:12
13C8 PFOS	N/A	N/A	9.14	9.12	1807		06/10/2022 04:12
13C2 8:2FTS	N/A	N/A	8.25	8.20	6685392		06/10/2022 04:12
13C6 PFDA	N/A	N/A	8.64	8.61	1823		06/10/2022 04:12
d3-MeFOSAA	N/A	N/A	8.49	8.46	2217		06/10/2022 04:12
13C8 PFOSA	N/A	N/A	10.93	10.88	2556		06/10/2022 04:12
d5-EtFOSAA	N/A	N/A	8.80	8.77	1035		06/10/2022 04:12
13C7 PFUdA	N/A	N/A	9.33	9.31	2828		06/10/2022 04:12
13C2 PFDoA	N/A	N/A	10.04	10.01	1644		06/10/2022 04:12
13C2 PFTeDA	N/A	N/A	11.39	11.36	2061		06/10/2022 04:12
13C3 HFPO-DA	N/A	N/A	6.16	6.13	2004		06/10/2022 04:12
d3-N-MeFOSA	N/A	N/A	12.85	12.85	459		06/10/2022 04:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB140-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490002	Total Amount Extracted	5.06g
Lab File ID	B220609B_019	Percent Moisture	10.3396%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:41	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 04:12
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 04:12
HFPO-DA	0.33	0.28	6.17	6.14	ND		06/10/2022 04:12
PFBS	0.24	0.44	6.15	6.14	ND		06/10/2022 04:12
PFHxA	0.08	0.08	5.87	5.84	ND		06/10/2022 04:12
4:2 FTS	0.00	0.97	0.00	5.56	ND		06/10/2022 04:12
PFPeS	1.00	0.39	6.97	6.89	ND		06/10/2022 04:12
PFHpA	0.28	0.28	6.59	6.50	ND		06/10/2022 04:12
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 04:12
PFHxS	0.38	0.34	7.72	7.65	ND		06/10/2022 04:12
PFOA	0.34	0.35	7.28	7.22	ND		06/10/2022 04:12
6:2 FTS	0.00	1.00	0.00	6.86	ND		06/10/2022 04:12
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 04:12
PFNA	0.10	0.15	7.96	7.91	ND		06/10/2022 04:12
PFOSAm	N/A	N/A	10.95	10.89	ND		06/10/2022 04:12
PFOS	0.41	0.36	9.15	9.11	444		06/10/2022 04:12
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 04:12
PFDA	0.23	0.17	8.65	8.59	ND		06/10/2022 04:12
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 04:12
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 04:12
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 04:12
PFUnDA	0.11	0.14	9.35	9.32	ND		06/10/2022 04:12
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 04:12
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 04:12
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 04:12
PFDOA	0.18	0.17	10.05	10.02	ND		06/10/2022 04:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 04:12
PFTrDA	0.00	0.15	0.00	10.70	ND		06/10/2022 04:12
PFTDA	0.19	0.23	11.38	11.36	ND		06/10/2022 04:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB53-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490003	Total Amount Extracted	5.13g
Lab File ID	B220609B_020	Percent Moisture	9.4435%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:38	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 04:32
PFPeA	0.37	0.11	0.11	0.02	1	2706-90-3		06/10/2022 04:32
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 04:32
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 04:32
PFHxA	0.23	0.11	0.11	0.03	1	307-24-4		06/10/2022 04:32
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 04:32
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 04:32
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 04:32
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 04:32
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 04:32
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 04:32
6:2 FTS	1.3	0.10	0.10	0.03	1	27619-97-2		06/10/2022 04:32
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 04:32
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 04:32
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 04:32
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 04:32
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 04:32
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 04:32
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 04:32
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 04:32
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 04:32
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 04:32
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 04:32
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 04:32
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 04:32
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 04:32
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 04:32
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 04:32
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 04:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB53-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490003	Total Amount Extracted	5.13g
Lab File ID	B220609B_020	Percent Moisture	9.4435%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:38	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	108	50-150		06/10/2022 04:32
13C4 PFOA	1.1	1.2	111	50-150		06/10/2022 04:32
13C2 PFDA	1.1	1.2	108	50-150		06/10/2022 04:32
13C4 PFOS	1.0	1.2	113	50-150		06/10/2022 04:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	94	50-150		06/10/2022 04:32
13C5 PFPeA	1.1	1.0	96	50-150		06/10/2022 04:32
13C3 PFBS	1.0	0.96	96	50-150		06/10/2022 04:32
13C2 4:2FTS	1.0	0.99	99	50-150		06/10/2022 04:32
13C5 PFHxA	1.1	1.1	102	50-150		06/10/2022 04:32
13C4 PFHpA	1.1	1.1	99	50-150		06/10/2022 04:32
13C3 PFHxS	1.0	0.97	96	50-150		06/10/2022 04:32
13C2 6:2FTS	1.0	1.1	109	50-150		06/10/2022 04:32
13C8 PFOA	1.1	1.00	93	50-150		06/10/2022 04:32
13C9 PFNA	1.1	1.1	103	50-150		06/10/2022 04:32
13C8 PFOS	1.0	1.1	108	50-150		06/10/2022 04:32
13C2 8:2FTS	1.0	1.0	98	50-150		06/10/2022 04:32
13C6 PFDA	1.1	1.1	98	50-150		06/10/2022 04:32
d3-MeFOSAA	1.1	0.99	92	50-150		06/10/2022 04:32
13C8 PFOSA	1.1	0.53	49	50-150	R	06/10/2022 04:32
d5-EtFOSAA	1.1	1.1	100	50-150		06/10/2022 04:32
13C7 PFUdA	1.1	1.1	102	50-150		06/10/2022 04:32
13C2 PFDoA	1.1	1.0	96	50-150		06/10/2022 04:32
13C2 PFTeDA	1.1	1.0	97	50-150		06/10/2022 04:32
13C3 HFPO-DA	1.1	1.1	100	50-150		06/10/2022 04:32
d3-N-MeFOSA	1.1	0.0078	1	10-150	R	06/10/2022 04:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB53-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490003	Total Amount Extracted	5.13g
Lab File ID	B220609B_020	Percent Moisture	9.4435%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:38	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1680		06/10/2022 04:32
13C4 PFOA	N/A	N/A	7.26	7.15	2590		06/10/2022 04:32
13C2 PFDA	N/A	N/A	8.64	8.57	2090		06/10/2022 04:32
13C4 PFOS	N/A	N/A	9.14	9.07	2281		06/10/2022 04:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2030		06/10/2022 04:32
13C5 PFPeA	N/A	N/A	5.16	5.15	1899		06/10/2022 04:32
13C3 PFBS	N/A	N/A	6.14	6.16	2660		06/10/2022 04:32
13C2 4:2FTS	N/A	N/A	5.57	5.56	616		06/10/2022 04:32
13C5 PFHxA	N/A	N/A	5.86	5.85	1560		06/10/2022 04:32
13C4 PFHpA	N/A	N/A	6.57	6.54	1723		06/10/2022 04:32
13C3 PFHxS	N/A	N/A	7.70	7.66	1819		06/10/2022 04:32
13C2 6:2FTS	N/A	N/A	6.91	6.86	1222		06/10/2022 04:32
13C8 PFOA	N/A	N/A	7.26	7.22	2691		06/10/2022 04:32
13C9 PFNA	N/A	N/A	7.96	7.90	2861		06/10/2022 04:32
13C8 PFOS	N/A	N/A	9.14	9.12	2432		06/10/2022 04:32
13C2 8:2FTS	N/A	N/A	8.25	8.20	2749		06/10/2022 04:32
13C6 PFDA	N/A	N/A	8.64	8.61	1864		06/10/2022 04:32
d3-MeFOSAA	N/A	N/A	8.50	8.46	3561		06/10/2022 04:32
13C8 PFOSA	N/A	N/A	10.92	10.88	2060	R	06/10/2022 04:32
d5-EtFOSAA	N/A	N/A	8.80	8.77	833		06/10/2022 04:32
13C7 PFUdA	N/A	N/A	9.33	9.31	2573		06/10/2022 04:32
13C2 PFDoA	N/A	N/A	10.03	10.01	1410		06/10/2022 04:32
13C2 PFTeDA	N/A	N/A	11.37	11.36	1654		06/10/2022 04:32
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1768		06/10/2022 04:32
d3-N-MeFOSA	N/A	N/A	12.84	12.85	117	R	06/10/2022 04:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB53-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490003	Total Amount Extracted	5.13g
Lab File ID	B220609B_020	Percent Moisture	9.4435%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:38	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 04:32
PFPeA	N/A	N/A	5.17	5.14	533		06/10/2022 04:32
HFPO-DA	0.21	0.28	6.17	6.14	ND		06/10/2022 04:32
PFBS	0.46	0.44	6.14	6.14	ND		06/10/2022 04:32
PFHxA	0.08	0.08	5.87	5.84	315		06/10/2022 04:32
4:2 FTS	0.58	0.97	5.58	5.56	ND		06/10/2022 04:32
PFPeS	0.46	0.39	6.96	6.89	ND		06/10/2022 04:32
PFHpA	0.26	0.28	6.58	6.50	ND		06/10/2022 04:32
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 04:32
PFHxS	0.34	0.34	7.71	7.65	ND		06/10/2022 04:32
PFOA	0.34	0.35	7.27	7.22	ND		06/10/2022 04:32
6:2 FTS	0.92	1.00	6.91	6.86	7547		06/10/2022 04:32
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 04:32
PFNA	0.15	0.15	7.96	7.91	ND		06/10/2022 04:32
PFOSAm	N/A	N/A	10.95	10.89	ND		06/10/2022 04:32
PFOS	0.31	0.36	8.93	9.11	ND		06/10/2022 04:32
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 04:32
PFDA	0.00	0.17	0.00	8.59	ND		06/10/2022 04:32
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 04:32
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 04:32
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 04:32
PFUnDA	0.00	0.14	0.00	9.32	ND		06/10/2022 04:32
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 04:32
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 04:32
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 04:32
PFDOA	0.00	0.17	0.00	10.02	ND		06/10/2022 04:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 04:32
PFTrDA	0.00	0.15	0.00	10.70	ND		06/10/2022 04:32
PFTDA	0.16	0.23	11.38	11.36	ND		06/10/2022 04:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB141-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490004	Total Amount Extracted	5.06g
Lab File ID	B220609B_021	Percent Moisture	12.6247%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:53	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 04:52
PFPeA	ND	0.11	0.11	0.03	1	2706-90-3		06/10/2022 04:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 04:52
PFBS	ND	0.10	0.10	0.02	1	375-73-5		06/10/2022 04:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 04:52
4:2 FTS	ND	0.11	0.11	0.03	1	757124-72-4		06/10/2022 04:52
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/10/2022 04:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 04:52
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/10/2022 04:52
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 04:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 04:52
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 04:52
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 04:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 04:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 04:52
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 04:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 04:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 04:52
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 04:52
9-CI-PF3ON	ND	0.11	0.11	0.01	1	756426-58-1		06/10/2022 04:52
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 04:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 04:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 04:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 04:52
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 04:52
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/10/2022 04:52
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/10/2022 04:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 04:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 04:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB141-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490004	Total Amount Extracted	5.06g
Lab File ID	B220609B_021	Percent Moisture	12.6247%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:53	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	105	50-150		06/10/2022 04:52
13C4 PFOA	1.1	1.3	115	50-150		06/10/2022 04:52
13C2 PFDA	1.1	1.4	125	50-150		06/10/2022 04:52
13C4 PFOS	1.1	1.3	118	50-150		06/10/2022 04:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	92	50-150		06/10/2022 04:52
13C5 PFPeA	1.1	1.1	95	50-150		06/10/2022 04:52
13C3 PFBS	1.1	1.00	95	50-150		06/10/2022 04:52
13C2 4:2FTS	1.1	1.2	117	50-150		06/10/2022 04:52
13C5 PFHxA	1.1	1.1	97	50-150		06/10/2022 04:52
13C4 PFHpA	1.1	1.0	90	50-150		06/10/2022 04:52
13C3 PFHxS	1.1	1.0	98	50-150		06/10/2022 04:52
13C2 6:2FTS	1.1	1.3	117	50-150		06/10/2022 04:52
13C8 PFOA	1.1	1.1	94	50-150		06/10/2022 04:52
13C9 PFNA	1.1	1.2	104	50-150		06/10/2022 04:52
13C8 PFOS	1.1	1.2	107	50-150		06/10/2022 04:52
13C2 8:2FTS	1.1	1.1	104	50-150		06/10/2022 04:52
13C6 PFDA	1.1	1.2	103	50-150		06/10/2022 04:52
d3-MeFOSAA	1.1	1.1	99	50-150		06/10/2022 04:52
13C8 PFOSA	1.1	0.94	83	50-150		06/10/2022 04:52
d5-EtFOSAA	1.1	1.1	100	50-150		06/10/2022 04:52
13C7 PFUdA	1.1	1.1	100	50-150		06/10/2022 04:52
13C2 PFDoA	1.1	1.2	108	50-150		06/10/2022 04:52
13C2 PFTeDA	1.1	1.2	104	50-150		06/10/2022 04:52
13C3 HFPO-DA	1.1	1.1	96	50-150		06/10/2022 04:52
d3-N-MeFOSA	1.1	0.013	1	10-150	R	06/10/2022 04:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB141-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490004	Total Amount Extracted	5.06g
Lab File ID	B220609B_021	Percent Moisture	12.6247%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:53	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	1623		06/10/2022 04:52
13C4 PFOA	N/A	N/A	7.27	7.15	2540		06/10/2022 04:52
13C2 PFDA	N/A	N/A	8.64	8.57	2050		06/10/2022 04:52
13C4 PFOS	N/A	N/A	9.14	9.07	1892		06/10/2022 04:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2119		06/10/2022 04:52
13C5 PFPeA	N/A	N/A	5.17	5.15	1815		06/10/2022 04:52
13C3 PFBS	N/A	N/A	6.14	6.16	1778		06/10/2022 04:52
13C2 4:2FTS	N/A	N/A	5.58	5.56	476		06/10/2022 04:52
13C5 PFHxA	N/A	N/A	5.87	5.85	1612		06/10/2022 04:52
13C4 PFHpA	N/A	N/A	6.58	6.54	1627		06/10/2022 04:52
13C3 PFHxS	N/A	N/A	7.71	7.66	1854		06/10/2022 04:52
13C2 6:2FTS	N/A	N/A	6.91	6.86	823		06/10/2022 04:52
13C8 PFOA	N/A	N/A	7.27	7.22	2455		06/10/2022 04:52
13C9 PFNA	N/A	N/A	7.95	7.90	1994		06/10/2022 04:52
13C8 PFOS	N/A	N/A	9.14	9.12	2467		06/10/2022 04:52
13C2 8:2FTS	N/A	N/A	8.24	8.20	1417		06/10/2022 04:52
13C6 PFDA	N/A	N/A	8.64	8.61	1976		06/10/2022 04:52
d3-MeFOSAA	N/A	N/A	8.49	8.46	11772		06/10/2022 04:52
13C8 PFOSA	N/A	N/A	10.92	10.88	3123		06/10/2022 04:52
d5-EtFOSAA	N/A	N/A	8.80	8.77	1012		06/10/2022 04:52
13C7 PFUdA	N/A	N/A	9.33	9.31	2511		06/10/2022 04:52
13C2 PFDoA	N/A	N/A	10.04	10.01	1306		06/10/2022 04:52
13C2 PFTeDA	N/A	N/A	11.37	11.36	1417		06/10/2022 04:52
13C3 HFPO-DA	N/A	N/A	6.16	6.13	1853		06/10/2022 04:52
d3-N-MeFOSA	N/A	N/A	12.85	12.85	93	R	06/10/2022 04:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB141-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490004	Total Amount Extracted	5.06g
Lab File ID	B220609B_021	Percent Moisture	12.6247%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:53	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 04:52
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 04:52
HFPO-DA	0.23	0.28	6.17	6.14	ND		06/10/2022 04:52
PFBS	0.35	0.44	6.14	6.14	ND		06/10/2022 04:52
PFHxA	0.08	0.08	5.88	5.84	ND		06/10/2022 04:52
4:2 FTS	0.00	0.97	0.00	5.56	ND		06/10/2022 04:52
PFPeS	0.00	0.39	0.00	6.89	ND		06/10/2022 04:52
PFHpA	0.34	0.28	6.58	6.50	ND		06/10/2022 04:52
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 04:52
PFHxS	0.35	0.34	7.71	7.65	ND		06/10/2022 04:52
PFOA	0.39	0.35	7.27	7.22	ND		06/10/2022 04:52
6:2 FTS	0.00	1.00	0.00	6.86	ND		06/10/2022 04:52
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 04:52
PFNA	0.14	0.15	7.96	7.91	ND		06/10/2022 04:52
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 04:52
PFOS	0.36	0.36	9.15	9.11	ND		06/10/2022 04:52
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 04:52
PFDA	0.13	0.17	8.64	8.59	ND		06/10/2022 04:52
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 04:52
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 04:52
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 04:52
PFUnDA	0.10	0.14	9.33	9.32	ND		06/10/2022 04:52
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 04:52
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 04:52
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 04:52
PFDOA	0.00	0.17	0.00	10.02	ND		06/10/2022 04:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 04:52
PFTrDA	0.42	0.15	10.53	10.70	ND		06/10/2022 04:52
PFTDA	0.25	0.23	11.37	11.36	ND		06/10/2022 04:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB51-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490005	Total Amount Extracted	5.06g
Lab File ID	B220609B_022	Percent Moisture	10.1764%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:14	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.16	0.11	0.11	0.02	1	375-22-4		06/10/2022 05:12
PFPeA	0.87	0.11	0.11	0.02	1	2706-90-3		06/10/2022 05:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 05:12
PFBS	0.11	0.09	0.09	0.02	1	375-73-5		06/10/2022 05:12
PFHxA	0.86	0.11	0.11	0.03	1	307-24-4		06/10/2022 05:12
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 05:12
PFPeS	0.11	0.10	0.10	0.02	1	2706-91-4		06/10/2022 05:12
PFHpA	0.29	0.11	0.11	0.02	1	375-85-9		06/10/2022 05:12
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 05:12
PFHxS	2.9	0.10	0.10	0.02	1	355-46-4		06/10/2022 05:12
PFOA	0.37	0.11	0.11	0.02	1	335-67-1		06/10/2022 05:12
6:2 FTS	6.3	0.10	0.10	0.03	1	27619-97-2		06/10/2022 05:12
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 05:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 05:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 05:12
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 05:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 05:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 05:12
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 05:12
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 05:12
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 05:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 05:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 05:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 05:12
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 05:12
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 05:12
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 05:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 05:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 05:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB51-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490005	Total Amount Extracted	5.06g
Lab File ID	B220609B_022	Percent Moisture	10.1764%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:14	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	107	50-150		06/10/2022 05:12
13C4 PFOA	1.1	1.2	112	50-150		06/10/2022 05:12
13C2 PFDA	1.1	1.3	114	50-150		06/10/2022 05:12
13C4 PFOS	1.1	1.2	110	50-150		06/10/2022 05:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	96	50-150		06/10/2022 05:12
13C5 PFPeA	1.1	1.1	99	50-150		06/10/2022 05:12
13C3 PFBS	1.0	1.1	104	50-150		06/10/2022 05:12
13C2 4:2FTS	1.0	1.1	109	50-150		06/10/2022 05:12
13C5 PFHxA	1.1	1.1	103	50-150		06/10/2022 05:12
13C4 PFHpA	1.1	1.1	103	50-150		06/10/2022 05:12
13C3 PFHxS	1.0	0.97	93	50-150		06/10/2022 05:12
13C2 6:2FTS	1.0	1.1	107	50-150		06/10/2022 05:12
13C8 PFOA	1.1	1.0	92	50-150		06/10/2022 05:12
13C9 PFNA	1.1	1.1	102	50-150		06/10/2022 05:12
13C8 PFOS	1.1	1.1	103	50-150		06/10/2022 05:12
13C2 8:2FTS	1.1	1.0	96	50-150		06/10/2022 05:12
13C6 PFDA	1.1	1.1	103	50-150		06/10/2022 05:12
d3-MeFOSAA	1.1	0.98	89	50-150		06/10/2022 05:12
13C8 PFOSA	1.1	0.36	33	50-150	R	06/10/2022 05:12
d5-EtFOSAA	1.1	0.99	90	50-150		06/10/2022 05:12
13C7 PFUdA	1.1	1.0	93	50-150		06/10/2022 05:12
13C2 PFDoA	1.1	1.1	97	50-150		06/10/2022 05:12
13C2 PFTeDA	1.1	0.99	90	50-150		06/10/2022 05:12
13C3 HFPO-DA	1.1	1.0	95	50-150		06/10/2022 05:12
d3-N-MeFOSA	1.1	0.0057	1	10-150	R	06/10/2022 05:12

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Sample Analysis Summary
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Client Sample ID	SB51-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490005	Total Amount Extracted	5.06g
Lab File ID	B220609B_022	Percent Moisture	10.1764%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:14	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1380		06/10/2022 05:12
13C4 PFOA	N/A	N/A	7.25	7.15	2209		06/10/2022 05:12
13C2 PFDA	N/A	N/A	8.64	8.57	1867		06/10/2022 05:12
13C4 PFOS	N/A	N/A	9.14	9.07	1879		06/10/2022 05:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.33	4.37	2764		06/10/2022 05:12
13C5 PFPeA	N/A	N/A	5.16	5.15	1789		06/10/2022 05:12
13C3 PFBS	N/A	N/A	6.13	6.16	2353		06/10/2022 05:12
13C2 4:2FTS	N/A	N/A	5.56	5.56	514		06/10/2022 05:12
13C5 PFHxA	N/A	N/A	5.86	5.85	1671		06/10/2022 05:12
13C4 PFHpA	N/A	N/A	6.56	6.54	1544		06/10/2022 05:12
13C3 PFHxS	N/A	N/A	7.69	7.66	2124		06/10/2022 05:12
13C2 6:2FTS	N/A	N/A	6.89	6.86	1765		06/10/2022 05:12
13C8 PFOA	N/A	N/A	7.25	7.22	2474		06/10/2022 05:12
13C9 PFNA	N/A	N/A	7.94	7.90	2542		06/10/2022 05:12
13C8 PFOS	N/A	N/A	9.15	9.12	3602		06/10/2022 05:12
13C2 8:2FTS	N/A	N/A	8.24	8.20	2945		06/10/2022 05:12
13C6 PFDA	N/A	N/A	8.64	8.61	3079		06/10/2022 05:12
d3-MeFOSAA	N/A	N/A	8.50	8.46	3699		06/10/2022 05:12
13C8 PFOSA	N/A	N/A	10.93	10.88	2547	R	06/10/2022 05:12
d5-EtFOSAA	N/A	N/A	8.81	8.77	842		06/10/2022 05:12
13C7 PFUdA	N/A	N/A	9.34	9.31	2252		06/10/2022 05:12
13C2 PFDoA	N/A	N/A	10.04	10.01	1543		06/10/2022 05:12
13C2 PFTeDA	N/A	N/A	11.39	11.36	1356		06/10/2022 05:12
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1573		06/10/2022 05:12
d3-N-MeFOSA	N/A	N/A	12.85	12.85	89	R	06/10/2022 05:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB51-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490005	Total Amount Extracted	5.06g
Lab File ID	B220609B_022	Percent Moisture	10.1764%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:14	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	94		06/10/2022 05:12
PFPeA	N/A	N/A	5.16	5.14	475		06/10/2022 05:12
HFPO-DA	0.17	0.28	6.17	6.14	ND		06/10/2022 05:12
PFBS	0.43	0.44	6.14	6.14	497		06/10/2022 05:12
PFHxA	0.08	0.08	5.87	5.84	485		06/10/2022 05:12
4:2 FTS	1.20	0.97	5.57	5.56	ND		06/10/2022 05:12
PFPeS	0.42	0.39	6.94	6.89	509		06/10/2022 05:12
PFHpA	0.28	0.28	6.57	6.50	18		06/10/2022 05:12
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 05:12
PFHxS	0.38	0.34	7.70	7.65	3151		06/10/2022 05:12
PFOA	0.41	0.35	7.25	7.22	172		06/10/2022 05:12
6:2 FTS	0.87	1.00	6.89	6.86	2574		06/10/2022 05:12
PFHpS	0.53	0.35	8.44	8.41	ND		06/10/2022 05:12
PFNA	0.14	0.15	7.95	7.91	ND		06/10/2022 05:12
PFOSAm	N/A	N/A	0.00	10.89	ND		06/10/2022 05:12
PFOS	0.32	0.36	9.04	9.11	ND		06/10/2022 05:12
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 05:12
PFDA	0.00	0.17	0.00	8.59	ND		06/10/2022 05:12
8:2 FTS	1.30	0.98	8.24	8.21	ND		06/10/2022 05:12
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 05:12
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 05:12
PFUnDA	0.00	0.14	0.00	9.32	ND		06/10/2022 05:12
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 05:12
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 05:12
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 05:12
PFDOA	0.00	0.17	0.00	10.02	ND		06/10/2022 05:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 05:12
PFTrDA	0.00	0.15	0.00	10.70	ND		06/10/2022 05:12
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 05:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB50-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490006	Total Amount Extracted	5.17g
Lab File ID	B220609B_023	Percent Moisture	24.0092%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:04	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.13	0.13	0.03	1	375-22-4		06/10/2022 05:32
PFPeA	ND	0.13	0.13	0.03	1	2706-90-3		06/10/2022 05:32
HFPO-DA	ND	0.13	0.13	0.03	1	13252-13-6		06/10/2022 05:32
PFBS	ND	0.11	0.11	0.02	1	375-73-5		06/10/2022 05:32
PFHxA	ND	0.13	0.13	0.03	1	307-24-4		06/10/2022 05:32
4:2 FTS	ND	0.12	0.12	0.04	1	757124-72-4		06/10/2022 05:32
PFPeS	ND	0.12	0.12	0.02	1	2706-91-4		06/10/2022 05:32
PFHpA	ND	0.13	0.13	0.02	1	375-85-9		06/10/2022 05:32
DONA	ND	0.12	0.12	0.04	1	919005-14-4		06/10/2022 05:32
PFHxS	ND	0.12	0.12	0.02	1	355-46-4		06/10/2022 05:32
PFOA	ND	0.13	0.13	0.02	1	335-67-1		06/10/2022 05:32
6:2 FTS	ND	0.12	0.12	0.04	1	27619-97-2		06/10/2022 05:32
PFHpS	ND	0.12	0.12	0.03	1	375-92-8		06/10/2022 05:32
PFNA	ND	0.13	0.13	0.03	1	375-95-1		06/10/2022 05:32
PFOSAm	ND	0.13	0.13	0.03	1	754-91-6		06/10/2022 05:32
PFOS	ND	0.12	0.12	0.03	1	1763-23-1		06/10/2022 05:32
MeFOSA	ND	0.13	0.13	0.03	1	31506-32-8		06/10/2022 05:32
PFDA	ND	0.13	0.13	0.02	1	335-76-2		06/10/2022 05:32
8:2 FTS	ND	0.12	0.12	0.03	1	39108-34-4		06/10/2022 05:32
9-CI-PF3ON	ND	0.12	0.12	0.01	1	756426-58-1		06/10/2022 05:32
PFNS	ND	0.12	0.12	0.02	1	68259-12-1		06/10/2022 05:32
PFUnDA	ND	0.13	0.13	0.03	1	2058-94-8		06/10/2022 05:32
NMeFOSAA	ND	0.13	0.13	0.03	1	2355-31-9		06/10/2022 05:32
NEtFOSAA	ND	0.13	0.13	0.03	1	2991-50-6		06/10/2022 05:32
PFDS	ND	0.12	0.12	0.03	1	335-77-3		06/10/2022 05:32
PFDOA	ND	0.13	0.13	0.03	1	307-55-1		06/10/2022 05:32
11-CI-PF3OUdS	ND	0.12	0.12	0.02	1	763051-92-9		06/10/2022 05:32
PFTTrDA	ND	0.13	0.13	0.02	1	72629-94-8		06/10/2022 05:32
PFTDA	ND	0.13	0.13	0.04	1	376-06-7		06/10/2022 05:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB50-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490006	Total Amount Extracted	5.17g
Lab File ID	B220609B_023	Percent Moisture	24.0092%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:04	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	1.2	95	50-150		06/10/2022 05:32
13C4 PFOA	1.3	1.2	96	50-150		06/10/2022 05:32
13C2 PFDA	1.3	1.2	98	50-150		06/10/2022 05:32
13C4 PFOS	1.2	1.2	98	50-150		06/10/2022 05:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	1.1	88	50-150		06/10/2022 05:32
13C5 PFPeA	1.3	1.2	91	50-150		06/10/2022 05:32
13C3 PFBS	1.2	1.1	91	50-150		06/10/2022 05:32
13C2 4:2FTS	1.2	1.2	97	50-150		06/10/2022 05:32
13C5 PFHxA	1.3	1.2	97	50-150		06/10/2022 05:32
13C4 PFHpA	1.3	1.1	88	50-150		06/10/2022 05:32
13C3 PFHxS	1.2	1.1	93	50-150		06/10/2022 05:32
13C2 6:2FTS	1.2	1.2	96	50-150		06/10/2022 05:32
13C8 PFOA	1.3	1.1	85	50-150		06/10/2022 05:32
13C9 PFNA	1.3	1.2	93	50-150		06/10/2022 05:32
13C8 PFOS	1.2	1.1	91	50-150		06/10/2022 05:32
13C2 8:2FTS	1.2	1.0	84	50-150		06/10/2022 05:32
13C6 PFDA	1.3	1.1	85	50-150		06/10/2022 05:32
d3-MeFOSAA	1.3	1.0	82	50-150		06/10/2022 05:32
13C8 PFOSA	1.3	0.74	58	50-150		06/10/2022 05:32
d5-EtFOSAA	1.3	1.1	85	50-150		06/10/2022 05:32
13C7 PFUdA	1.3	0.98	77	50-150		06/10/2022 05:32
13C2 PFDoA	1.3	1.1	84	50-150		06/10/2022 05:32
13C2 PFTeDA	1.3	0.89	70	50-150		06/10/2022 05:32
13C3 HFPO-DA	1.3	1.2	93	50-150		06/10/2022 05:32
d3-N-MeFOSA	1.3	0.00079	0	10-150	R	06/10/2022 05:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB50-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490006	Total Amount Extracted	5.17g
Lab File ID	B220609B_023	Percent Moisture	24.0092%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:04	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1608		06/10/2022 05:32
13C4 PFOA	N/A	N/A	7.25	7.15	2442		06/10/2022 05:32
13C2 PFDA	N/A	N/A	8.64	8.57	2092		06/10/2022 05:32
13C4 PFOS	N/A	N/A	9.14	9.07	1685		06/10/2022 05:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2010		06/10/2022 05:32
13C5 PFPeA	N/A	N/A	5.16	5.15	1970		06/10/2022 05:32
13C3 PFBS	N/A	N/A	6.13	6.16	3648		06/10/2022 05:32
13C2 4:2FTS	N/A	N/A	5.57	5.56	588		06/10/2022 05:32
13C5 PFHxA	N/A	N/A	5.86	5.85	2056		06/10/2022 05:32
13C4 PFHpA	N/A	N/A	6.56	6.54	1497		06/10/2022 05:32
13C3 PFHxS	N/A	N/A	7.69	7.66	1970		06/10/2022 05:32
13C2 6:2FTS	N/A	N/A	6.89	6.86	1418		06/10/2022 05:32
13C8 PFOA	N/A	N/A	7.25	7.22	2214		06/10/2022 05:32
13C9 PFNA	N/A	N/A	7.94	7.90	2735		06/10/2022 05:32
13C8 PFOS	N/A	N/A	9.14	9.12	2232		06/10/2022 05:32
13C2 8:2FTS	N/A	N/A	8.24	8.20	9221		06/10/2022 05:32
13C6 PFDA	N/A	N/A	8.64	8.61	2631		06/10/2022 05:32
d3-MeFOSAA	N/A	N/A	8.50	8.46	2713		06/10/2022 05:32
13C8 PFOSA	N/A	N/A	10.92	10.88	2943		06/10/2022 05:32
d5-EtFOSAA	N/A	N/A	8.81	8.77	584		06/10/2022 05:32
13C7 PFUdA	N/A	N/A	9.34	9.31	3902		06/10/2022 05:32
13C2 PFDoA	N/A	N/A	10.03	10.01	1317		06/10/2022 05:32
13C2 PFTeDA	N/A	N/A	11.37	11.36	1563		06/10/2022 05:32
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1796		06/10/2022 05:32
d3-N-MeFOSA	N/A	N/A	12.85	12.85	14	R	06/10/2022 05:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB50-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490006	Total Amount Extracted	5.17g
Lab File ID	B220609B_023	Percent Moisture	24.0092%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:04	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 05:32
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 05:32
HFPO-DA	0.33	0.28	6.16	6.14	ND		06/10/2022 05:32
PFBS	0.39	0.44	6.13	6.14	ND		06/10/2022 05:32
PFHxA	0.08	0.08	5.87	5.84	ND		06/10/2022 05:32
4:2 FTS	0.00	0.97	0.00	5.56	ND		06/10/2022 05:32
PFPeS	0.00	0.39	0.00	6.89	ND		06/10/2022 05:32
PFHpA	0.31	0.28	6.57	6.50	ND		06/10/2022 05:32
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 05:32
PFHxS	0.40	0.34	7.71	7.65	ND		06/10/2022 05:32
PFOA	0.33	0.35	7.26	7.22	ND		06/10/2022 05:32
6:2 FTS	1.40	1.00	6.90	6.86	ND		06/10/2022 05:32
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 05:32
PFNA	0.13	0.15	7.95	7.91	ND		06/10/2022 05:32
PFOSAm	N/A	N/A	10.92	10.89	ND		06/10/2022 05:32
PFOS	0.31	0.36	9.13	9.11	ND		06/10/2022 05:32
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 05:32
PFDA	0.18	0.17	8.65	8.59	ND		06/10/2022 05:32
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 05:32
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 05:32
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 05:32
PFUnDA	0.10	0.14	9.35	9.32	ND		06/10/2022 05:32
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 05:32
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 05:32
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 05:32
PFDOA	0.13	0.17	10.04	10.02	ND		06/10/2022 05:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 05:32
PFTrDA	0.24	0.15	10.71	10.70	ND		06/10/2022 05:32
PFTDA	0.12	0.23	11.38	11.36	ND		06/10/2022 05:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB49-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490007	Total Amount Extracted	5.12g
Lab File ID	B220609B_024	Percent Moisture	10.1238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:37	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 05:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 05:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 05:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 05:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 05:52
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 05:52
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 05:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 05:52
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 05:52
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 05:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 05:52
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 05:52
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 05:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 05:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 05:52
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 05:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 05:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 05:52
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 05:52
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 05:52
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 05:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 05:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 05:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 05:52
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 05:52
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 05:52
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 05:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 05:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 05:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB49-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490007	Total Amount Extracted	5.12g
Lab File ID	B220609B_024	Percent Moisture	10.1238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:37	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	115	50-150		06/10/2022 05:52
13C4 PFOA	1.1	1.3	120	50-150		06/10/2022 05:52
13C2 PFDA	1.1	1.3	119	50-150		06/10/2022 05:52
13C4 PFOS	1.0	1.2	115	50-150		06/10/2022 05:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.2	111	50-150		06/10/2022 05:52
13C5 PFPeA	1.1	1.2	114	50-150		06/10/2022 05:52
13C3 PFBS	1.0	1.2	115	50-150		06/10/2022 05:52
13C2 4:2FTS	1.0	1.3	124	50-150		06/10/2022 05:52
13C5 PFHxA	1.1	1.2	114	50-150		06/10/2022 05:52
13C4 PFHpA	1.1	1.3	116	50-150		06/10/2022 05:52
13C3 PFHxS	1.0	1.2	114	50-150		06/10/2022 05:52
13C2 6:2FTS	1.0	1.3	125	50-150		06/10/2022 05:52
13C8 PFOA	1.1	1.1	102	50-150		06/10/2022 05:52
13C9 PFNA	1.1	1.2	114	50-150		06/10/2022 05:52
13C8 PFOS	1.0	1.2	112	50-150		06/10/2022 05:52
13C2 8:2FTS	1.0	1.1	104	50-150		06/10/2022 05:52
13C6 PFDA	1.1	1.2	115	50-150		06/10/2022 05:52
d3-MeFOSAA	1.1	1.1	103	50-150		06/10/2022 05:52
13C8 PFOSA	1.1	0.98	90	50-150		06/10/2022 05:52
d5-EtFOSAA	1.1	1.2	107	50-150		06/10/2022 05:52
13C7 PFUdA	1.1	1.2	107	50-150		06/10/2022 05:52
13C2 PFDoA	1.1	1.2	114	50-150		06/10/2022 05:52
13C2 PFTeDA	1.1	1.1	103	50-150		06/10/2022 05:52
13C3 HFPO-DA	1.1	1.2	112	50-150		06/10/2022 05:52
d3-N-MeFOSA	1.1	0.0057	1	10-150	R	06/10/2022 05:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB49-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490007	Total Amount Extracted	5.12g
Lab File ID	B220609B_024	Percent Moisture	10.1238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:37	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	1968		06/10/2022 05:52
13C4 PFOA	N/A	N/A	7.25	7.15	2591		06/10/2022 05:52
13C2 PFDA	N/A	N/A	8.64	8.57	1889		06/10/2022 05:52
13C4 PFOS	N/A	N/A	9.15	9.07	2167		06/10/2022 05:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.37	2216		06/10/2022 05:52
13C5 PFPeA	N/A	N/A	5.17	5.15	1708		06/10/2022 05:52
13C3 PFBS	N/A	N/A	6.14	6.16	2854		06/10/2022 05:52
13C2 4:2FTS	N/A	N/A	5.59	5.56	684		06/10/2022 05:52
13C5 PFHxA	N/A	N/A	5.88	5.85	2003		06/10/2022 05:52
13C4 PFHpA	N/A	N/A	6.56	6.54	1962		06/10/2022 05:52
13C3 PFHxS	N/A	N/A	7.69	7.66	2344		06/10/2022 05:52
13C2 6:2FTS	N/A	N/A	6.89	6.86	1730		06/10/2022 05:52
13C8 PFOA	N/A	N/A	7.25	7.22	2626		06/10/2022 05:52
13C9 PFNA	N/A	N/A	7.94	7.90	2079		06/10/2022 05:52
13C8 PFOS	N/A	N/A	9.15	9.12	3758		06/10/2022 05:52
13C2 8:2FTS	N/A	N/A	8.24	8.20	1416		06/10/2022 05:52
13C6 PFDA	N/A	N/A	8.64	8.61	1844		06/10/2022 05:52
d3-MeFOSAA	N/A	N/A	8.50	8.46	2975		06/10/2022 05:52
13C8 PFOSA	N/A	N/A	10.93	10.88	3351		06/10/2022 05:52
d5-EtFOSAA	N/A	N/A	8.81	8.77	984		06/10/2022 05:52
13C7 PFUdA	N/A	N/A	9.34	9.31	3288		06/10/2022 05:52
13C2 PFDoA	N/A	N/A	10.04	10.01	1338		06/10/2022 05:52
13C2 PFTeDA	N/A	N/A	11.39	11.36	1439		06/10/2022 05:52
13C3 HFPO-DA	N/A	N/A	6.16	6.13	1642		06/10/2022 05:52
d3-N-MeFOSA	N/A	N/A	12.86	12.85	49	R	06/10/2022 05:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB49-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490007	Total Amount Extracted	5.12g
Lab File ID	B220609B_024	Percent Moisture	10.1238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:37	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.31	4.36	ND		06/10/2022 05:52
PFPeA	N/A	N/A	5.18	5.14	ND		06/10/2022 05:52
HFPO-DA	0.19	0.28	6.17	6.14	ND		06/10/2022 05:52
PFBS	0.32	0.44	6.14	6.14	ND		06/10/2022 05:52
PFHxA	0.09	0.08	5.88	5.84	ND		06/10/2022 05:52
4:2 FTS	0.00	0.97	0.00	5.56	ND		06/10/2022 05:52
PFPeS	0.40	0.39	6.94	6.89	ND		06/10/2022 05:52
PFHpA	0.26	0.28	6.57	6.50	ND		06/10/2022 05:52
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 05:52
PFHxS	0.31	0.34	7.70	7.65	ND		06/10/2022 05:52
PFOA	0.43	0.35	7.26	7.22	ND		06/10/2022 05:52
6:2 FTS	1.10	1.00	6.89	6.86	ND		06/10/2022 05:52
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 05:52
PFNA	0.12	0.15	7.96	7.91	ND		06/10/2022 05:52
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 05:52
PFOS	0.42	0.36	9.16	9.11	ND		06/10/2022 05:52
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 05:52
PFDA	0.00	0.17	0.00	8.59	ND		06/10/2022 05:52
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 05:52
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 05:52
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 05:52
PFUnDA	0.00	0.14	0.00	9.32	ND		06/10/2022 05:52
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 05:52
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 05:52
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 05:52
PFDOA	0.00	0.17	0.00	10.02	ND		06/10/2022 05:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 05:52
PFTrDA	0.00	0.15	0.00	10.70	ND		06/10/2022 05:52
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 05:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB139-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490008	Total Amount Extracted	5.10g
Lab File ID	B220609B_025	Percent Moisture	10.2123%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:28	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 06:12
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 06:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 06:12
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 06:12
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 06:12
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 06:12
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 06:12
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 06:12
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 06:12
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 06:12
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 06:12
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 06:12
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 06:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 06:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 06:12
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 06:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 06:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 06:12
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 06:12
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 06:12
PFNS	ND	0.10	0.10	0.02	1	68259-12-1		06/10/2022 06:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 06:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 06:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 06:12
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 06:12
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 06:12
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 06:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 06:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 06:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB139-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490008	Total Amount Extracted	5.10g
Lab File ID	B220609B_025	Percent Moisture	10.2123%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:28	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	116	50-150		06/10/2022 06:12
13C4 PFOA	1.1	1.3	117	50-150		06/10/2022 06:12
13C2 PFDA	1.1	1.3	121	50-150		06/10/2022 06:12
13C4 PFOS	1.0	1.2	115	50-150		06/10/2022 06:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	103	50-150		06/10/2022 06:12
13C5 PFPeA	1.1	1.1	103	50-150		06/10/2022 06:12
13C3 PFBS	1.0	1.1	106	50-150		06/10/2022 06:12
13C2 4:2FTS	1.0	1.2	118	50-150		06/10/2022 06:12
13C5 PFHxA	1.1	1.2	108	50-150		06/10/2022 06:12
13C4 PFHpA	1.1	1.1	100	50-150		06/10/2022 06:12
13C3 PFHxS	1.0	1.1	106	50-150		06/10/2022 06:12
13C2 6:2FTS	1.0	1.2	118	50-150		06/10/2022 06:12
13C8 PFOA	1.1	1.1	104	50-150		06/10/2022 06:12
13C9 PFNA	1.1	1.2	108	50-150		06/10/2022 06:12
13C8 PFOS	1.0	1.1	110	50-150		06/10/2022 06:12
13C2 8:2FTS	1.0	0.94	90	50-150		06/10/2022 06:12
13C6 PFDA	1.1	1.2	106	50-150		06/10/2022 06:12
d3-MeFOSAA	1.1	1.1	98	50-150		06/10/2022 06:12
13C8 PFOSA	1.1	1.0	93	50-150		06/10/2022 06:12
d5-EtFOSAA	1.1	1.1	105	50-150		06/10/2022 06:12
13C7 PFUdA	1.1	1.1	99	50-150		06/10/2022 06:12
13C2 PFDoA	1.1	1.2	108	50-150		06/10/2022 06:12
13C2 PFTeDA	1.1	1.1	103	50-150		06/10/2022 06:12
13C3 HFPO-DA	1.1	1.2	106	50-150		06/10/2022 06:12
d3-N-MeFOSA	1.1	0.015	1	10-150	R	06/10/2022 06:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB139-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490008	Total Amount Extracted	5.10g
Lab File ID	B220609B_025	Percent Moisture	10.2123%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:28	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	1717		06/10/2022 06:12
13C4 PFOA	N/A	N/A	7.26	7.15	2759		06/10/2022 06:12
13C2 PFDA	N/A	N/A	8.64	8.57	2037		06/10/2022 06:12
13C4 PFOS	N/A	N/A	9.14	9.07	2355		06/10/2022 06:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2223		06/10/2022 06:12
13C5 PFPeA	N/A	N/A	5.16	5.15	1848		06/10/2022 06:12
13C3 PFBS	N/A	N/A	6.14	6.16	2018		06/10/2022 06:12
13C2 4:2FTS	N/A	N/A	5.58	5.56	535		06/10/2022 06:12
13C5 PFHxA	N/A	N/A	5.87	5.85	1864		06/10/2022 06:12
13C4 PFHpA	N/A	N/A	6.57	6.54	1644		06/10/2022 06:12
13C3 PFHxS	N/A	N/A	7.70	7.66	1904		06/10/2022 06:12
13C2 6:2FTS	N/A	N/A	6.90	6.86	2641		06/10/2022 06:12
13C8 PFOA	N/A	N/A	7.26	7.22	2997		06/10/2022 06:12
13C9 PFNA	N/A	N/A	7.94	7.90	2824		06/10/2022 06:12
13C8 PFOS	N/A	N/A	9.14	9.12	7735		06/10/2022 06:12
13C2 8:2FTS	N/A	N/A	8.24	8.20	9156		06/10/2022 06:12
13C6 PFDA	N/A	N/A	8.64	8.61	2175		06/10/2022 06:12
d3-MeFOSAA	N/A	N/A	8.49	8.46	4019		06/10/2022 06:12
13C8 PFOSA	N/A	N/A	10.92	10.88	2559		06/10/2022 06:12
d5-EtFOSAA	N/A	N/A	8.80	8.77	722		06/10/2022 06:12
13C7 PFUdA	N/A	N/A	9.33	9.31	2485		06/10/2022 06:12
13C2 PFDoA	N/A	N/A	10.03	10.01	1751		06/10/2022 06:12
13C2 PFTeDA	N/A	N/A	11.38	11.36	1396		06/10/2022 06:12
13C3 HFPO-DA	N/A	N/A	6.16	6.13	1545		06/10/2022 06:12
d3-N-MeFOSA	N/A	N/A	12.86	12.85	164	R	06/10/2022 06:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB139-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490008	Total Amount Extracted	5.10g
Lab File ID	B220609B_025	Percent Moisture	10.2123%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 14:28	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.36	ND		06/10/2022 06:12
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 06:12
HFPO-DA	0.29	0.28	6.17	6.14	ND		06/10/2022 06:12
PFBS	0.35	0.44	6.15	6.14	ND		06/10/2022 06:12
PFHxA	0.09	0.08	5.88	5.84	ND		06/10/2022 06:12
4:2 FTS	0.00	0.97	0.00	5.56	ND		06/10/2022 06:12
PFPeS	0.64	0.39	6.95	6.89	ND		06/10/2022 06:12
PFHpA	0.41	0.28	6.58	6.50	ND		06/10/2022 06:12
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 06:12
PFHxS	0.43	0.34	7.70	7.65	ND		06/10/2022 06:12
PFOA	0.48	0.35	7.27	7.22	ND		06/10/2022 06:12
6:2 FTS	0.00	1.00	0.00	6.86	ND		06/10/2022 06:12
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 06:12
PFNA	0.06	0.15	7.95	7.91	ND		06/10/2022 06:12
PFOSAm	N/A	N/A	10.92	10.89	ND		06/10/2022 06:12
PFOS	0.30	0.36	9.14	9.11	ND		06/10/2022 06:12
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 06:12
PFDA	0.00	0.17	0.00	8.59	ND		06/10/2022 06:12
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 06:12
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 06:12
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 06:12
PFUnDA	0.00	0.14	0.00	9.32	ND		06/10/2022 06:12
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 06:12
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 06:12
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 06:12
PFDOA	0.00	0.17	0.00	10.02	ND		06/10/2022 06:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 06:12
PFTrDA	0.00	0.15	0.00	10.70	ND		06/10/2022 06:12
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 06:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB52-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490009	Total Amount Extracted	5.12g
Lab File ID	B220609B_026	Percent Moisture	9.3553%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:27	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 06:32
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 06:32
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 06:32
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 06:32
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 06:32
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 06:32
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 06:32
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 06:32
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 06:32
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 06:32
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 06:32
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 06:32
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 06:32
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 06:32
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 06:32
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 06:32
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 06:32
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 06:32
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 06:32
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 06:32
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 06:32
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 06:32
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 06:32
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 06:32
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 06:32
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 06:32
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 06:32
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 06:32
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 06:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB52-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490009	Total Amount Extracted	5.12g
Lab File ID	B220609B_026	Percent Moisture	9.3553%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:27	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	109	50-150		06/10/2022 06:32
13C4 PFOA	1.1	1.2	113	50-150		06/10/2022 06:32
13C2 PFDA	1.1	1.2	110	50-150		06/10/2022 06:32
13C4 PFOS	1.0	1.2	112	50-150		06/10/2022 06:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	100	50-150		06/10/2022 06:32
13C5 PFPeA	1.1	1.1	104	50-150		06/10/2022 06:32
13C3 PFBS	1.0	1.1	105	50-150		06/10/2022 06:32
13C2 4:2FTS	1.0	1.2	121	50-150		06/10/2022 06:32
13C5 PFHxA	1.1	1.2	108	50-150		06/10/2022 06:32
13C4 PFHpA	1.1	1.1	103	50-150		06/10/2022 06:32
13C3 PFHxS	1.0	1.1	107	50-150		06/10/2022 06:32
13C2 6:2FTS	1.0	1.2	117	50-150		06/10/2022 06:32
13C8 PFOA	1.1	1.1	99	50-150		06/10/2022 06:32
13C9 PFNA	1.1	1.1	106	50-150		06/10/2022 06:32
13C8 PFOS	1.0	1.2	115	50-150		06/10/2022 06:32
13C2 8:2FTS	1.0	1.1	102	50-150		06/10/2022 06:32
13C6 PFDA	1.1	1.1	105	50-150		06/10/2022 06:32
d3-MeFOSAA	1.1	1.0	94	50-150		06/10/2022 06:32
13C8 PFOSA	1.1	1.1	101	50-150		06/10/2022 06:32
d5-EtFOSAA	1.1	0.99	92	50-150		06/10/2022 06:32
13C7 PFUdA	1.1	1.1	98	50-150		06/10/2022 06:32
13C2 PFDoA	1.1	1.1	104	50-150		06/10/2022 06:32
13C2 PFTeDA	1.1	1.1	105	50-150		06/10/2022 06:32
13C3 HFPO-DA	1.1	1.1	104	50-150		06/10/2022 06:32
d3-N-MeFOSA	1.1	0.59	55	10-150		06/10/2022 06:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB52-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490009	Total Amount Extracted	5.12g
Lab File ID	B220609B_026	Percent Moisture	9.3553%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:27	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1669		06/10/2022 06:32
13C4 PFOA	N/A	N/A	7.26	7.15	2451		06/10/2022 06:32
13C2 PFDA	N/A	N/A	8.64	8.57	2047		06/10/2022 06:32
13C4 PFOS	N/A	N/A	9.14	9.07	2246		06/10/2022 06:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.33	4.37	2722		06/10/2022 06:32
13C5 PFPeA	N/A	N/A	5.15	5.15	2156		06/10/2022 06:32
13C3 PFBS	N/A	N/A	6.14	6.16	2021		06/10/2022 06:32
13C2 4:2FTS	N/A	N/A	5.56	5.56	652		06/10/2022 06:32
13C5 PFHxA	N/A	N/A	5.86	5.85	1862		06/10/2022 06:32
13C4 PFHpA	N/A	N/A	6.57	6.54	1720		06/10/2022 06:32
13C3 PFHxS	N/A	N/A	7.70	7.66	2532		06/10/2022 06:32
13C2 6:2FTS	N/A	N/A	6.91	6.86	1153		06/10/2022 06:32
13C8 PFOA	N/A	N/A	7.26	7.22	2303		06/10/2022 06:32
13C9 PFNA	N/A	N/A	7.95	7.90	2737		06/10/2022 06:32
13C8 PFOS	N/A	N/A	9.14	9.12	2710		06/10/2022 06:32
13C2 8:2FTS	N/A	N/A	8.25	8.20	31843		06/10/2022 06:32
13C6 PFDA	N/A	N/A	8.65	8.61	1706		06/10/2022 06:32
d3-MeFOSAA	N/A	N/A	8.50	8.46	1821		06/10/2022 06:32
13C8 PFOSA	N/A	N/A	10.92	10.88	3139		06/10/2022 06:32
d5-EtFOSAA	N/A	N/A	8.81	8.77	766		06/10/2022 06:32
13C7 PFUdA	N/A	N/A	9.33	9.31	3177		06/10/2022 06:32
13C2 PFDaA	N/A	N/A	10.03	10.01	1268		06/10/2022 06:32
13C2 PFTeDA	N/A	N/A	11.38	11.36	1145		06/10/2022 06:32
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1341		06/10/2022 06:32
d3-N-MeFOSA	N/A	N/A	12.85	12.85	1103		06/10/2022 06:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB52-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490009	Total Amount Extracted	5.12g
Lab File ID	B220609B_026	Percent Moisture	9.3553%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 17:27	CCal File	B220609B_016
Received	05/20/2022 08:50	Ending CCal File	B220609B_029
		Blank File	B220609B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 06:32
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 06:32
HFPO-DA	0.40	0.28	6.17	6.14	ND		06/10/2022 06:32
PFBS	0.20	0.44	6.14	6.14	ND		06/10/2022 06:32
PFHxA	0.08	0.08	5.87	5.84	ND		06/10/2022 06:32
4:2 FTS	0.00	0.97	0.00	5.56	ND		06/10/2022 06:32
PFPeS	0.36	0.39	6.92	6.89	ND		06/10/2022 06:32
PFHpA	0.29	0.28	6.58	6.50	ND		06/10/2022 06:32
DONA	0.00	0.58	0.00	6.76	ND		06/10/2022 06:32
PFHxS	0.45	0.34	7.71	7.65	ND		06/10/2022 06:32
PFOA	0.30	0.35	7.27	7.22	ND		06/10/2022 06:32
6:2 FTS	0.00	1.00	0.00	6.86	ND		06/10/2022 06:32
PFHpS	0.00	0.35	0.00	8.41	ND		06/10/2022 06:32
PFNA	0.13	0.15	7.96	7.91	ND		06/10/2022 06:32
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 06:32
PFOS	0.37	0.36	9.15	9.11	ND		06/10/2022 06:32
MeFOSA	0.00	0.64	0.00	12.81	ND		06/10/2022 06:32
PFDA	0.17	0.17	8.66	8.59	ND		06/10/2022 06:32
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/10/2022 06:32
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/10/2022 06:32
PFNS	0.00	0.49	0.00	9.83	ND		06/10/2022 06:32
PFUnDA	0.12	0.14	9.34	9.32	ND		06/10/2022 06:32
NMeFOSAA	0.00	0.84	0.00	8.55	ND		06/10/2022 06:32
NEtFOSAA	0.00	0.66	0.00	8.77	ND		06/10/2022 06:32
PFDS	0.00	0.36	0.00	10.53	ND		06/10/2022 06:32
PFDOA	0.16	0.17	10.03	10.02	ND		06/10/2022 06:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 06:32
PFTrDA	0.00	0.15	0.00	10.70	ND		06/10/2022 06:32
PFTDA	0.16	0.23	11.38	11.36	ND		06/10/2022 06:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB142-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490010	Total Amount Extracted	5.16g
Lab File ID	B220610B_006	Percent Moisture	12.6052%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:08	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 15:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 15:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 15:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 15:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 15:52
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 15:52
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 15:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 15:52
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 15:52
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 15:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 15:52
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 15:52
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 15:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 15:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 15:52
PFOS	0.15	0.10	0.10	0.03	1	1763-23-1		06/10/2022 15:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 15:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 15:52
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 15:52
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 15:52
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 15:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 15:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 15:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 15:52
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 15:52
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 15:52
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 15:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 15:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 15:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB142-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490010	Total Amount Extracted	5.16g
Lab File ID	B220610B_006	Percent Moisture	12.6052%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:08	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	111	50-150		06/10/2022 15:52
13C4 PFOA	1.1	1.3	115	50-150		06/10/2022 15:52
13C2 PFDA	1.1	1.4	128	50-150		06/10/2022 15:52
13C4 PFOS	1.1	1.4	131	50-150		06/10/2022 15:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.2	105	50-150		06/10/2022 15:52
13C5 PFPeA	1.1	1.2	108	50-150		06/10/2022 15:52
13C3 PFBS	1.0	1.0	102	50-150		06/10/2022 15:52
13C2 4:2FTS	1.0	1.4	135	50-150		06/10/2022 15:52
13C5 PFHxA	1.1	1.2	107	50-150		06/10/2022 15:52
13C4 PFHpA	1.1	1.2	111	50-150		06/10/2022 15:52
13C3 PFHxS	1.0	1.1	106	50-150		06/10/2022 15:52
13C2 6:2FTS	1.1	1.3	120	50-150		06/10/2022 15:52
13C8 PFOA	1.1	1.2	109	50-150		06/10/2022 15:52
13C9 PFNA	1.1	1.2	111	50-150		06/10/2022 15:52
13C8 PFOS	1.1	1.2	111	50-150		06/10/2022 15:52
13C2 8:2FTS	1.1	1.3	119	50-150		06/10/2022 15:52
13C6 PFDA	1.1	1.2	112	50-150		06/10/2022 15:52
d3-MeFOSAA	1.1	1.3	121	50-150		06/10/2022 15:52
13C8 PFOSA	1.1	1.1	101	50-150		06/10/2022 15:52
d5-EtFOSAA	1.1	1.3	114	50-150		06/10/2022 15:52
13C7 PFUdA	1.1	1.4	127	50-150		06/10/2022 15:52
13C2 PFDoA	1.1	1.5	134	50-150		06/10/2022 15:52
13C2 PFTeDA	1.1	1.2	108	50-150		06/10/2022 15:52
13C3 HFPO-DA	1.1	1.2	108	50-150		06/10/2022 15:52
d3-N-MeFOSA	1.1	0.19	17	10-150		06/10/2022 15:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB142-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490010	Total Amount Extracted	5.16g
Lab File ID	B220610B_006	Percent Moisture	12.6052%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:08	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.82	1782		06/10/2022 15:52
13C4 PFOA	N/A	N/A	7.24	7.15	2482		06/10/2022 15:52
13C2 PFDA	N/A	N/A	8.64	8.57	1862		06/10/2022 15:52
13C4 PFOS	N/A	N/A	9.15	9.07	2339		06/10/2022 15:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.33	4.37	2506		06/10/2022 15:52
13C5 PFPeA	N/A	N/A	5.16	5.15	2126		06/10/2022 15:52
13C3 PFBS	N/A	N/A	6.12	6.16	2210		06/10/2022 15:52
13C2 4:2FTS	N/A	N/A	5.56	5.56	649		06/10/2022 15:52
13C5 PFHxA	N/A	N/A	5.85	5.85	1916		06/10/2022 15:52
13C4 PFHpA	N/A	N/A	6.54	6.54	1749		06/10/2022 15:52
13C3 PFHxS	N/A	N/A	7.69	7.66	2039		06/10/2022 15:52
13C2 6:2FTS	N/A	N/A	6.88	6.86	1771		06/10/2022 15:52
13C8 PFOA	N/A	N/A	7.24	7.22	1865		06/10/2022 15:52
13C9 PFNA	N/A	N/A	7.94	7.90	2330		06/10/2022 15:52
13C8 PFOS	N/A	N/A	9.16	9.12	2638		06/10/2022 15:52
13C2 8:2FTS	N/A	N/A	8.24	8.20	398727		06/10/2022 15:52
13C6 PFDA	N/A	N/A	8.65	8.61	1746		06/10/2022 15:52
d3-MeFOSAA	N/A	N/A	8.50	8.46	2011		06/10/2022 15:52
13C8 PFOSA	N/A	N/A	10.93	10.88	3244		06/10/2022 15:52
d5-EtFOSAA	N/A	N/A	8.81	8.77	1076		06/10/2022 15:52
13C7 PFUdA	N/A	N/A	9.35	9.31	3523		06/10/2022 15:52
13C2 PFDoA	N/A	N/A	10.05	10.01	1550		06/10/2022 15:52
13C2 PFTeDA	N/A	N/A	11.39	11.36	1859		06/10/2022 15:52
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1694		06/10/2022 15:52
d3-N-MeFOSA	N/A	N/A	12.85	12.79	457		06/10/2022 15:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB142-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490010	Total Amount Extracted	5.16g
Lab File ID	B220610B_006	Percent Moisture	12.6052%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:08	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 15:52
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 15:52
HFPO-DA	0.41	0.30	6.15	6.14	ND		06/10/2022 15:52
PFBS	0.49	0.39	6.13	6.15	ND		06/10/2022 15:52
PFHxA	0.07	0.08	5.86	5.84	ND		06/10/2022 15:52
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 15:52
PFPeS	1.30	0.43	6.93	6.89	ND		06/10/2022 15:52
PFHpA	0.33	0.26	6.55	6.50	ND		06/10/2022 15:52
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 15:52
PFHxS	0.36	0.32	7.69	7.65	ND		06/10/2022 15:52
PFOA	0.43	0.37	7.24	7.22	ND		06/10/2022 15:52
6:2 FTS	0.00	0.76	0.00	6.86	ND		06/10/2022 15:52
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 15:52
PFNA	0.14	0.14	7.94	7.91	ND		06/10/2022 15:52
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 15:52
PFOS	0.36	0.34	9.17	9.11	468		06/10/2022 15:52
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 15:52
PFDA	0.13	0.19	8.65	8.65	ND		06/10/2022 15:52
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 15:52
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 15:52
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 15:52
PFUnDA	0.08	0.13	9.35	9.35	ND		06/10/2022 15:52
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 15:52
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 15:52
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 15:52
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 15:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 15:52
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 15:52
PFTDA	0.18	0.22	11.39	11.36	ND		06/10/2022 15:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB167-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490011	Total Amount Extracted	5.04g
Lab File ID	B220610B_007	Percent Moisture	11.8713%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 09:55	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 16:12
PFPeA	ND	0.11	0.11	0.03	1	2706-90-3		06/10/2022 16:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 16:12
PFBS	ND	0.10	0.10	0.02	1	375-73-5		06/10/2022 16:12
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 16:12
4:2 FTS	ND	0.11	0.11	0.03	1	757124-72-4		06/10/2022 16:12
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/10/2022 16:12
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 16:12
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/10/2022 16:12
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 16:12
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 16:12
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 16:12
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 16:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 16:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 16:12
PFOS	0.38	0.10	0.10	0.03	1	1763-23-1		06/10/2022 16:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 16:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 16:12
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 16:12
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 16:12
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 16:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 16:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 16:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 16:12
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 16:12
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/10/2022 16:12
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/10/2022 16:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 16:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 16:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB167-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490011	Total Amount Extracted	5.04g
Lab File ID	B220610B_007	Percent Moisture	11.8713%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 09:55	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	106	50-150		06/10/2022 16:12
13C4 PFOA	1.1	1.2	104	50-150		06/10/2022 16:12
13C2 PFDA	1.1	1.3	112	50-150		06/10/2022 16:12
13C4 PFOS	1.1	1.2	107	50-150		06/10/2022 16:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	95	50-150		06/10/2022 16:12
13C5 PFPeA	1.1	1.1	101	50-150		06/10/2022 16:12
13C3 PFBS	1.0	0.97	93	50-150		06/10/2022 16:12
13C2 4:2FTS	1.1	1.2	112	50-150		06/10/2022 16:12
13C5 PFHxA	1.1	1.0	92	50-150		06/10/2022 16:12
13C4 PFHpA	1.1	1.2	104	50-150		06/10/2022 16:12
13C3 PFHxS	1.1	1.0	98	50-150		06/10/2022 16:12
13C2 6:2FTS	1.1	1.1	106	50-150		06/10/2022 16:12
13C8 PFOA	1.1	1.1	99	50-150		06/10/2022 16:12
13C9 PFNA	1.1	1.2	106	50-150		06/10/2022 16:12
13C8 PFOS	1.1	1.1	102	50-150		06/10/2022 16:12
13C2 8:2FTS	1.1	1.2	109	50-150		06/10/2022 16:12
13C6 PFDA	1.1	1.2	106	50-150		06/10/2022 16:12
d3-MeFOSAA	1.1	1.2	108	50-150		06/10/2022 16:12
13C8 PFOSA	1.1	1.1	97	50-150		06/10/2022 16:12
d5-EtFOSAA	1.1	1.2	109	50-150		06/10/2022 16:12
13C7 PFUdA	1.1	1.2	110	50-150		06/10/2022 16:12
13C2 PFDoA	1.1	1.4	120	50-150		06/10/2022 16:12
13C2 PFTeDA	1.1	1.2	106	50-150		06/10/2022 16:12
13C3 HFPO-DA	1.1	1.1	98	50-150		06/10/2022 16:12
d3-N-MeFOSA	1.1	0.55	49	10-150		06/10/2022 16:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB167-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490011	Total Amount Extracted	5.04g
Lab File ID	B220610B_007	Percent Moisture	11.8713%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 09:55	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.82	1698		06/10/2022 16:12
13C4 PFOA	N/A	N/A	7.25	7.15	2175		06/10/2022 16:12
13C2 PFDA	N/A	N/A	8.64	8.57	2226		06/10/2022 16:12
13C4 PFOS	N/A	N/A	9.15	9.07	1667		06/10/2022 16:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2428		06/10/2022 16:12
13C5 PFPeA	N/A	N/A	5.15	5.15	2086		06/10/2022 16:12
13C3 PFBS	N/A	N/A	6.13	6.16	1765		06/10/2022 16:12
13C2 4:2FTS	N/A	N/A	5.56	5.56	534		06/10/2022 16:12
13C5 PFHxA	N/A	N/A	5.86	5.85	1389		06/10/2022 16:12
13C4 PFHpA	N/A	N/A	6.56	6.54	1608		06/10/2022 16:12
13C3 PFHxS	N/A	N/A	7.69	7.66	1673		06/10/2022 16:12
13C2 6:2FTS	N/A	N/A	6.89	6.86	1158		06/10/2022 16:12
13C8 PFOA	N/A	N/A	7.25	7.22	2677		06/10/2022 16:12
13C9 PFNA	N/A	N/A	7.94	7.90	2434		06/10/2022 16:12
13C8 PFOS	N/A	N/A	9.15	9.12	2349		06/10/2022 16:12
13C2 8:2FTS	N/A	N/A	8.24	8.20	3287		06/10/2022 16:12
13C6 PFDA	N/A	N/A	8.64	8.61	1797		06/10/2022 16:12
d3-MeFOSAA	N/A	N/A	8.50	8.46	3861		06/10/2022 16:12
13C8 PFOSA	N/A	N/A	10.92	10.88	3383		06/10/2022 16:12
d5-EtFOSAA	N/A	N/A	8.81	8.77	857		06/10/2022 16:12
13C7 PFUdA	N/A	N/A	9.34	9.31	2862		06/10/2022 16:12
13C2 PFDoA	N/A	N/A	10.04	10.01	1292		06/10/2022 16:12
13C2 PFTeDA	N/A	N/A	11.38	11.36	1182		06/10/2022 16:12
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1423		06/10/2022 16:12
d3-N-MeFOSA	N/A	N/A	12.85	12.79	954		06/10/2022 16:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB167-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490011	Total Amount Extracted	5.04g
Lab File ID	B220610B_007	Percent Moisture	11.8713%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 09:55	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 16:12
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 16:12
HFPO-DA	0.25	0.30	6.16	6.14	ND		06/10/2022 16:12
PFBS	0.34	0.39	6.14	6.15	ND		06/10/2022 16:12
PFHxA	0.07	0.08	5.86	5.84	ND		06/10/2022 16:12
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 16:12
PFPeS	0.45	0.43	6.95	6.89	ND		06/10/2022 16:12
PFHpA	0.30	0.26	6.57	6.50	ND		06/10/2022 16:12
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 16:12
PFHxS	0.29	0.32	7.70	7.65	ND		06/10/2022 16:12
PFOA	0.39	0.37	7.26	7.22	ND		06/10/2022 16:12
6:2 FTS	1.30	0.76	6.88	6.86	ND		06/10/2022 16:12
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 16:12
PFNA	0.13	0.14	7.95	7.91	ND		06/10/2022 16:12
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 16:12
PFOS	0.37	0.34	9.16	9.11	398		06/10/2022 16:12
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 16:12
PFDA	0.19	0.19	8.66	8.65	ND		06/10/2022 16:12
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 16:12
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 16:12
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 16:12
PFUnDA	0.09	0.13	9.35	9.35	ND		06/10/2022 16:12
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 16:12
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 16:12
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 16:12
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 16:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 16:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 16:12
PFTDA	0.00	0.22	0.00	11.36	ND		06/10/2022 16:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

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Client Sample ID	SB134-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490012	Total Amount Extracted	5.12g
Lab File ID	B220610B_008	Percent Moisture	12.1762%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:36	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 16:32
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 16:32
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 16:32
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 16:32
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 16:32
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 16:32
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 16:32
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 16:32
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/10/2022 16:32
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 16:32
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 16:32
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 16:32
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 16:32
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 16:32
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 16:32
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 16:32
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 16:32
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 16:32
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 16:32
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 16:32
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 16:32
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 16:32
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 16:32
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 16:32
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 16:32
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/10/2022 16:32
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 16:32
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 16:32
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 16:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB134-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490012	Total Amount Extracted	5.12g
Lab File ID	B220610B_008	Percent Moisture	12.1762%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:36	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	114	50-150		06/10/2022 16:32
13C4 PFOA	1.1	1.1	103	50-150		06/10/2022 16:32
13C2 PFDA	1.1	1.3	114	50-150		06/10/2022 16:32
13C4 PFOS	1.1	1.3	126	50-150		06/10/2022 16:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.2	104	50-150		06/10/2022 16:32
13C5 PFPeA	1.1	1.2	107	50-150		06/10/2022 16:32
13C3 PFBS	1.0	1.0	102	50-150		06/10/2022 16:32
13C2 4:2FTS	1.0	1.2	112	50-150		06/10/2022 16:32
13C5 PFHxA	1.1	1.1	103	50-150		06/10/2022 16:32
13C4 PFHpA	1.1	1.2	111	50-150		06/10/2022 16:32
13C3 PFHxS	1.1	1.1	102	50-150		06/10/2022 16:32
13C2 6:2FTS	1.1	1.1	108	50-150		06/10/2022 16:32
13C8 PFOA	1.1	1.2	105	50-150		06/10/2022 16:32
13C9 PFNA	1.1	1.2	111	50-150		06/10/2022 16:32
13C8 PFOS	1.1	1.1	104	50-150		06/10/2022 16:32
13C2 8:2FTS	1.1	1.1	107	50-150		06/10/2022 16:32
13C6 PFDA	1.1	1.2	109	50-150		06/10/2022 16:32
d3-MeFOSAA	1.1	1.3	117	50-150		06/10/2022 16:32
13C8 PFOSA	1.1	1.1	100	50-150		06/10/2022 16:32
d5-EtFOSAA	1.1	1.2	111	50-150		06/10/2022 16:32
13C7 PFUdA	1.1	1.2	105	50-150		06/10/2022 16:32
13C2 PFDoA	1.1	1.4	123	50-150		06/10/2022 16:32
13C2 PFTeDA	1.1	1.1	100	50-150		06/10/2022 16:32
13C3 HFPO-DA	1.1	1.2	111	50-150		06/10/2022 16:32
d3-N-MeFOSA	1.1	0.44	40	10-150		06/10/2022 16:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB134-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490012	Total Amount Extracted	5.12g
Lab File ID	B220610B_008	Percent Moisture	12.1762%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:36	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1718		06/10/2022 16:32
13C4 PFOA	N/A	N/A	7.26	7.15	2317		06/10/2022 16:32
13C2 PFDA	N/A	N/A	8.64	8.57	2644		06/10/2022 16:32
13C4 PFOS	N/A	N/A	9.15	9.07	3025		06/10/2022 16:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2206		06/10/2022 16:32
13C5 PFPeA	N/A	N/A	5.16	5.15	2210		06/10/2022 16:32
13C3 PFBS	N/A	N/A	6.13	6.16	1854		06/10/2022 16:32
13C2 4:2FTS	N/A	N/A	5.57	5.56	663		06/10/2022 16:32
13C5 PFHxA	N/A	N/A	5.86	5.85	2131		06/10/2022 16:32
13C4 PFHpA	N/A	N/A	6.56	6.54	1589		06/10/2022 16:32
13C3 PFHxS	N/A	N/A	7.70	7.66	1955		06/10/2022 16:32
13C2 6:2FTS	N/A	N/A	6.90	6.86	1331		06/10/2022 16:32
13C8 PFOA	N/A	N/A	7.26	7.22	2714		06/10/2022 16:32
13C9 PFNA	N/A	N/A	7.95	7.90	1849		06/10/2022 16:32
13C8 PFOS	N/A	N/A	9.15	9.12	2256		06/10/2022 16:32
13C2 8:2FTS	N/A	N/A	8.24	8.20	1914		06/10/2022 16:32
13C6 PFDA	N/A	N/A	8.65	8.61	2235		06/10/2022 16:32
d3-MeFOSAA	N/A	N/A	8.50	8.46	3803		06/10/2022 16:32
13C8 PFOSA	N/A	N/A	10.92	10.88	2802		06/10/2022 16:32
d5-EtFOSAA	N/A	N/A	8.81	8.77	926		06/10/2022 16:32
13C7 PFUdA	N/A	N/A	9.34	9.31	2792		06/10/2022 16:32
13C2 PFDoA	N/A	N/A	10.05	10.01	1257		06/10/2022 16:32
13C2 PFTeDA	N/A	N/A	11.38	11.36	1211		06/10/2022 16:32
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1761		06/10/2022 16:32
d3-N-MeFOSA	N/A	N/A	12.84	12.79	833		06/10/2022 16:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB134-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490012	Total Amount Extracted	5.12g
Lab File ID	B220610B_008	Percent Moisture	12.1762%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:36	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 16:32
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 16:32
HFPO-DA	0.30	0.30	6.16	6.14	ND		06/10/2022 16:32
PFBS	0.31	0.39	6.14	6.15	ND		06/10/2022 16:32
PFHxA	0.07	0.08	5.87	5.84	ND		06/10/2022 16:32
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 16:32
PFPeS	0.28	0.43	6.95	6.89	ND		06/10/2022 16:32
PFHpA	0.33	0.26	6.57	6.50	ND		06/10/2022 16:32
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 16:32
PFHxS	0.31	0.32	7.71	7.65	ND		06/10/2022 16:32
PFOA	0.48	0.37	7.26	7.22	ND		06/10/2022 16:32
6:2 FTS	0.97	0.76	6.89	6.86	ND		06/10/2022 16:32
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 16:32
PFNA	0.07	0.14	7.95	7.91	ND		06/10/2022 16:32
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 16:32
PFOS	0.45	0.34	9.16	9.11	ND		06/10/2022 16:32
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 16:32
PFDA	0.00	0.19	0.00	8.65	ND		06/10/2022 16:32
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 16:32
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 16:32
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 16:32
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 16:32
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 16:32
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 16:32
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 16:32
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 16:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 16:32
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 16:32
PFTDA	0.00	0.22	0.00	11.36	ND		06/10/2022 16:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB166-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490013	Total Amount Extracted	5.14g
Lab File ID	B220610B_009	Percent Moisture	7.9981%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 10:29	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 16:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 16:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 16:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 16:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 16:52
4:2 FTS	ND	0.09	0.09	0.03	1	757124-72-4		06/10/2022 16:52
PFPeS	ND	0.09	0.09	0.02	1	2706-91-4		06/10/2022 16:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 16:52
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 16:52
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 16:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 16:52
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 16:52
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 16:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 16:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 16:52
PFOS	ND	0.09	0.09	0.02	1	1763-23-1		06/10/2022 16:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 16:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 16:52
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 16:52
9-CI-PF3ON	ND	0.09	0.09	0.01	1	756426-58-1		06/10/2022 16:52
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 16:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 16:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 16:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 16:52
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 16:52
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 16:52
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 16:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 16:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 16:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB166-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490013	Total Amount Extracted	5.14g
Lab File ID	B220610B_009	Percent Moisture	7.9981%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 10:29	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	112	50-150		06/10/2022 16:52
13C4 PFOA	1.1	1.2	112	50-150		06/10/2022 16:52
13C2 PFDA	1.1	1.2	115	50-150		06/10/2022 16:52
13C4 PFOS	1.0	1.3	125	50-150		06/10/2022 16:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	99	50-150		06/10/2022 16:52
13C5 PFPeA	1.1	1.0	99	50-150		06/10/2022 16:52
13C3 PFBS	0.98	0.93	95	50-150		06/10/2022 16:52
13C2 4:2FTS	0.99	1.1	111	50-150		06/10/2022 16:52
13C5 PFHxA	1.1	1.0	98	50-150		06/10/2022 16:52
13C4 PFHpA	1.1	0.99	94	50-150		06/10/2022 16:52
13C3 PFHxS	1.00	1.0	100	50-150		06/10/2022 16:52
13C2 6:2FTS	1.0	1.1	106	50-150		06/10/2022 16:52
13C8 PFOA	1.1	1.1	101	50-150		06/10/2022 16:52
13C9 PFNA	1.1	1.1	104	50-150		06/10/2022 16:52
13C8 PFOS	1.0	1.1	105	50-150		06/10/2022 16:52
13C2 8:2FTS	1.0	1.1	109	50-150		06/10/2022 16:52
13C6 PFDA	1.1	1.2	111	50-150		06/10/2022 16:52
d3-MeFOSAA	1.1	1.1	101	50-150		06/10/2022 16:52
13C8 PFOSA	1.1	0.99	94	50-150		06/10/2022 16:52
d5-EtFOSAA	1.1	1.1	100	50-150		06/10/2022 16:52
13C7 PFUdA	1.1	1.2	114	50-150		06/10/2022 16:52
13C2 PFDoA	1.1	1.3	120	50-150		06/10/2022 16:52
13C2 PFTeDA	1.1	1.2	112	50-150		06/10/2022 16:52
13C3 HFPO-DA	1.1	1.1	102	50-150		06/10/2022 16:52
d3-N-MeFOSA	1.1	0.60	57	10-150		06/10/2022 16:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB166-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490013	Total Amount Extracted	5.14g
Lab File ID	B220610B_009	Percent Moisture	7.9981%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 10:29	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1603		06/10/2022 16:52
13C4 PFOA	N/A	N/A	7.25	7.15	1980		06/10/2022 16:52
13C2 PFDA	N/A	N/A	8.64	8.57	2125		06/10/2022 16:52
13C4 PFOS	N/A	N/A	9.15	9.07	1223		06/10/2022 16:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2541		06/10/2022 16:52
13C5 PFPeA	N/A	N/A	5.16	5.15	1742		06/10/2022 16:52
13C3 PFBS	N/A	N/A	6.14	6.16	1630		06/10/2022 16:52
13C2 4:2FTS	N/A	N/A	5.57	5.56	564		06/10/2022 16:52
13C5 PFHxA	N/A	N/A	5.86	5.85	1886		06/10/2022 16:52
13C4 PFHpA	N/A	N/A	6.56	6.54	1389		06/10/2022 16:52
13C3 PFHxS	N/A	N/A	7.69	7.66	2079		06/10/2022 16:52
13C2 6:2FTS	N/A	N/A	6.90	6.86	782		06/10/2022 16:52
13C8 PFOA	N/A	N/A	7.25	7.22	2520		06/10/2022 16:52
13C9 PFNA	N/A	N/A	7.94	7.90	2508		06/10/2022 16:52
13C8 PFOS	N/A	N/A	9.15	9.12	2535		06/10/2022 16:52
13C2 8:2FTS	N/A	N/A	8.24	8.20	1428		06/10/2022 16:52
13C6 PFDA	N/A	N/A	8.65	8.61	1688		06/10/2022 16:52
d3-MeFOSAA	N/A	N/A	8.50	8.46	1716		06/10/2022 16:52
13C8 PFOSA	N/A	N/A	10.92	10.88	2743		06/10/2022 16:52
d5-EtFOSAA	N/A	N/A	8.81	8.77	1109		06/10/2022 16:52
13C7 PFUdA	N/A	N/A	9.34	9.31	1909		06/10/2022 16:52
13C2 PFDoA	N/A	N/A	10.05	10.01	1800		06/10/2022 16:52
13C2 PFTeDA	N/A	N/A	11.38	11.36	1309		06/10/2022 16:52
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1484		06/10/2022 16:52
d3-N-MeFOSA	N/A	N/A	12.85	12.79	830		06/10/2022 16:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB166-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490013	Total Amount Extracted	5.14g
Lab File ID	B220610B_009	Percent Moisture	7.9981%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 10:29	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 16:52
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 16:52
HFPO-DA	0.29	0.30	6.17	6.14	ND		06/10/2022 16:52
PFBS	0.63	0.39	6.15	6.15	ND		06/10/2022 16:52
PFHxA	0.09	0.08	5.87	5.84	ND		06/10/2022 16:52
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 16:52
PFPeS	0.37	0.43	6.94	6.89	ND		06/10/2022 16:52
PFHpA	0.31	0.26	6.57	6.50	ND		06/10/2022 16:52
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 16:52
PFHxS	0.33	0.32	7.70	7.65	ND		06/10/2022 16:52
PFOA	0.46	0.37	7.26	7.22	ND		06/10/2022 16:52
6:2 FTS	1.70	0.76	6.90	6.86	ND		06/10/2022 16:52
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 16:52
PFNA	0.00	0.14	0.00	7.91	ND		06/10/2022 16:52
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 16:52
PFOS	0.41	0.34	9.17	9.11	ND		06/10/2022 16:52
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 16:52
PFDA	0.08	0.19	8.65	8.65	ND		06/10/2022 16:52
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 16:52
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 16:52
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 16:52
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 16:52
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 16:52
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 16:52
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 16:52
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 16:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 16:52
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 16:52
PFTDA	0.00	0.22	0.00	11.36	ND		06/10/2022 16:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB136-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490014	Total Amount Extracted	5.03g
Lab File ID	B220610B_010	Percent Moisture	7.4378%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:58	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 17:12
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 17:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 17:12
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 17:12
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 17:12
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 17:12
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 17:12
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 17:12
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 17:12
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 17:12
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 17:12
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 17:12
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 17:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 17:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 17:12
PFOS	0.12	0.09	0.09	0.03	1	1763-23-1		06/10/2022 17:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 17:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 17:12
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 17:12
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 17:12
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 17:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 17:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 17:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 17:12
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 17:12
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 17:12
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 17:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 17:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 17:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB136-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490014	Total Amount Extracted	5.03g
Lab File ID	B220610B_010	Percent Moisture	7.4378%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:58	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	109	50-150		06/10/2022 17:12
13C4 PFOA	1.1	1.1	103	50-150		06/10/2022 17:12
13C2 PFDA	1.1	1.3	120	50-150		06/10/2022 17:12
13C4 PFOS	1.0	1.3	125	50-150		06/10/2022 17:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	103	50-150		06/10/2022 17:12
13C5 PFPeA	1.1	1.1	104	50-150		06/10/2022 17:12
13C3 PFBS	1.00	1.0	101	50-150		06/10/2022 17:12
13C2 4:2FTS	1.0	1.1	114	50-150		06/10/2022 17:12
13C5 PFHxA	1.1	1.1	101	50-150		06/10/2022 17:12
13C4 PFHpA	1.1	1.2	111	50-150		06/10/2022 17:12
13C3 PFHxS	1.0	1.0	102	50-150		06/10/2022 17:12
13C2 6:2FTS	1.0	1.1	104	50-150		06/10/2022 17:12
13C8 PFOA	1.1	1.1	105	50-150		06/10/2022 17:12
13C9 PFNA	1.1	1.2	109	50-150		06/10/2022 17:12
13C8 PFOS	1.0	1.1	108	50-150		06/10/2022 17:12
13C2 8:2FTS	1.0	1.2	119	50-150		06/10/2022 17:12
13C6 PFDA	1.1	1.2	111	50-150		06/10/2022 17:12
d3-MeFOSAA	1.1	1.2	110	50-150		06/10/2022 17:12
13C8 PFOSA	1.1	1.1	98	50-150		06/10/2022 17:12
d5-EtFOSAA	1.1	1.2	115	50-150		06/10/2022 17:12
13C7 PFUdA	1.1	1.2	113	50-150		06/10/2022 17:12
13C2 PFDoA	1.1	1.3	121	50-150		06/10/2022 17:12
13C2 PFTeDA	1.1	1.2	111	50-150		06/10/2022 17:12
13C3 HFPO-DA	1.1	1.2	109	50-150		06/10/2022 17:12
d3-N-MeFOSA	1.1	0.43	40	10-150		06/10/2022 17:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB136-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490014	Total Amount Extracted	5.03g
Lab File ID	B220610B_010	Percent Moisture	7.4378%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:58	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1518		06/10/2022 17:12
13C4 PFOA	N/A	N/A	7.24	7.15	2478		06/10/2022 17:12
13C2 PFDA	N/A	N/A	8.65	8.57	2315		06/10/2022 17:12
13C4 PFOS	N/A	N/A	9.15	9.07	1691		06/10/2022 17:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.33	4.37	2100		06/10/2022 17:12
13C5 PFPeA	N/A	N/A	5.16	5.15	2022		06/10/2022 17:12
13C3 PFBS	N/A	N/A	6.13	6.16	1436		06/10/2022 17:12
13C2 4:2FTS	N/A	N/A	5.57	5.56	563		06/10/2022 17:12
13C5 PFHxA	N/A	N/A	5.86	5.85	1826		06/10/2022 17:12
13C4 PFHpA	N/A	N/A	6.55	6.54	1976		06/10/2022 17:12
13C3 PFHxS	N/A	N/A	7.69	7.66	2039		06/10/2022 17:12
13C2 6:2FTS	N/A	N/A	6.88	6.86	1120		06/10/2022 17:12
13C8 PFOA	N/A	N/A	7.24	7.22	3175		06/10/2022 17:12
13C9 PFNA	N/A	N/A	7.94	7.90	2526		06/10/2022 17:12
13C8 PFOS	N/A	N/A	9.16	9.12	2440		06/10/2022 17:12
13C2 8:2FTS	N/A	N/A	8.24	8.20	8039		06/10/2022 17:12
13C6 PFDA	N/A	N/A	8.65	8.61	1701		06/10/2022 17:12
d3-MeFOSAA	N/A	N/A	8.50	8.46	1936		06/10/2022 17:12
13C8 PFOSA	N/A	N/A	10.92	10.88	2767		06/10/2022 17:12
d5-EtFOSAA	N/A	N/A	8.81	8.77	1118		06/10/2022 17:12
13C7 PFUdA	N/A	N/A	9.34	9.31	3046		06/10/2022 17:12
13C2 PFDoA	N/A	N/A	10.04	10.01	1264		06/10/2022 17:12
13C2 PFTeDA	N/A	N/A	11.38	11.36	1354		06/10/2022 17:12
13C3 HFPO-DA	N/A	N/A	6.14	6.13	2019		06/10/2022 17:12
d3-N-MeFOSA	N/A	N/A	12.85	12.79	817		06/10/2022 17:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB136-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490014	Total Amount Extracted	5.03g
Lab File ID	B220610B_010	Percent Moisture	7.4378%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:58	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 17:12
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 17:12
HFPO-DA	0.29	0.30	6.17	6.14	ND		06/10/2022 17:12
PFBS	0.90	0.39	6.13	6.15	ND		06/10/2022 17:12
PFHxA	0.08	0.08	5.87	5.84	ND		06/10/2022 17:12
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 17:12
PFPeS	0.42	0.43	6.94	6.89	ND		06/10/2022 17:12
PFHpA	0.31	0.26	6.56	6.50	ND		06/10/2022 17:12
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 17:12
PFHxS	0.33	0.32	7.70	7.65	ND		06/10/2022 17:12
PFOA	0.41	0.37	7.25	7.22	ND		06/10/2022 17:12
6:2 FTS	0.86	0.76	6.88	6.86	ND		06/10/2022 17:12
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 17:12
PFNA	0.12	0.14	7.95	7.91	ND		06/10/2022 17:12
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 17:12
PFOS	0.36	0.34	9.17	9.11	476		06/10/2022 17:12
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 17:12
PFDA	0.17	0.19	8.65	8.65	ND		06/10/2022 17:12
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 17:12
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 17:12
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 17:12
PFUnDA	0.05	0.13	9.34	9.35	ND		06/10/2022 17:12
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 17:12
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 17:12
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 17:12
PFDOA	0.24	0.18	10.04	10.02	ND		06/10/2022 17:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 17:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 17:12
PFTDA	0.00	0.22	0.00	11.36	ND		06/10/2022 17:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB150-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490015	Total Amount Extracted	5.08g
Lab File ID	B220610B_011	Percent Moisture	9.7662%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:38	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 17:32
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 17:32
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 17:32
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 17:32
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 17:32
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 17:32
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 17:32
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 17:32
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 17:32
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 17:32
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 17:32
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 17:32
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 17:32
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 17:32
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 17:32
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 17:32
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 17:32
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 17:32
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 17:32
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 17:32
PFNS	ND	0.10	0.10	0.02	1	68259-12-1		06/10/2022 17:32
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 17:32
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 17:32
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 17:32
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 17:32
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 17:32
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 17:32
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 17:32
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 17:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB150-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490015	Total Amount Extracted	5.08g
Lab File ID	B220610B_011	Percent Moisture	9.7662%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:38	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	116	50-150		06/10/2022 17:32
13C4 PFOA	1.1	1.2	107	50-150		06/10/2022 17:32
13C2 PFDA	1.1	1.3	121	50-150		06/10/2022 17:32
13C4 PFOS	1.0	1.3	127	50-150		06/10/2022 17:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	99	50-150		06/10/2022 17:32
13C5 PFPeA	1.1	1.1	104	50-150		06/10/2022 17:32
13C3 PFBS	1.0	1.0	100	50-150		06/10/2022 17:32
13C2 4:2FTS	1.0	1.3	128	50-150		06/10/2022 17:32
13C5 PFHxA	1.1	1.1	103	50-150		06/10/2022 17:32
13C4 PFHpA	1.1	1.2	110	50-150		06/10/2022 17:32
13C3 PFHxS	1.0	1.0	101	50-150		06/10/2022 17:32
13C2 6:2FTS	1.0	1.2	116	50-150		06/10/2022 17:32
13C8 PFOA	1.1	1.2	107	50-150		06/10/2022 17:32
13C9 PFNA	1.1	1.3	117	50-150		06/10/2022 17:32
13C8 PFOS	1.0	1.1	107	50-150		06/10/2022 17:32
13C2 8:2FTS	1.0	1.2	115	50-150		06/10/2022 17:32
13C6 PFDA	1.1	1.2	111	50-150		06/10/2022 17:32
d3-MeFOSAA	1.1	1.2	111	50-150		06/10/2022 17:32
13C8 PFOSA	1.1	1.1	100	50-150		06/10/2022 17:32
d5-EtFOSAA	1.1	1.2	110	50-150		06/10/2022 17:32
13C7 PFUdA	1.1	1.3	120	50-150		06/10/2022 17:32
13C2 PFDoA	1.1	1.4	130	50-150		06/10/2022 17:32
13C2 PFTeDA	1.1	1.2	113	50-150		06/10/2022 17:32
13C3 HFPO-DA	1.1	1.1	105	50-150		06/10/2022 17:32
d3-N-MeFOSA	1.1	0.65	60	10-150		06/10/2022 17:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB150-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490015	Total Amount Extracted	5.08g
Lab File ID	B220610B_011	Percent Moisture	9.7662%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:38	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.84	5.82	1972		06/10/2022 17:32
13C4 PFOA	N/A	N/A	7.27	7.15	2288		06/10/2022 17:32
13C2 PFDA	N/A	N/A	8.65	8.57	1858		06/10/2022 17:32
13C4 PFOS	N/A	N/A	9.15	9.07	1771		06/10/2022 17:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2528		06/10/2022 17:32
13C5 PFPeA	N/A	N/A	5.16	5.15	1977		06/10/2022 17:32
13C3 PFBS	N/A	N/A	6.13	6.16	4361		06/10/2022 17:32
13C2 4:2FTS	N/A	N/A	5.56	5.56	478		06/10/2022 17:32
13C5 PFHxA	N/A	N/A	5.85	5.85	1797		06/10/2022 17:32
13C4 PFHpA	N/A	N/A	6.56	6.54	1753		06/10/2022 17:32
13C3 PFHxS	N/A	N/A	7.71	7.66	1986		06/10/2022 17:32
13C2 6:2FTS	N/A	N/A	6.91	6.86	1030		06/10/2022 17:32
13C8 PFOA	N/A	N/A	7.27	7.22	3686		06/10/2022 17:32
13C9 PFNA	N/A	N/A	7.96	7.90	2585		06/10/2022 17:32
13C8 PFOS	N/A	N/A	9.16	9.12	1961		06/10/2022 17:32
13C2 8:2FTS	N/A	N/A	8.26	8.20	1293		06/10/2022 17:32
13C6 PFDA	N/A	N/A	8.65	8.61	2004		06/10/2022 17:32
d3-MeFOSAA	N/A	N/A	8.51	8.46	1864		06/10/2022 17:32
13C8 PFOSA	N/A	N/A	10.92	10.88	2473		06/10/2022 17:32
d5-EtFOSAA	N/A	N/A	8.82	8.77	735		06/10/2022 17:32
13C7 PFUdA	N/A	N/A	9.35	9.31	2772		06/10/2022 17:32
13C2 PFDoA	N/A	N/A	10.05	10.01	1210		06/10/2022 17:32
13C2 PFTeDA	N/A	N/A	11.37	11.36	1620		06/10/2022 17:32
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1545		06/10/2022 17:32
d3-N-MeFOSA	N/A	N/A	12.84	12.79	790		06/10/2022 17:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB150-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490015	Total Amount Extracted	5.08g
Lab File ID	B220610B_011	Percent Moisture	9.7662%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:38	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 17:32
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 17:32
HFPO-DA	0.52	0.30	6.15	6.14	ND		06/10/2022 17:32
PFBS	0.73	0.39	6.14	6.15	ND		06/10/2022 17:32
PFHxA	0.00	0.08	0.00	5.84	ND		06/10/2022 17:32
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 17:32
PFPeS	0.00	0.43	0.00	6.89	ND		06/10/2022 17:32
PFHpA	0.26	0.26	6.57	6.50	ND		06/10/2022 17:32
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 17:32
PFHxS	0.45	0.32	7.72	7.65	ND		06/10/2022 17:32
PFOA	0.45	0.37	7.27	7.22	ND		06/10/2022 17:32
6:2 FTS	0.69	0.76	6.90	6.86	ND		06/10/2022 17:32
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 17:32
PFNA	0.15	0.14	7.97	7.91	ND		06/10/2022 17:32
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 17:32
PFOS	0.37	0.34	9.17	9.11	ND		06/10/2022 17:32
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 17:32
PFDA	0.11	0.19	8.67	8.65	ND		06/10/2022 17:32
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 17:32
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 17:32
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 17:32
PFUnDA	0.11	0.13	9.35	9.35	ND		06/10/2022 17:32
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 17:32
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 17:32
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 17:32
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 17:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 17:32
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 17:32
PFTDA	0.00	0.22	0.00	11.36	ND		06/10/2022 17:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB134-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490016	Total Amount Extracted	5.15g
Lab File ID	B220610B_012	Percent Moisture	9.653%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:31	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 17:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 17:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 17:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 17:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 17:52
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 17:52
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 17:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 17:52
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 17:52
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 17:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 17:52
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 17:52
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 17:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 17:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 17:52
PFOS	ND	0.09	0.09	0.03	1	1763-23-1		06/10/2022 17:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 17:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 17:52
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 17:52
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 17:52
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 17:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 17:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 17:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 17:52
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 17:52
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 17:52
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 17:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 17:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 17:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB134-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490016	Total Amount Extracted	5.15g
Lab File ID	B220610B_012	Percent Moisture	9.653%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:31	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	115	50-150		06/10/2022 17:52
13C4 PFOA	1.1	1.2	109	50-150		06/10/2022 17:52
13C2 PFDA	1.1	1.3	123	50-150		06/10/2022 17:52
13C4 PFOS	1.0	1.4	135	50-150		06/10/2022 17:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	98	50-150		06/10/2022 17:52
13C5 PFPeA	1.1	1.1	102	50-150		06/10/2022 17:52
13C3 PFBS	1.00	0.97	97	50-150		06/10/2022 17:52
13C2 4:2FTS	1.0	1.1	105	50-150		06/10/2022 17:52
13C5 PFHxA	1.1	1.1	100	50-150		06/10/2022 17:52
13C4 PFHpA	1.1	1.1	105	50-150		06/10/2022 17:52
13C3 PFHxS	1.0	1.0	103	50-150		06/10/2022 17:52
13C2 6:2FTS	1.0	1.2	114	50-150		06/10/2022 17:52
13C8 PFOA	1.1	1.1	105	50-150		06/10/2022 17:52
13C9 PFNA	1.1	1.1	103	50-150		06/10/2022 17:52
13C8 PFOS	1.0	1.1	111	50-150		06/10/2022 17:52
13C2 8:2FTS	1.0	1.2	112	50-150		06/10/2022 17:52
13C6 PFDA	1.1	1.2	108	50-150		06/10/2022 17:52
d3-MeFOSAA	1.1	1.2	113	50-150		06/10/2022 17:52
13C8 PFOSA	1.1	1.0	94	50-150		06/10/2022 17:52
d5-EtFOSAA	1.1	1.2	112	50-150		06/10/2022 17:52
13C7 PFUdA	1.1	1.2	112	50-150		06/10/2022 17:52
13C2 PFDoA	1.1	1.3	124	50-150		06/10/2022 17:52
13C2 PFTeDA	1.1	1.1	105	50-150		06/10/2022 17:52
13C3 HFPO-DA	1.1	1.1	102	50-150		06/10/2022 17:52
d3-N-MeFOSA	1.1	0.16	15	10-150		06/10/2022 17:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB134-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490016	Total Amount Extracted	5.15g
Lab File ID	B220610B_012	Percent Moisture	9.653%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:31	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1662		06/10/2022 17:52
13C4 PFOA	N/A	N/A	7.24	7.15	1873		06/10/2022 17:52
13C2 PFDA	N/A	N/A	8.64	8.57	2105		06/10/2022 17:52
13C4 PFOS	N/A	N/A	9.15	9.07	2322		06/10/2022 17:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2142		06/10/2022 17:52
13C5 PFPeA	N/A	N/A	5.16	5.15	1873		06/10/2022 17:52
13C3 PFBS	N/A	N/A	6.13	6.16	2663		06/10/2022 17:52
13C2 4:2FTS	N/A	N/A	5.57	5.56	537		06/10/2022 17:52
13C5 PFHxA	N/A	N/A	5.86	5.85	2130		06/10/2022 17:52
13C4 PFHpA	N/A	N/A	6.55	6.54	1774		06/10/2022 17:52
13C3 PFHxS	N/A	N/A	7.68	7.66	1932		06/10/2022 17:52
13C2 6:2FTS	N/A	N/A	6.88	6.86	1393		06/10/2022 17:52
13C8 PFOA	N/A	N/A	7.24	7.22	2591		06/10/2022 17:52
13C9 PFNA	N/A	N/A	7.93	7.90	1969		06/10/2022 17:52
13C8 PFOS	N/A	N/A	9.15	9.12	2092		06/10/2022 17:52
13C2 8:2FTS	N/A	N/A	8.23	8.20	2783		06/10/2022 17:52
13C6 PFDA	N/A	N/A	8.64	8.61	2092		06/10/2022 17:52
d3-MeFOSAA	N/A	N/A	8.49	8.46	1896		06/10/2022 17:52
13C8 PFOSA	N/A	N/A	10.92	10.88	2216		06/10/2022 17:52
d5-EtFOSAA	N/A	N/A	8.81	8.77	1037		06/10/2022 17:52
13C7 PFUdA	N/A	N/A	9.34	9.31	2659		06/10/2022 17:52
13C2 PFDoA	N/A	N/A	10.04	10.01	1514		06/10/2022 17:52
13C2 PFTeDA	N/A	N/A	11.38	11.36	1304		06/10/2022 17:52
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1610		06/10/2022 17:52
d3-N-MeFOSA	N/A	N/A	12.84	12.79	404		06/10/2022 17:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB134-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490016	Total Amount Extracted	5.15g
Lab File ID	B220610B_012	Percent Moisture	9.653%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:31	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 17:52
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 17:52
HFPO-DA	0.38	0.30	6.16	6.14	ND		06/10/2022 17:52
PFBS	0.34	0.39	6.13	6.15	ND		06/10/2022 17:52
PFHxA	0.07	0.08	5.87	5.84	ND		06/10/2022 17:52
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 17:52
PFPeS	0.51	0.43	6.94	6.89	ND		06/10/2022 17:52
PFHpA	0.29	0.26	6.56	6.50	ND		06/10/2022 17:52
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 17:52
PFHxS	0.38	0.32	7.69	7.65	ND		06/10/2022 17:52
PFOA	0.44	0.37	7.25	7.22	ND		06/10/2022 17:52
6:2 FTS	0.85	0.76	6.88	6.86	ND		06/10/2022 17:52
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 17:52
PFNA	0.20	0.14	7.94	7.91	ND		06/10/2022 17:52
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 17:52
PFOS	0.33	0.34	9.16	9.11	ND		06/10/2022 17:52
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 17:52
PFDA	0.00	0.19	0.00	8.65	ND		06/10/2022 17:52
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 17:52
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 17:52
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 17:52
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 17:52
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 17:52
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 17:52
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 17:52
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 17:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 17:52
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 17:52
PFTDA	0.15	0.22	11.38	11.36	ND		06/10/2022 17:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490017	Total Amount Extracted	5.13g
Lab File ID	B220610B_013	Percent Moisture	11.846%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:51	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 18:12
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 18:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 18:12
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 18:12
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 18:12
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 18:12
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 18:12
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 18:12
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 18:12
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 18:12
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 18:12
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 18:12
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 18:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 18:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 18:12
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 18:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 18:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 18:12
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 18:12
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 18:12
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 18:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 18:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 18:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 18:12
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 18:12
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 18:12
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 18:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 18:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 18:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490017	Total Amount Extracted	5.13g
Lab File ID	B220610B_013	Percent Moisture	11.846%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:51	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	118	50-150		06/10/2022 18:12
13C4 PFOA	1.1	1.3	114	50-150		06/10/2022 18:12
13C2 PFDA	1.1	1.4	125	50-150		06/10/2022 18:12
13C4 PFOS	1.1	1.4	133	50-150		06/10/2022 18:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	101	50-150		06/10/2022 18:12
13C5 PFPeA	1.1	1.2	104	50-150		06/10/2022 18:12
13C3 PFBS	1.0	1.0	101	50-150		06/10/2022 18:12
13C2 4:2FTS	1.0	1.2	114	50-150		06/10/2022 18:12
13C5 PFHxA	1.1	1.1	97	50-150		06/10/2022 18:12
13C4 PFHpA	1.1	1.2	107	50-150		06/10/2022 18:12
13C3 PFHxS	1.0	1.1	103	50-150		06/10/2022 18:12
13C2 6:2FTS	1.0	1.2	110	50-150		06/10/2022 18:12
13C8 PFOA	1.1	1.1	101	50-150		06/10/2022 18:12
13C9 PFNA	1.1	1.2	109	50-150		06/10/2022 18:12
13C8 PFOS	1.1	1.1	103	50-150		06/10/2022 18:12
13C2 8:2FTS	1.1	1.2	115	50-150		06/10/2022 18:12
13C6 PFDA	1.1	1.2	108	50-150		06/10/2022 18:12
d3-MeFOSAA	1.1	1.2	109	50-150		06/10/2022 18:12
13C8 PFOSA	1.1	0.98	89	50-150		06/10/2022 18:12
d5-EtFOSAA	1.1	1.2	108	50-150		06/10/2022 18:12
13C7 PFUdA	1.1	1.3	119	50-150		06/10/2022 18:12
13C2 PFDoA	1.1	1.4	123	50-150		06/10/2022 18:12
13C2 PFTeDA	1.1	1.2	108	50-150		06/10/2022 18:12
13C3 HFPO-DA	1.1	1.1	100	50-150		06/10/2022 18:12
d3-N-MeFOSA	1.1	0.046	4	10-150	R	06/10/2022 18:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490017	Total Amount Extracted	5.13g
Lab File ID	B220610B_013	Percent Moisture	11.846%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:51	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.82	1706		06/10/2022 18:12
13C4 PFOA	N/A	N/A	7.24	7.15	2762		06/10/2022 18:12
13C2 PFDA	N/A	N/A	8.64	8.57	2097		06/10/2022 18:12
13C4 PFOS	N/A	N/A	9.15	9.07	1528		06/10/2022 18:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2534		06/10/2022 18:12
13C5 PFPeA	N/A	N/A	5.15	5.15	2137		06/10/2022 18:12
13C3 PFBS	N/A	N/A	6.13	6.16	3178		06/10/2022 18:12
13C2 4:2FTS	N/A	N/A	5.56	5.56	495		06/10/2022 18:12
13C5 PFHxA	N/A	N/A	5.85	5.85	1651		06/10/2022 18:12
13C4 PFHpA	N/A	N/A	6.55	6.54	1837		06/10/2022 18:12
13C3 PFHxS	N/A	N/A	7.69	7.66	2089		06/10/2022 18:12
13C2 6:2FTS	N/A	N/A	6.88	6.86	1236		06/10/2022 18:12
13C8 PFOA	N/A	N/A	7.24	7.22	2486		06/10/2022 18:12
13C9 PFNA	N/A	N/A	7.94	7.90	2532		06/10/2022 18:12
13C8 PFOS	N/A	N/A	9.15	9.12	2002		06/10/2022 18:12
13C2 8:2FTS	N/A	N/A	8.24	8.20	7546		06/10/2022 18:12
13C6 PFDA	N/A	N/A	8.64	8.61	1816		06/10/2022 18:12
d3-MeFOSAA	N/A	N/A	8.49	8.46	1500		06/10/2022 18:12
13C8 PFOSA	N/A	N/A	10.93	10.88	2365		06/10/2022 18:12
d5-EtFOSAA	N/A	N/A	8.81	8.77	820		06/10/2022 18:12
13C7 PFUdA	N/A	N/A	9.34	9.31	2579		06/10/2022 18:12
13C2 PFDoA	N/A	N/A	10.04	10.01	1377		06/10/2022 18:12
13C2 PFTeDA	N/A	N/A	11.39	11.36	1565		06/10/2022 18:12
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1401		06/10/2022 18:12
d3-N-MeFOSA	N/A	N/A	12.85	12.79	265	R	06/10/2022 18:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490017	Total Amount Extracted	5.13g
Lab File ID	B220610B_013	Percent Moisture	11.846%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:51	CCal File	B220610B_002
Received	05/20/2022 08:50	Ending CCal File	B220610B_014
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 18:12
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 18:12
HFPO-DA	0.39	0.30	6.15	6.14	ND		06/10/2022 18:12
PFBS	0.50	0.39	6.15	6.15	ND		06/10/2022 18:12
PFHxA	0.00	0.08	0.00	5.84	ND		06/10/2022 18:12
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 18:12
PFPeS	0.52	0.43	6.94	6.89	ND		06/10/2022 18:12
PFHpA	0.33	0.26	6.56	6.50	ND		06/10/2022 18:12
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 18:12
PFHxS	0.34	0.32	7.70	7.65	ND		06/10/2022 18:12
PFOA	0.42	0.37	7.25	7.22	ND		06/10/2022 18:12
6:2 FTS	1.20	0.76	6.88	6.86	ND		06/10/2022 18:12
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 18:12
PFNA	0.09	0.14	7.94	7.91	ND		06/10/2022 18:12
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 18:12
PFOS	0.31	0.34	9.16	9.11	ND		06/10/2022 18:12
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 18:12
PFDA	0.00	0.19	0.00	8.65	ND		06/10/2022 18:12
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 18:12
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 18:12
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 18:12
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 18:12
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 18:12
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 18:12
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 18:12
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 18:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 18:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 18:12
PFTDA	0.00	0.22	0.00	11.36	ND		06/10/2022 18:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB137-1
 Lab Sample ID 10609490018
 Lab File ID B220610B_015
 Matrix Soil
 Collected 05/18/2022 16:11
 Received 05/20/2022 08:50

Extraction Date 06/08/2022 10:30
 Total Amount Extracted 5.04g
 Percent Moisture 11.5294%
 Ical ID 220603A02
 CCal File B220610B_014
 Ending CCal File B220610B_025
 Blank File B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 18:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 18:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 18:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 18:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 18:52
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 18:52
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/10/2022 18:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 18:52
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/10/2022 18:52
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 18:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 18:52
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 18:52
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 18:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 18:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 18:52
PFOS	0.11	0.10	0.10	0.03	1	1763-23-1		06/10/2022 18:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 18:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 18:52
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 18:52
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 18:52
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 18:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 18:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 18:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 18:52
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 18:52
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/10/2022 18:52
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/10/2022 18:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 18:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 18:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB137-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490018	Total Amount Extracted	5.04g
Lab File ID	B220610B_015	Percent Moisture	11.5294%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:11	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	108	50-150		06/10/2022 18:52
13C4 PFOA	1.1	1.2	107	50-150		06/10/2022 18:52
13C2 PFDA	1.1	1.4	121	50-150		06/10/2022 18:52
13C4 PFOS	1.1	1.2	110	50-150		06/10/2022 18:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.00	89	50-150		06/10/2022 18:52
13C5 PFPeA	1.1	1.0	91	50-150		06/10/2022 18:52
13C3 PFBS	1.0	0.93	89	50-150		06/10/2022 18:52
13C2 4:2FTS	1.0	1.2	112	50-150		06/10/2022 18:52
13C5 PFHxA	1.1	1.1	96	50-150		06/10/2022 18:52
13C4 PFHpA	1.1	0.99	88	50-150		06/10/2022 18:52
13C3 PFHxS	1.1	0.96	91	50-150		06/10/2022 18:52
13C2 6:2FTS	1.1	1.0	94	50-150		06/10/2022 18:52
13C8 PFOA	1.1	1.0	91	50-150		06/10/2022 18:52
13C9 PFNA	1.1	1.0	93	50-150		06/10/2022 18:52
13C8 PFOS	1.1	1.2	111	50-150		06/10/2022 18:52
13C2 8:2FTS	1.1	1.2	108	50-150		06/10/2022 18:52
13C6 PFDA	1.1	1.2	107	50-150		06/10/2022 18:52
d3-MeFOSAA	1.1	1.1	95	50-150		06/10/2022 18:52
13C8 PFOSA	1.1	0.80	71	50-150		06/10/2022 18:52
d5-EtFOSAA	1.1	1.00	89	50-150		06/10/2022 18:52
13C7 PFUdA	1.1	1.1	102	50-150		06/10/2022 18:52
13C2 PFDoA	1.1	1.1	97	50-150		06/10/2022 18:52
13C2 PFTeDA	1.1	0.90	81	50-150		06/10/2022 18:52
13C3 HFPO-DA	1.1	1.1	94	50-150		06/10/2022 18:52
d3-N-MeFOSA	1.1	0.064	6	10-150	R	06/10/2022 18:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB137-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490018	Total Amount Extracted	5.04g
Lab File ID	B220610B_015	Percent Moisture	11.5294%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:11	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	1661		06/10/2022 18:52
13C4 PFOA	N/A	N/A	7.24	7.15	2064		06/10/2022 18:52
13C2 PFDA	N/A	N/A	8.64	8.57	2689		06/10/2022 18:52
13C4 PFOS	N/A	N/A	9.15	9.07	1704		06/10/2022 18:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2115		06/10/2022 18:52
13C5 PFPeA	N/A	N/A	5.16	5.15	1963		06/10/2022 18:52
13C3 PFBS	N/A	N/A	6.14	6.16	2333		06/10/2022 18:52
13C2 4:2FTS	N/A	N/A	5.57	5.56	542		06/10/2022 18:52
13C5 PFHxA	N/A	N/A	5.87	5.85	1620		06/10/2022 18:52
13C4 PFHpA	N/A	N/A	6.56	6.54	1935		06/10/2022 18:52
13C3 PFHxS	N/A	N/A	7.69	7.66	1743		06/10/2022 18:52
13C2 6:2FTS	N/A	N/A	6.89	6.86	1007		06/10/2022 18:52
13C8 PFOA	N/A	N/A	7.24	7.22	2700		06/10/2022 18:52
13C9 PFNA	N/A	N/A	7.94	7.90	2181		06/10/2022 18:52
13C8 PFOS	N/A	N/A	9.15	9.12	1597		06/10/2022 18:52
13C2 8:2FTS	N/A	N/A	8.24	8.20	1692		06/10/2022 18:52
13C6 PFDA	N/A	N/A	8.64	8.61	2357		06/10/2022 18:52
d3-MeFOSAA	N/A	N/A	8.49	8.46	43992		06/10/2022 18:52
13C8 PFOSA	N/A	N/A	10.92	10.88	3469		06/10/2022 18:52
d5-EtFOSAA	N/A	N/A	8.81	8.77	923		06/10/2022 18:52
13C7 PFUdA	N/A	N/A	9.34	9.31	3455		06/10/2022 18:52
13C2 PFDoA	N/A	N/A	10.03	10.01	1350		06/10/2022 18:52
13C2 PFTeDA	N/A	N/A	11.38	11.36	1304		06/10/2022 18:52
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1569		06/10/2022 18:52
d3-N-MeFOSA	N/A	N/A	12.85	12.79	435	R	06/10/2022 18:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB137-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490018	Total Amount Extracted	5.04g
Lab File ID	B220610B_015	Percent Moisture	11.5294%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:11	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 18:52
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 18:52
HFPO-DA	0.19	0.26	6.17	6.14	ND		06/10/2022 18:52
PFBS	0.39	0.39	6.14	6.15	ND		06/10/2022 18:52
PFHxA	0.10	0.08	5.87	5.84	ND		06/10/2022 18:52
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 18:52
PFPeS	0.30	0.40	6.94	6.89	ND		06/10/2022 18:52
PFHpA	0.31	0.30	6.57	6.50	ND		06/10/2022 18:52
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 18:52
PFHxS	0.35	0.36	7.69	7.65	ND		06/10/2022 18:52
PFOA	0.30	0.38	7.25	7.22	ND		06/10/2022 18:52
6:2 FTS	1.20	0.76	6.88	6.86	ND		06/10/2022 18:52
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 18:52
PFNA	0.14	0.13	7.95	7.91	ND		06/10/2022 18:52
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 18:52
PFOS	0.39	0.37	9.16	9.11	289		06/10/2022 18:52
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 18:52
PFDA	0.16	0.19	8.65	8.65	ND		06/10/2022 18:52
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 18:52
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 18:52
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 18:52
PFUnDA	0.11	0.13	9.35	9.35	ND		06/10/2022 18:52
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 18:52
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 18:52
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 18:52
PFDOA	0.12	0.15	10.04	10.02	ND		06/10/2022 18:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 18:52
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 18:52
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 18:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB62-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490019	Total Amount Extracted	5.05g
Lab File ID	B220610B_016	Percent Moisture	12.7732%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:28	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 19:12
PFPeA	ND	0.11	0.11	0.03	1	2706-90-3		06/10/2022 19:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 19:12
PFBS	ND	0.10	0.10	0.02	1	375-73-5		06/10/2022 19:12
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 19:12
4:2 FTS	ND	0.11	0.11	0.03	1	757124-72-4		06/10/2022 19:12
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/10/2022 19:12
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 19:12
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/10/2022 19:12
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 19:12
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 19:12
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 19:12
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 19:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 19:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 19:12
PFOS	ND	0.11	0.11	0.03	1	1763-23-1		06/10/2022 19:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 19:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 19:12
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 19:12
9-CI-PF3ON	ND	0.11	0.11	0.01	1	756426-58-1		06/10/2022 19:12
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 19:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 19:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 19:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 19:12
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 19:12
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/10/2022 19:12
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/10/2022 19:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 19:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 19:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB62-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490019	Total Amount Extracted	5.05g
Lab File ID	B220610B_016	Percent Moisture	12.7732%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:28	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	108	50-150		06/10/2022 19:12
13C4 PFOA	1.1	1.2	108	50-150		06/10/2022 19:12
13C2 PFDA	1.1	1.4	124	50-150		06/10/2022 19:12
13C4 PFOS	1.1	1.2	112	50-150		06/10/2022 19:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	89	50-150		06/10/2022 19:12
13C5 PFPeA	1.1	1.0	92	50-150		06/10/2022 19:12
13C3 PFBS	1.1	1.00	95	50-150		06/10/2022 19:12
13C2 4:2FTS	1.1	1.2	110	50-150		06/10/2022 19:12
13C5 PFHxA	1.1	1.1	94	50-150		06/10/2022 19:12
13C4 PFHpA	1.1	1.1	94	50-150		06/10/2022 19:12
13C3 PFHxS	1.1	1.0	94	50-150		06/10/2022 19:12
13C2 6:2FTS	1.1	1.1	100	50-150		06/10/2022 19:12
13C8 PFOA	1.1	1.1	95	50-150		06/10/2022 19:12
13C9 PFNA	1.1	1.0	92	50-150		06/10/2022 19:12
13C8 PFOS	1.1	1.2	114	50-150		06/10/2022 19:12
13C2 8:2FTS	1.1	1.2	108	50-150		06/10/2022 19:12
13C6 PFDA	1.1	1.1	100	50-150		06/10/2022 19:12
d3-MeFOSAA	1.1	1.2	104	50-150		06/10/2022 19:12
13C8 PFOSA	1.1	0.78	69	50-150		06/10/2022 19:12
d5-EtFOSAA	1.1	1.0	92	50-150		06/10/2022 19:12
13C7 PFUdA	1.1	1.2	102	50-150		06/10/2022 19:12
13C2 PFDoA	1.1	1.3	110	50-150		06/10/2022 19:12
13C2 PFTeDA	1.1	1.2	102	50-150		06/10/2022 19:12
13C3 HFPO-DA	1.1	1.1	93	50-150		06/10/2022 19:12
d3-N-MeFOSA	1.1	0.025	2	10-150	R	06/10/2022 19:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB62-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490019	Total Amount Extracted	5.05g
Lab File ID	B220610B_016	Percent Moisture	12.7732%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:28	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1598		06/10/2022 19:12
13C4 PFOA	N/A	N/A	7.24	7.15	2137		06/10/2022 19:12
13C2 PFDA	N/A	N/A	8.65	8.57	2675		06/10/2022 19:12
13C4 PFOS	N/A	N/A	9.15	9.07	1706		06/10/2022 19:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2309		06/10/2022 19:12
13C5 PFPeA	N/A	N/A	5.15	5.15	1771		06/10/2022 19:12
13C3 PFBS	N/A	N/A	6.14	6.16	2152		06/10/2022 19:12
13C2 4:2FTS	N/A	N/A	5.56	5.56	489		06/10/2022 19:12
13C5 PFHxA	N/A	N/A	5.86	5.85	1684		06/10/2022 19:12
13C4 PFHpA	N/A	N/A	6.56	6.54	1522		06/10/2022 19:12
13C3 PFHxS	N/A	N/A	7.69	7.66	2213		06/10/2022 19:12
13C2 6:2FTS	N/A	N/A	6.88	6.86	1298		06/10/2022 19:12
13C8 PFOA	N/A	N/A	7.24	7.22	2449		06/10/2022 19:12
13C9 PFNA	N/A	N/A	7.94	7.90	2132		06/10/2022 19:12
13C8 PFOS	N/A	N/A	9.15	9.12	2063		06/10/2022 19:12
13C2 8:2FTS	N/A	N/A	8.25	8.20	36458		06/10/2022 19:12
13C6 PFDA	N/A	N/A	8.65	8.61	1810		06/10/2022 19:12
d3-MeFOSAA	N/A	N/A	8.50	8.46	4247		06/10/2022 19:12
13C8 PFOSA	N/A	N/A	10.93	10.88	2498		06/10/2022 19:12
d5-EtFOSAA	N/A	N/A	8.81	8.77	1026		06/10/2022 19:12
13C7 PFUdA	N/A	N/A	9.34	9.31	3594		06/10/2022 19:12
13C2 PFDoA	N/A	N/A	10.04	10.01	1494		06/10/2022 19:12
13C2 PFTeDA	N/A	N/A	11.38	11.36	1207		06/10/2022 19:12
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1450		06/10/2022 19:12
d3-N-MeFOSA	N/A	N/A	12.86	12.79	117	R	06/10/2022 19:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB62-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490019	Total Amount Extracted	5.05g
Lab File ID	B220610B_016	Percent Moisture	12.7732%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:28	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 19:12
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 19:12
HFPO-DA	0.32	0.26	6.15	6.14	ND		06/10/2022 19:12
PFBS	0.28	0.39	6.14	6.15	ND		06/10/2022 19:12
PFHxA	0.08	0.08	5.87	5.84	ND		06/10/2022 19:12
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 19:12
PFPeS	0.48	0.40	6.94	6.89	ND		06/10/2022 19:12
PFHpA	0.28	0.30	6.57	6.50	ND		06/10/2022 19:12
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 19:12
PFHxS	0.28	0.36	7.70	7.65	ND		06/10/2022 19:12
PFOA	0.30	0.38	7.25	7.22	ND		06/10/2022 19:12
6:2 FTS	0.47	0.76	6.90	6.86	ND		06/10/2022 19:12
PFHpS	0.58	0.36	8.45	8.41	ND		06/10/2022 19:12
PFNA	0.17	0.13	7.95	7.91	ND		06/10/2022 19:12
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 19:12
PFOS	0.22	0.37	8.89	9.11	ND		06/10/2022 19:12
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 19:12
PFDA	0.00	0.19	0.00	8.65	ND		06/10/2022 19:12
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 19:12
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 19:12
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 19:12
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 19:12
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 19:12
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 19:12
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 19:12
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 19:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 19:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 19:12
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 19:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB135-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490020	Total Amount Extracted	5.16g
Lab File ID	B220610B_017	Percent Moisture	14.0675%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:44	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 19:32
PFPeA	ND	0.11	0.11	0.03	1	2706-90-3		06/10/2022 19:32
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 19:32
PFBS	ND	0.10	0.10	0.02	1	375-73-5		06/10/2022 19:32
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 19:32
4:2 FTS	ND	0.11	0.11	0.03	1	757124-72-4		06/10/2022 19:32
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/10/2022 19:32
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 19:32
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/10/2022 19:32
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 19:32
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 19:32
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 19:32
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 19:32
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 19:32
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 19:32
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 19:32
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 19:32
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 19:32
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 19:32
9-CI-PF3ON	ND	0.11	0.11	0.01	1	756426-58-1		06/10/2022 19:32
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 19:32
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 19:32
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 19:32
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 19:32
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 19:32
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/10/2022 19:32
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/10/2022 19:32
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 19:32
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 19:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB135-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490020	Total Amount Extracted	5.16g
Lab File ID	B220610B_017	Percent Moisture	14.0675%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:44	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	109	50-150		06/10/2022 19:32
13C4 PFOA	1.1	1.2	109	50-150		06/10/2022 19:32
13C2 PFDA	1.1	1.2	107	50-150		06/10/2022 19:32
13C4 PFOS	1.1	1.1	106	50-150		06/10/2022 19:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	89	50-150		06/10/2022 19:32
13C5 PFPeA	1.1	1.0	93	50-150		06/10/2022 19:32
13C3 PFBS	1.0	0.95	90	50-150		06/10/2022 19:32
13C2 4:2FTS	1.1	1.0	99	50-150		06/10/2022 19:32
13C5 PFHxA	1.1	1.1	97	50-150		06/10/2022 19:32
13C4 PFHpA	1.1	1.00	88	50-150		06/10/2022 19:32
13C3 PFHxS	1.1	1.0	96	50-150		06/10/2022 19:32
13C2 6:2FTS	1.1	0.99	93	50-150		06/10/2022 19:32
13C8 PFOA	1.1	1.0	91	50-150		06/10/2022 19:32
13C9 PFNA	1.1	1.0	91	50-150		06/10/2022 19:32
13C8 PFOS	1.1	1.1	102	50-150		06/10/2022 19:32
13C2 8:2FTS	1.1	1.1	102	50-150		06/10/2022 19:32
13C6 PFDA	1.1	1.1	101	50-150		06/10/2022 19:32
d3-MeFOSAA	1.1	1.1	94	50-150		06/10/2022 19:32
13C8 PFOSA	1.1	1.0	91	50-150		06/10/2022 19:32
d5-EtFOSAA	1.1	1.1	97	50-150		06/10/2022 19:32
13C7 PFUdA	1.1	1.1	99	50-150		06/10/2022 19:32
13C2 PFDoA	1.1	1.2	102	50-150		06/10/2022 19:32
13C2 PFTeDA	1.1	1.1	100	50-150		06/10/2022 19:32
13C3 HFPO-DA	1.1	1.0	91	50-150		06/10/2022 19:32
d3-N-MeFOSA	1.1	0.45	40	10-150		06/10/2022 19:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB135-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490020	Total Amount Extracted	5.16g
Lab File ID	B220610B_017	Percent Moisture	14.0675%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:44	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1739		06/10/2022 19:32
13C4 PFOA	N/A	N/A	7.25	7.15	1827		06/10/2022 19:32
13C2 PFDA	N/A	N/A	8.64	8.57	2931		06/10/2022 19:32
13C4 PFOS	N/A	N/A	9.15	9.07	1417		06/10/2022 19:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2590		06/10/2022 19:32
13C5 PFPeA	N/A	N/A	5.16	5.15	2425		06/10/2022 19:32
13C3 PFBS	N/A	N/A	6.13	6.16	1931		06/10/2022 19:32
13C2 4:2FTS	N/A	N/A	5.57	5.56	520		06/10/2022 19:32
13C5 PFHxA	N/A	N/A	5.86	5.85	1835		06/10/2022 19:32
13C4 PFHpA	N/A	N/A	6.56	6.54	1783		06/10/2022 19:32
13C3 PFHxS	N/A	N/A	7.70	7.66	1886		06/10/2022 19:32
13C2 6:2FTS	N/A	N/A	6.89	6.86	1179		06/10/2022 19:32
13C8 PFOA	N/A	N/A	7.25	7.22	1974		06/10/2022 19:32
13C9 PFNA	N/A	N/A	7.95	7.90	2287		06/10/2022 19:32
13C8 PFOS	N/A	N/A	9.15	9.12	2007		06/10/2022 19:32
13C2 8:2FTS	N/A	N/A	8.24	8.20	1997		06/10/2022 19:32
13C6 PFDA	N/A	N/A	8.64	8.61	2169		06/10/2022 19:32
d3-MeFOSAA	N/A	N/A	8.50	8.46	3881		06/10/2022 19:32
13C8 PFOSA	N/A	N/A	10.92	10.88	3114		06/10/2022 19:32
d5-EtFOSAA	N/A	N/A	8.80	8.77	998		06/10/2022 19:32
13C7 PFUdA	N/A	N/A	9.34	9.31	3138		06/10/2022 19:32
13C2 PFDoA	N/A	N/A	10.04	10.01	1289		06/10/2022 19:32
13C2 PFTeDA	N/A	N/A	11.37	11.36	1438		06/10/2022 19:32
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1358		06/10/2022 19:32
d3-N-MeFOSA	N/A	N/A	12.85	12.79	1218		06/10/2022 19:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB135-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490020	Total Amount Extracted	5.16g
Lab File ID	B220610B_017	Percent Moisture	14.0675%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 15:44	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 19:32
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 19:32
HFPO-DA	2.10	0.26	6.16	6.14	ND		06/10/2022 19:32
PFBS	0.26	0.39	6.13	6.15	ND		06/10/2022 19:32
PFHxA	0.09	0.08	5.87	5.84	ND		06/10/2022 19:32
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 19:32
PFPeS	0.30	0.40	6.95	6.89	ND		06/10/2022 19:32
PFHpA	0.28	0.30	6.57	6.50	ND		06/10/2022 19:32
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 19:32
PFHxS	0.32	0.36	7.70	7.65	ND		06/10/2022 19:32
PFOA	0.54	0.38	7.26	7.22	ND		06/10/2022 19:32
6:2 FTS	1.70	0.76	6.90	6.86	ND		06/10/2022 19:32
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 19:32
PFNA	0.11	0.13	7.95	7.91	ND		06/10/2022 19:32
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 19:32
PFOS	0.33	0.37	9.16	9.11	ND		06/10/2022 19:32
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 19:32
PFDA	0.06	0.19	8.66	8.65	ND		06/10/2022 19:32
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 19:32
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 19:32
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 19:32
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 19:32
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 19:32
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 19:32
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 19:32
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 19:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 19:32
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 19:32
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 19:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB138-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490021	Total Amount Extracted	5.01g
Lab File ID	B220610B_018	Percent Moisture	9.397%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:21	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 19:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 19:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 19:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 19:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 19:52
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 19:52
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 19:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 19:52
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 19:52
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 19:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 19:52
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 19:52
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 19:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 19:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 19:52
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 19:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 19:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 19:52
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 19:52
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 19:52
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 19:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 19:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 19:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 19:52
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 19:52
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 19:52
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 19:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 19:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 19:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB138-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490021	Total Amount Extracted	5.01g
Lab File ID	B220610B_018	Percent Moisture	9.397%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:21	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	110	50-150		06/10/2022 19:52
13C4 PFOA	1.1	1.3	114	50-150		06/10/2022 19:52
13C2 PFDA	1.1	1.2	112	50-150		06/10/2022 19:52
13C4 PFOS	1.1	1.3	122	50-150		06/10/2022 19:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	95	50-150		06/10/2022 19:52
13C5 PFPeA	1.1	1.1	96	50-150		06/10/2022 19:52
13C3 PFBS	1.0	0.97	94	50-150		06/10/2022 19:52
13C2 4:2FTS	1.0	1.2	113	50-150		06/10/2022 19:52
13C5 PFHxA	1.1	1.1	101	50-150		06/10/2022 19:52
13C4 PFHpA	1.1	1.0	93	50-150		06/10/2022 19:52
13C3 PFHxS	1.0	1.1	102	50-150		06/10/2022 19:52
13C2 6:2FTS	1.0	1.1	104	50-150		06/10/2022 19:52
13C8 PFOA	1.1	1.1	96	50-150		06/10/2022 19:52
13C9 PFNA	1.1	1.1	98	50-150		06/10/2022 19:52
13C8 PFOS	1.1	1.2	117	50-150		06/10/2022 19:52
13C2 8:2FTS	1.1	1.0	98	50-150		06/10/2022 19:52
13C6 PFDA	1.1	1.1	104	50-150		06/10/2022 19:52
d3-MeFOSAA	1.1	1.1	97	50-150		06/10/2022 19:52
13C8 PFOSA	1.1	1.1	98	50-150		06/10/2022 19:52
d5-EtFOSAA	1.1	1.0	93	50-150		06/10/2022 19:52
13C7 PFUdA	1.1	1.1	100	50-150		06/10/2022 19:52
13C2 PFDoA	1.1	1.2	110	50-150		06/10/2022 19:52
13C2 PFTeDA	1.1	1.1	100	50-150		06/10/2022 19:52
13C3 HFPO-DA	1.1	1.1	100	50-150		06/10/2022 19:52
d3-N-MeFOSA	1.1	0.85	77	10-150		06/10/2022 19:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB138-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490021	Total Amount Extracted	5.01g
Lab File ID	B220610B_018	Percent Moisture	9.397%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:21	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	2084		06/10/2022 19:52
13C4 PFOA	N/A	N/A	7.25	7.15	2187		06/10/2022 19:52
13C2 PFDA	N/A	N/A	8.64	8.57	1785		06/10/2022 19:52
13C4 PFOS	N/A	N/A	9.15	9.07	1892		06/10/2022 19:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	3200		06/10/2022 19:52
13C5 PFPeA	N/A	N/A	5.16	5.15	2208		06/10/2022 19:52
13C3 PFBS	N/A	N/A	6.13	6.16	2573		06/10/2022 19:52
13C2 4:2FTS	N/A	N/A	5.57	5.56	687		06/10/2022 19:52
13C5 PFHxA	N/A	N/A	5.86	5.85	1685		06/10/2022 19:52
13C4 PFHpA	N/A	N/A	6.55	6.54	1498		06/10/2022 19:52
13C3 PFHxS	N/A	N/A	7.69	7.66	2642		06/10/2022 19:52
13C2 6:2FTS	N/A	N/A	6.89	6.86	1562		06/10/2022 19:52
13C8 PFOA	N/A	N/A	7.25	7.22	3079		06/10/2022 19:52
13C9 PFNA	N/A	N/A	7.94	7.90	2497		06/10/2022 19:52
13C8 PFOS	N/A	N/A	9.15	9.12	2365		06/10/2022 19:52
13C2 8:2FTS	N/A	N/A	8.24	8.20	2548		06/10/2022 19:52
13C6 PFDA	N/A	N/A	8.64	8.61	1644		06/10/2022 19:52
d3-MeFOSAA	N/A	N/A	8.49	8.46	2264		06/10/2022 19:52
13C8 PFOSA	N/A	N/A	10.92	10.88	3149		06/10/2022 19:52
d5-EtFOSAA	N/A	N/A	8.80	8.77	848		06/10/2022 19:52
13C7 PFUdA	N/A	N/A	9.34	9.31	2769		06/10/2022 19:52
13C2 PFDoA	N/A	N/A	10.03	10.01	1326		06/10/2022 19:52
13C2 PFTeDA	N/A	N/A	11.37	11.36	1436		06/10/2022 19:52
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1665		06/10/2022 19:52
d3-N-MeFOSA	N/A	N/A	12.86	12.79	1320		06/10/2022 19:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB138-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490021	Total Amount Extracted	5.01g
Lab File ID	B220610B_018	Percent Moisture	9.397%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 16:21	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 19:52
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 19:52
HFPO-DA	0.21	0.26	6.16	6.14	ND		06/10/2022 19:52
PFBS	0.53	0.39	6.13	6.15	ND		06/10/2022 19:52
PFHxA	0.07	0.08	5.87	5.84	ND		06/10/2022 19:52
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 19:52
PFPeS	0.00	0.40	0.00	6.89	ND		06/10/2022 19:52
PFHpA	0.23	0.30	6.56	6.50	ND		06/10/2022 19:52
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 19:52
PFHxS	0.29	0.36	7.70	7.65	ND		06/10/2022 19:52
PFOA	0.39	0.38	7.25	7.22	ND		06/10/2022 19:52
6:2 FTS	0.00	0.76	0.00	6.86	ND		06/10/2022 19:52
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 19:52
PFNA	0.13	0.13	7.95	7.91	ND		06/10/2022 19:52
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 19:52
PFOS	0.37	0.37	9.16	9.11	ND		06/10/2022 19:52
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 19:52
PFDA	0.16	0.19	8.65	8.65	ND		06/10/2022 19:52
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 19:52
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 19:52
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 19:52
PFUnDA	0.17	0.13	9.34	9.35	ND		06/10/2022 19:52
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 19:52
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 19:52
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 19:52
PFDOA	0.16	0.15	10.04	10.02	ND		06/10/2022 19:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 19:52
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 19:52
PFTDA	0.12	0.23	11.38	11.36	ND		06/10/2022 19:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB152-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490023	Total Amount Extracted	5.04g
Lab File ID	B220610B_019	Percent Moisture	11.1874%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:42	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 20:12
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 20:12
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 20:12
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 20:12
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 20:12
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 20:12
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 20:12
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 20:12
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/10/2022 20:12
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 20:12
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 20:12
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/10/2022 20:12
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/10/2022 20:12
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 20:12
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 20:12
PFOS	0.18	0.10	0.10	0.03	1	1763-23-1		06/10/2022 20:12
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 20:12
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 20:12
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 20:12
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 20:12
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 20:12
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 20:12
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 20:12
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 20:12
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 20:12
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/10/2022 20:12
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/10/2022 20:12
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 20:12
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 20:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB152-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490023	Total Amount Extracted	5.04g
Lab File ID	B220610B_019	Percent Moisture	11.1874%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:42	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	115	50-150		06/10/2022 20:12
13C4 PFOA	1.1	1.3	118	50-150		06/10/2022 20:12
13C2 PFDA	1.1	1.4	125	50-150		06/10/2022 20:12
13C4 PFOS	1.1	1.2	115	50-150		06/10/2022 20:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	94	50-150		06/10/2022 20:12
13C5 PFPeA	1.1	1.1	97	50-150		06/10/2022 20:12
13C3 PFBS	1.0	1.1	102	50-150		06/10/2022 20:12
13C2 4:2FTS	1.0	1.3	121	50-150		06/10/2022 20:12
13C5 PFHxA	1.1	1.2	107	50-150		06/10/2022 20:12
13C4 PFHpA	1.1	1.1	98	50-150		06/10/2022 20:12
13C3 PFHxS	1.1	1.1	103	50-150		06/10/2022 20:12
13C2 6:2FTS	1.1	1.2	114	50-150		06/10/2022 20:12
13C8 PFOA	1.1	1.1	98	50-150		06/10/2022 20:12
13C9 PFNA	1.1	1.1	101	50-150		06/10/2022 20:12
13C8 PFOS	1.1	1.2	113	50-150		06/10/2022 20:12
13C2 8:2FTS	1.1	1.3	117	50-150		06/10/2022 20:12
13C6 PFDA	1.1	1.2	111	50-150		06/10/2022 20:12
d3-MeFOSAA	1.1	1.2	111	50-150		06/10/2022 20:12
13C8 PFOSA	1.1	1.1	96	50-150		06/10/2022 20:12
d5-EtFOSAA	1.1	1.1	99	50-150		06/10/2022 20:12
13C7 PFUdA	1.1	1.3	114	50-150		06/10/2022 20:12
13C2 PFDoA	1.1	1.3	121	50-150		06/10/2022 20:12
13C2 PFTeDA	1.1	1.3	120	50-150		06/10/2022 20:12
13C3 HFPO-DA	1.1	1.1	101	50-150		06/10/2022 20:12
d3-N-MeFOSA	1.1	0.51	46	10-150		06/10/2022 20:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB152-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490023	Total Amount Extracted	5.04g
Lab File ID	B220610B_019	Percent Moisture	11.1874%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:42	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	1666		06/10/2022 20:12
13C4 PFOA	N/A	N/A	7.24	7.15	2376		06/10/2022 20:12
13C2 PFDA	N/A	N/A	8.63	8.57	1439		06/10/2022 20:12
13C4 PFOS	N/A	N/A	9.14	9.07	1440		06/10/2022 20:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2342		06/10/2022 20:12
13C5 PFPeA	N/A	N/A	5.17	5.15	1984		06/10/2022 20:12
13C3 PFBS	N/A	N/A	6.14	6.16	2035		06/10/2022 20:12
13C2 4:2FTS	N/A	N/A	5.58	5.56	498		06/10/2022 20:12
13C5 PFHxA	N/A	N/A	5.87	5.85	1439		06/10/2022 20:12
13C4 PFHpA	N/A	N/A	6.56	6.54	1993		06/10/2022 20:12
13C3 PFHxS	N/A	N/A	7.69	7.66	2344		06/10/2022 20:12
13C2 6:2FTS	N/A	N/A	6.89	6.86	869		06/10/2022 20:12
13C8 PFOA	N/A	N/A	7.24	7.22	2349		06/10/2022 20:12
13C9 PFNA	N/A	N/A	7.93	7.90	2563		06/10/2022 20:12
13C8 PFOS	N/A	N/A	9.14	9.12	1697		06/10/2022 20:12
13C2 8:2FTS	N/A	N/A	8.23	8.20	1344		06/10/2022 20:12
13C6 PFDA	N/A	N/A	8.63	8.61	1719		06/10/2022 20:12
d3-MeFOSAA	N/A	N/A	8.49	8.46	3145		06/10/2022 20:12
13C8 PFOSA	N/A	N/A	10.92	10.88	3702		06/10/2022 20:12
d5-EtFOSAA	N/A	N/A	8.80	8.77	980		06/10/2022 20:12
13C7 PFUdA	N/A	N/A	9.33	9.31	3106		06/10/2022 20:12
13C2 PFDoA	N/A	N/A	10.03	10.01	1246		06/10/2022 20:12
13C2 PFTeDA	N/A	N/A	11.38	11.36	1562		06/10/2022 20:12
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1757		06/10/2022 20:12
d3-N-MeFOSA	N/A	N/A	12.85	12.79	923		06/10/2022 20:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB152-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490023	Total Amount Extracted	5.04g
Lab File ID	B220610B_019	Percent Moisture	11.1874%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:42	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 20:12
PFPeA	N/A	N/A	5.18	5.14	ND		06/10/2022 20:12
HFPO-DA	1.00	0.26	6.17	6.14	ND		06/10/2022 20:12
PFBS	0.49	0.39	6.14	6.15	ND		06/10/2022 20:12
PFHxA	0.08	0.08	5.88	5.84	ND		06/10/2022 20:12
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 20:12
PFPeS	0.50	0.40	6.94	6.89	ND		06/10/2022 20:12
PFHpA	0.29	0.30	6.57	6.50	ND		06/10/2022 20:12
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 20:12
PFHxS	0.36	0.36	7.69	7.65	ND		06/10/2022 20:12
PFOA	0.34	0.38	7.25	7.22	ND		06/10/2022 20:12
6:2 FTS	1.00	0.76	6.89	6.86	ND		06/10/2022 20:12
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 20:12
PFNA	0.13	0.13	7.94	7.91	ND		06/10/2022 20:12
PFOSAm	N/A	N/A	10.92	10.89	ND		06/10/2022 20:12
PFOS	0.38	0.37	9.15	9.11	329		06/10/2022 20:12
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 20:12
PFDA	0.08	0.19	8.64	8.65	ND		06/10/2022 20:12
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 20:12
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 20:12
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 20:12
PFUnDA	0.08	0.13	9.33	9.35	ND		06/10/2022 20:12
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 20:12
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 20:12
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 20:12
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 20:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 20:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 20:12
PFTDA	0.18	0.23	11.38	11.36	ND		06/10/2022 20:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB60-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490024	Total Amount Extracted	5.05g
Lab File ID	B220610B_020	Percent Moisture	9.9238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 13:03	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 20:32
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 20:32
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 20:32
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 20:32
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 20:32
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 20:32
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 20:32
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 20:32
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 20:32
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 20:32
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 20:32
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 20:32
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 20:32
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 20:32
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 20:32
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 20:32
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 20:32
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 20:32
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 20:32
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 20:32
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 20:32
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 20:32
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 20:32
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 20:32
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 20:32
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 20:32
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 20:32
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 20:32
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 20:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB60-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490024	Total Amount Extracted	5.05g
Lab File ID	B220610B_020	Percent Moisture	9.9238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 13:03	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	108	50-150		06/10/2022 20:32
13C4 PFOA	1.1	1.1	97	50-150		06/10/2022 20:32
13C2 PFDA	1.1	1.2	111	50-150		06/10/2022 20:32
13C4 PFOS	1.1	1.1	109	50-150		06/10/2022 20:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	91	50-150		06/10/2022 20:32
13C5 PFPeA	1.1	1.0	94	50-150		06/10/2022 20:32
13C3 PFBS	1.0	0.95	93	50-150		06/10/2022 20:32
13C2 4:2FTS	1.0	1.0	98	50-150		06/10/2022 20:32
13C5 PFHxA	1.1	1.1	98	50-150		06/10/2022 20:32
13C4 PFHpA	1.1	0.94	86	50-150		06/10/2022 20:32
13C3 PFHxS	1.0	0.95	91	50-150		06/10/2022 20:32
13C2 6:2FTS	1.0	0.96	92	50-150		06/10/2022 20:32
13C8 PFOA	1.1	1.0	94	50-150		06/10/2022 20:32
13C9 PFNA	1.1	1.0	92	50-150		06/10/2022 20:32
13C8 PFOS	1.1	1.1	106	50-150		06/10/2022 20:32
13C2 8:2FTS	1.1	1.0	99	50-150		06/10/2022 20:32
13C6 PFDA	1.1	1.1	99	50-150		06/10/2022 20:32
d3-MeFOSAA	1.1	1.0	95	50-150		06/10/2022 20:32
13C8 PFOSA	1.1	1.0	91	50-150		06/10/2022 20:32
d5-EtFOSAA	1.1	0.98	90	50-150		06/10/2022 20:32
13C7 PFUdA	1.1	1.0	91	50-150		06/10/2022 20:32
13C2 PFDoA	1.1	1.1	101	50-150		06/10/2022 20:32
13C2 PFTeDA	1.1	1.0	91	50-150		06/10/2022 20:32
13C3 HFPO-DA	1.1	1.0	95	50-150		06/10/2022 20:32
d3-N-MeFOSA	1.1	0.68	62	10-150		06/10/2022 20:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB60-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490024	Total Amount Extracted	5.05g
Lab File ID	B220610B_020	Percent Moisture	9.9238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 13:03	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.82	1936		06/10/2022 20:32
13C4 PFOA	N/A	N/A	7.26	7.15	2549		06/10/2022 20:32
13C2 PFDA	N/A	N/A	8.64	8.57	2038		06/10/2022 20:32
13C4 PFOS	N/A	N/A	9.15	9.07	1868		06/10/2022 20:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2391		06/10/2022 20:32
13C5 PFPeA	N/A	N/A	5.16	5.15	1877		06/10/2022 20:32
13C3 PFBS	N/A	N/A	6.13	6.16	2458		06/10/2022 20:32
13C2 4:2FTS	N/A	N/A	5.56	5.56	566		06/10/2022 20:32
13C5 PFHxA	N/A	N/A	5.85	5.85	1604		06/10/2022 20:32
13C4 PFHpA	N/A	N/A	6.56	6.54	1910		06/10/2022 20:32
13C3 PFHxS	N/A	N/A	7.70	7.66	1897		06/10/2022 20:32
13C2 6:2FTS	N/A	N/A	6.90	6.86	3277		06/10/2022 20:32
13C8 PFOA	N/A	N/A	7.26	7.22	2608		06/10/2022 20:32
13C9 PFNA	N/A	N/A	7.95	7.90	2131		06/10/2022 20:32
13C8 PFOS	N/A	N/A	9.15	9.12	2810		06/10/2022 20:32
13C2 8:2FTS	N/A	N/A	8.25	8.20	115400		06/10/2022 20:32
13C6 PFDA	N/A	N/A	8.64	8.61	1752		06/10/2022 20:32
d3-MeFOSAA	N/A	N/A	8.49	8.46	3932		06/10/2022 20:32
13C8 PFOSA	N/A	N/A	10.92	10.88	3081		06/10/2022 20:32
d5-EtFOSAA	N/A	N/A	8.80	8.77	882		06/10/2022 20:32
13C7 PFUdA	N/A	N/A	9.33	9.31	2188		06/10/2022 20:32
13C2 PFDoA	N/A	N/A	10.03	10.01	1574		06/10/2022 20:32
13C2 PFTeDA	N/A	N/A	11.37	11.36	1115		06/10/2022 20:32
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1908		06/10/2022 20:32
d3-N-MeFOSA	N/A	N/A	12.85	12.79	1232		06/10/2022 20:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB60-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490024	Total Amount Extracted	5.05g
Lab File ID	B220610B_020	Percent Moisture	9.9238%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 13:03	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 20:32
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 20:32
HFPO-DA	0.35	0.26	6.15	6.14	ND		06/10/2022 20:32
PFBS	0.40	0.39	6.15	6.15	ND		06/10/2022 20:32
PFHxA	0.08	0.08	5.86	5.84	ND		06/10/2022 20:32
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 20:32
PFPeS	0.00	0.40	0.00	6.89	ND		06/10/2022 20:32
PFHpA	0.30	0.30	6.57	6.50	ND		06/10/2022 20:32
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 20:32
PFHxS	0.39	0.36	7.71	7.65	ND		06/10/2022 20:32
PFOA	0.35	0.38	7.26	7.22	ND		06/10/2022 20:32
6:2 FTS	0.00	0.76	0.00	6.86	ND		06/10/2022 20:32
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 20:32
PFNA	0.14	0.13	7.96	7.91	ND		06/10/2022 20:32
PFOSAm	N/A	N/A	10.92	10.89	ND		06/10/2022 20:32
PFOS	0.40	0.37	9.16	9.11	ND		06/10/2022 20:32
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 20:32
PFDA	0.18	0.19	8.65	8.65	ND		06/10/2022 20:32
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 20:32
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 20:32
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 20:32
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 20:32
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 20:32
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 20:32
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 20:32
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 20:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 20:32
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 20:32
PFTDA	0.30	0.23	11.37	11.36	ND		06/10/2022 20:32

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB153-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490025	Total Amount Extracted	5.19g
Lab File ID	B220610B_021	Percent Moisture	11.3122%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:35	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 20:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 20:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 20:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 20:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 20:52
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 20:52
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 20:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 20:52
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 20:52
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 20:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 20:52
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 20:52
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 20:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 20:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 20:52
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 20:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 20:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 20:52
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 20:52
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 20:52
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 20:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 20:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 20:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 20:52
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 20:52
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 20:52
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 20:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 20:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 20:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB153-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490025	Total Amount Extracted	5.19g
Lab File ID	B220610B_021	Percent Moisture	11.3122%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:35	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	110	50-150		06/10/2022 20:52
13C4 PFOA	1.1	1.1	103	50-150		06/10/2022 20:52
13C2 PFDA	1.1	1.2	111	50-150		06/10/2022 20:52
13C4 PFOS	1.0	1.1	108	50-150		06/10/2022 20:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.97	89	50-150		06/10/2022 20:52
13C5 PFPeA	1.1	1.0	94	50-150		06/10/2022 20:52
13C3 PFBS	1.0	0.97	96	50-150		06/10/2022 20:52
13C2 4:2FTS	1.0	1.1	111	50-150		06/10/2022 20:52
13C5 PFHxA	1.1	1.1	98	50-150		06/10/2022 20:52
13C4 PFHpA	1.1	1.0	95	50-150		06/10/2022 20:52
13C3 PFHxS	1.0	1.00	97	50-150		06/10/2022 20:52
13C2 6:2FTS	1.0	0.98	95	50-150		06/10/2022 20:52
13C8 PFOA	1.1	1.1	97	50-150		06/10/2022 20:52
13C9 PFNA	1.1	1.0	93	50-150		06/10/2022 20:52
13C8 PFOS	1.0	1.2	113	50-150		06/10/2022 20:52
13C2 8:2FTS	1.0	1.2	111	50-150		06/10/2022 20:52
13C6 PFDA	1.1	1.2	107	50-150		06/10/2022 20:52
d3-MeFOSAA	1.1	1.1	102	50-150		06/10/2022 20:52
13C8 PFOSA	1.1	0.84	78	50-150		06/10/2022 20:52
d5-EtFOSAA	1.1	1.0	92	50-150		06/10/2022 20:52
13C7 PFUdA	1.1	1.1	100	50-150		06/10/2022 20:52
13C2 PFDoA	1.1	1.2	109	50-150		06/10/2022 20:52
13C2 PFTeDA	1.1	1.1	101	50-150		06/10/2022 20:52
13C3 HFPO-DA	1.1	1.1	97	50-150		06/10/2022 20:52
d3-N-MeFOSA	1.1	0.032	3	10-150	R	06/10/2022 20:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB153-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490025	Total Amount Extracted	5.19g
Lab File ID	B220610B_021	Percent Moisture	11.3122%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:35	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1615		06/10/2022 20:52
13C4 PFOA	N/A	N/A	7.24	7.15	2259		06/10/2022 20:52
13C2 PFDA	N/A	N/A	8.64	8.57	2173		06/10/2022 20:52
13C4 PFOS	N/A	N/A	9.14	9.07	2008		06/10/2022 20:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2364		06/10/2022 20:52
13C5 PFPeA	N/A	N/A	5.17	5.15	2325		06/10/2022 20:52
13C3 PFBS	N/A	N/A	6.13	6.16	2143		06/10/2022 20:52
13C2 4:2FTS	N/A	N/A	5.57	5.56	662		06/10/2022 20:52
13C5 PFHxA	N/A	N/A	5.86	5.85	1774		06/10/2022 20:52
13C4 PFHpA	N/A	N/A	6.55	6.54	1561		06/10/2022 20:52
13C3 PFHxS	N/A	N/A	7.69	7.66	2109		06/10/2022 20:52
13C2 6:2FTS	N/A	N/A	6.88	6.86	1495		06/10/2022 20:52
13C8 PFOA	N/A	N/A	7.24	7.22	2303		06/10/2022 20:52
13C9 PFNA	N/A	N/A	7.94	7.90	2777		06/10/2022 20:52
13C8 PFOS	N/A	N/A	9.14	9.12	1942		06/10/2022 20:52
13C2 8:2FTS	N/A	N/A	8.24	8.20	1685		06/10/2022 20:52
13C6 PFDA	N/A	N/A	8.64	8.61	1897		06/10/2022 20:52
d3-MeFOSAA	N/A	N/A	8.49	8.46	1271		06/10/2022 20:52
13C8 PFOSA	N/A	N/A	10.92	10.88	2636		06/10/2022 20:52
d5-EtFOSAA	N/A	N/A	8.80	8.77	763		06/10/2022 20:52
13C7 PFUdA	N/A	N/A	9.33	9.31	2721		06/10/2022 20:52
13C2 PFDoA	N/A	N/A	10.03	10.01	1224		06/10/2022 20:52
13C2 PFTeDA	N/A	N/A	11.38	11.36	1387		06/10/2022 20:52
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1948		06/10/2022 20:52
d3-N-MeFOSA	N/A	N/A	12.86	12.79	248	R	06/10/2022 20:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB153-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490025	Total Amount Extracted	5.19g
Lab File ID	B220610B_021	Percent Moisture	11.3122%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:35	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.33	4.36	ND		06/10/2022 20:52
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 20:52
HFPO-DA	0.41	0.26	6.16	6.14	ND		06/10/2022 20:52
PFBS	0.38	0.39	6.14	6.15	ND		06/10/2022 20:52
PFHxA	0.07	0.08	5.87	5.84	ND		06/10/2022 20:52
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 20:52
PFPeS	0.42	0.40	6.94	6.89	ND		06/10/2022 20:52
PFHpA	0.22	0.30	6.55	6.50	ND		06/10/2022 20:52
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 20:52
PFHxS	0.38	0.36	7.69	7.65	ND		06/10/2022 20:52
PFOA	0.40	0.38	7.25	7.22	ND		06/10/2022 20:52
6:2 FTS	0.00	0.76	0.00	6.86	ND		06/10/2022 20:52
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 20:52
PFNA	0.21	0.13	7.95	7.91	ND		06/10/2022 20:52
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 20:52
PFOS	0.32	0.37	8.88	9.11	ND		06/10/2022 20:52
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 20:52
PFDA	0.00	0.19	0.00	8.65	ND		06/10/2022 20:52
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 20:52
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 20:52
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 20:52
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 20:52
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 20:52
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 20:52
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 20:52
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 20:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 20:52
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 20:52
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 20:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490026	Total Amount Extracted	5.26g
Lab File ID	B220610B_022	Percent Moisture	8.9041%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:59	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.02	1	375-22-4		06/10/2022 21:12
PFPeA	ND	0.10	0.10	0.02	1	2706-90-3		06/10/2022 21:12
HFPO-DA	ND	0.10	0.10	0.03	1	13252-13-6		06/10/2022 21:12
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 21:12
PFHxA	ND	0.10	0.10	0.03	1	307-24-4		06/10/2022 21:12
4:2 FTS	ND	0.09	0.09	0.03	1	757124-72-4		06/10/2022 21:12
PFPeS	ND	0.09	0.09	0.01	1	2706-91-4		06/10/2022 21:12
PFHpA	ND	0.10	0.10	0.02	1	375-85-9		06/10/2022 21:12
DONA	ND	0.09	0.09	0.04	1	919005-14-4		06/10/2022 21:12
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 21:12
PFOA	ND	0.10	0.10	0.02	1	335-67-1		06/10/2022 21:12
6:2 FTS	ND	0.09	0.09	0.03	1	27619-97-2		06/10/2022 21:12
PFHpS	ND	0.09	0.09	0.02	1	375-92-8		06/10/2022 21:12
PFNA	ND	0.10	0.10	0.03	1	375-95-1		06/10/2022 21:12
PFOSAm	ND	0.10	0.10	0.02	1	754-91-6		06/10/2022 21:12
PFOS	ND	0.09	0.09	0.02	1	1763-23-1		06/10/2022 21:12
MeFOSA	ND	0.10	0.10	0.02	1	31506-32-8		06/10/2022 21:12
PFDA	ND	0.10	0.10	0.02	1	335-76-2		06/10/2022 21:12
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 21:12
9-CI-PF3ON	ND	0.09	0.09	0.01	1	756426-58-1		06/10/2022 21:12
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/10/2022 21:12
PFUnDA	ND	0.10	0.10	0.02	1	2058-94-8		06/10/2022 21:12
NMeFOSAA	ND	0.10	0.10	0.02	1	2355-31-9		06/10/2022 21:12
NEtFOSAA	ND	0.10	0.10	0.02	1	2991-50-6		06/10/2022 21:12
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/10/2022 21:12
PFDOA	ND	0.10	0.10	0.02	1	307-55-1		06/10/2022 21:12
11-CI-PF3OUdS	ND	0.09	0.09	0.01	1	763051-92-9		06/10/2022 21:12
PFTTrDA	ND	0.10	0.10	0.02	1	72629-94-8		06/10/2022 21:12
PFTDA	ND	0.10	0.10	0.03	1	376-06-7		06/10/2022 21:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490026	Total Amount Extracted	5.26g
Lab File ID	B220610B_022	Percent Moisture	8.9041%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:59	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	1.2	114	50-150		06/10/2022 21:12
13C4 PFOA	1.0	1.2	111	50-150		06/10/2022 21:12
13C2 PFDA	1.0	1.2	118	50-150		06/10/2022 21:12
13C4 PFOS	1.00	1.1	115	50-150		06/10/2022 21:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	1.0	96	50-150		06/10/2022 21:12
13C5 PFPeA	1.0	1.0	98	50-150		06/10/2022 21:12
13C3 PFBS	0.97	1.0	108	50-150		06/10/2022 21:12
13C2 4:2FTS	0.98	1.1	108	50-150		06/10/2022 21:12
13C5 PFHxA	1.0	1.1	102	50-150		06/10/2022 21:12
13C4 PFHpA	1.0	1.0	99	50-150		06/10/2022 21:12
13C3 PFHxS	0.99	1.0	102	50-150		06/10/2022 21:12
13C2 6:2FTS	0.99	0.96	96	50-150		06/10/2022 21:12
13C8 PFOA	1.0	1.1	103	50-150		06/10/2022 21:12
13C9 PFNA	1.0	1.1	101	50-150		06/10/2022 21:12
13C8 PFOS	1.00	1.2	119	50-150		06/10/2022 21:12
13C2 8:2FTS	1.00	1.1	114	50-150		06/10/2022 21:12
13C6 PFDA	1.0	1.2	117	50-150		06/10/2022 21:12
d3-MeFOSAA	1.0	1.1	107	50-150		06/10/2022 21:12
13C8 PFOSA	1.0	1.0	100	50-150		06/10/2022 21:12
d5-EtFOSAA	1.0	1.1	102	50-150		06/10/2022 21:12
13C7 PFUdA	1.0	1.1	109	50-150		06/10/2022 21:12
13C2 PFDoA	1.0	1.2	113	50-150		06/10/2022 21:12
13C2 PFTeDA	1.0	1.3	120	50-150		06/10/2022 21:12
13C3 HFPO-DA	1.0	1.1	101	50-150		06/10/2022 21:12
d3-N-MeFOSA	1.0	0.57	55	10-150		06/10/2022 21:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490026	Total Amount Extracted	5.26g
Lab File ID	B220610B_022	Percent Moisture	8.9041%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:59	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	2034		06/10/2022 21:12
13C4 PFOA	N/A	N/A	7.25	7.15	2604		06/10/2022 21:12
13C2 PFDA	N/A	N/A	8.64	8.57	2518		06/10/2022 21:12
13C4 PFOS	N/A	N/A	9.14	9.07	1579		06/10/2022 21:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	3021		06/10/2022 21:12
13C5 PFPeA	N/A	N/A	5.17	5.15	2188		06/10/2022 21:12
13C3 PFBS	N/A	N/A	6.14	6.16	2460		06/10/2022 21:12
13C2 4:2FTS	N/A	N/A	5.58	5.56	522		06/10/2022 21:12
13C5 PFHxA	N/A	N/A	5.87	5.85	1693		06/10/2022 21:12
13C4 PFHpA	N/A	N/A	6.57	6.54	1605		06/10/2022 21:12
13C3 PFHxS	N/A	N/A	7.70	7.66	2065		06/10/2022 21:12
13C2 6:2FTS	N/A	N/A	6.90	6.86	901		06/10/2022 21:12
13C8 PFOA	N/A	N/A	7.26	7.22	3138		06/10/2022 21:12
13C9 PFNA	N/A	N/A	7.95	7.90	2464		06/10/2022 21:12
13C8 PFOS	N/A	N/A	9.14	9.12	2713		06/10/2022 21:12
13C2 8:2FTS	N/A	N/A	8.24	8.20	1449		06/10/2022 21:12
13C6 PFDA	N/A	N/A	8.64	8.61	2036		06/10/2022 21:12
d3-MeFOSAA	N/A	N/A	8.50	8.46	1991		06/10/2022 21:12
13C8 PFOSA	N/A	N/A	10.92	10.88	4675		06/10/2022 21:12
d5-EtFOSAA	N/A	N/A	8.81	8.77	987		06/10/2022 21:12
13C7 PFUdA	N/A	N/A	9.33	9.31	2371		06/10/2022 21:12
13C2 PFDoA	N/A	N/A	10.03	10.01	1379		06/10/2022 21:12
13C2 PFTeDA	N/A	N/A	11.37	11.36	1443		06/10/2022 21:12
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1673		06/10/2022 21:12
d3-N-MeFOSA	N/A	N/A	12.85	12.79	1191		06/10/2022 21:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB149-3	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490026	Total Amount Extracted	5.26g
Lab File ID	B220610B_022	Percent Moisture	8.9041%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:59	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 21:12
PFPeA	N/A	N/A	5.18	5.14	ND		06/10/2022 21:12
HFPO-DA	0.38	0.26	6.17	6.14	ND		06/10/2022 21:12
PFBS	0.68	0.39	6.14	6.15	ND		06/10/2022 21:12
PFHxA	0.00	0.08	0.00	5.84	ND		06/10/2022 21:12
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 21:12
PFPeS	0.73	0.40	6.94	6.89	ND		06/10/2022 21:12
PFHpA	0.32	0.30	6.57	6.50	ND		06/10/2022 21:12
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 21:12
PFHxS	0.35	0.36	7.71	7.65	ND		06/10/2022 21:12
PFOA	0.32	0.38	7.26	7.22	ND		06/10/2022 21:12
6:2 FTS	0.77	0.76	6.90	6.86	ND		06/10/2022 21:12
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 21:12
PFNA	0.09	0.13	7.94	7.91	ND		06/10/2022 21:12
PFOSAm	N/A	N/A	10.92	10.89	ND		06/10/2022 21:12
PFOS	0.00	0.37	0.00	9.11	ND		06/10/2022 21:12
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 21:12
PFDA	0.07	0.19	8.65	8.65	ND		06/10/2022 21:12
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 21:12
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 21:12
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 21:12
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 21:12
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 21:12
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 21:12
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 21:12
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 21:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 21:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 21:12
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 21:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB151-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490027	Total Amount Extracted	5.12g
Lab File ID	B220610B_023	Percent Moisture	10.746%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:48	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 21:32
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 21:32
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 21:32
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 21:32
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 21:32
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 21:32
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 21:32
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 21:32
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 21:32
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/10/2022 21:32
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 21:32
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 21:32
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 21:32
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 21:32
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 21:32
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 21:32
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 21:32
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 21:32
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/10/2022 21:32
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 21:32
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/10/2022 21:32
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 21:32
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 21:32
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 21:32
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 21:32
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 21:32
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 21:32
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 21:32
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 21:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB151-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490027	Total Amount Extracted	5.12g
Lab File ID	B220610B_023	Percent Moisture	10.746%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:48	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	108	50-150		06/10/2022 21:32
13C4 PFOA	1.1	1.2	112	50-150		06/10/2022 21:32
13C2 PFDA	1.1	1.2	110	50-150		06/10/2022 21:32
13C4 PFOS	1.0	1.2	110	50-150		06/10/2022 21:32

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	98	50-150		06/10/2022 21:32
13C5 PFPeA	1.1	1.1	100	50-150		06/10/2022 21:32
13C3 PFBS	1.0	1.1	104	50-150		06/10/2022 21:32
13C2 4:2FTS	1.0	1.1	110	50-150		06/10/2022 21:32
13C5 PFHxA	1.1	1.2	109	50-150		06/10/2022 21:32
13C4 PFHpA	1.1	1.1	102	50-150		06/10/2022 21:32
13C3 PFHxS	1.0	1.0	99	50-150		06/10/2022 21:32
13C2 6:2FTS	1.0	1.0	100	50-150		06/10/2022 21:32
13C8 PFOA	1.1	1.2	105	50-150		06/10/2022 21:32
13C9 PFNA	1.1	1.1	100	50-150		06/10/2022 21:32
13C8 PFOS	1.0	1.3	120	50-150		06/10/2022 21:32
13C2 8:2FTS	1.0	1.2	112	50-150		06/10/2022 21:32
13C6 PFDA	1.1	1.2	105	50-150		06/10/2022 21:32
d3-MeFOSAA	1.1	1.0	92	50-150		06/10/2022 21:32
13C8 PFOSA	1.1	1.1	97	50-150		06/10/2022 21:32
d5-EtFOSAA	1.1	1.0	91	50-150		06/10/2022 21:32
13C7 PFUdA	1.1	1.1	102	50-150		06/10/2022 21:32
13C2 PFDoA	1.1	1.2	112	50-150		06/10/2022 21:32
13C2 PFTeDA	1.1	1.1	98	50-150		06/10/2022 21:32
13C3 HFPO-DA	1.1	1.1	102	50-150		06/10/2022 21:32
d3-N-MeFOSA	1.1	0.82	75	10-150		06/10/2022 21:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB151-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490027	Total Amount Extracted	5.12g
Lab File ID	B220610B_023	Percent Moisture	10.746%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:48	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1999		06/10/2022 21:32
13C4 PFOA	N/A	N/A	7.24	7.15	2573		06/10/2022 21:32
13C2 PFDA	N/A	N/A	8.64	8.57	1949		06/10/2022 21:32
13C4 PFOS	N/A	N/A	9.15	9.07	1881		06/10/2022 21:32

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2213		06/10/2022 21:32
13C5 PFPeA	N/A	N/A	5.16	5.15	2289		06/10/2022 21:32
13C3 PFBS	N/A	N/A	6.13	6.16	2055		06/10/2022 21:32
13C2 4:2FTS	N/A	N/A	5.57	5.56	693		06/10/2022 21:32
13C5 PFHxA	N/A	N/A	5.86	5.85	2130		06/10/2022 21:32
13C4 PFHpA	N/A	N/A	6.56	6.54	2036		06/10/2022 21:32
13C3 PFHxS	N/A	N/A	7.69	7.66	1584		06/10/2022 21:32
13C2 6:2FTS	N/A	N/A	6.88	6.86	1222		06/10/2022 21:32
13C8 PFOA	N/A	N/A	7.24	7.22	2672		06/10/2022 21:32
13C9 PFNA	N/A	N/A	7.94	7.90	2280		06/10/2022 21:32
13C8 PFOS	N/A	N/A	9.15	9.12	4025		06/10/2022 21:32
13C2 8:2FTS	N/A	N/A	8.24	8.20	398685		06/10/2022 21:32
13C6 PFDA	N/A	N/A	8.64	8.61	2550		06/10/2022 21:32
d3-MeFOSAA	N/A	N/A	8.49	8.46	1934		06/10/2022 21:32
13C8 PFOSA	N/A	N/A	10.92	10.88	3149		06/10/2022 21:32
d5-EtFOSAA	N/A	N/A	8.81	8.77	935		06/10/2022 21:32
13C7 PFUdA	N/A	N/A	9.34	9.31	3395		06/10/2022 21:32
13C2 PFDoA	N/A	N/A	10.03	10.01	1368		06/10/2022 21:32
13C2 PFTeDA	N/A	N/A	11.38	11.36	1611		06/10/2022 21:32
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1702		06/10/2022 21:32
d3-N-MeFOSA	N/A	N/A	12.85	12.79	919		06/10/2022 21:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB151-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490027	Total Amount Extracted	5.12g
Lab File ID	B220610B_023	Percent Moisture	10.746%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 12:48	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.32	ND		06/10/2022 21:32
PFPeA	N/A	N/A	5.17	5.14	ND		06/10/2022 21:32
HFPO-DA	0.34	0.26	6.17	6.14	ND		06/10/2022 21:32
PFBS	0.88	0.39	6.15	6.15	ND		06/10/2022 21:32
PFHxA	0.09	0.08	5.87	5.84	ND		06/10/2022 21:32
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 21:32
PFPeS	0.00	0.40	0.00	6.89	ND		06/10/2022 21:32
PFHpA	0.26	0.30	6.56	6.50	ND		06/10/2022 21:32
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 21:32
PFHxS	0.00	0.36	0.00	7.65	ND		06/10/2022 21:32
PFOA	0.37	0.38	7.25	7.22	ND		06/10/2022 21:32
6:2 FTS	0.86	0.76	6.88	6.86	ND		06/10/2022 21:32
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 21:32
PFNA	0.13	0.13	7.95	7.91	ND		06/10/2022 21:32
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 21:32
PFOS	0.39	0.37	9.16	9.11	ND		06/10/2022 21:32
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 21:32
PFDA	0.08	0.19	8.65	8.65	ND		06/10/2022 21:32
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 21:32
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 21:32
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 21:32
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 21:32
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 21:32
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 21:32
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 21:32
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 21:32
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 21:32
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 21:32
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 21:32

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB65-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490028	Total Amount Extracted	5.03g
Lab File ID	B220610B_024	Percent Moisture	8.8409%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:00	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/10/2022 21:52
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/10/2022 21:52
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/10/2022 21:52
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/10/2022 21:52
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/10/2022 21:52
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/10/2022 21:52
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/10/2022 21:52
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/10/2022 21:52
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/10/2022 21:52
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 21:52
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/10/2022 21:52
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/10/2022 21:52
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/10/2022 21:52
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/10/2022 21:52
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/10/2022 21:52
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/10/2022 21:52
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/10/2022 21:52
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/10/2022 21:52
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/10/2022 21:52
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/10/2022 21:52
PFNS	ND	0.10	0.10	0.02	1	68259-12-1		06/10/2022 21:52
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/10/2022 21:52
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/10/2022 21:52
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/10/2022 21:52
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/10/2022 21:52
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/10/2022 21:52
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/10/2022 21:52
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/10/2022 21:52
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/10/2022 21:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB65-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490028	Total Amount Extracted	5.03g
Lab File ID	B220610B_024	Percent Moisture	8.8409%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:00	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.3	118	50-150		06/10/2022 21:52
13C4 PFOA	1.1	1.3	117	50-150		06/10/2022 21:52
13C2 PFDA	1.1	1.4	132	50-150		06/10/2022 21:52
13C4 PFOS	1.0	1.3	127	50-150		06/10/2022 21:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	96	50-150		06/10/2022 21:52
13C5 PFPeA	1.1	1.0	95	50-150		06/10/2022 21:52
13C3 PFBS	1.0	1.0	100	50-150		06/10/2022 21:52
13C2 4:2FTS	1.0	1.2	122	50-150		06/10/2022 21:52
13C5 PFHxA	1.1	1.1	104	50-150		06/10/2022 21:52
13C4 PFHpA	1.1	1.0	95	50-150		06/10/2022 21:52
13C3 PFHxS	1.0	1.1	110	50-150		06/10/2022 21:52
13C2 6:2FTS	1.0	1.1	111	50-150		06/10/2022 21:52
13C8 PFOA	1.1	1.2	106	50-150		06/10/2022 21:52
13C9 PFNA	1.1	1.1	99	50-150		06/10/2022 21:52
13C8 PFOS	1.0	1.3	127	50-150		06/10/2022 21:52
13C2 8:2FTS	1.0	1.2	112	50-150		06/10/2022 21:52
13C6 PFDA	1.1	1.2	111	50-150		06/10/2022 21:52
d3-MeFOSAA	1.1	1.1	98	50-150		06/10/2022 21:52
13C8 PFOSA	1.1	0.98	90	50-150		06/10/2022 21:52
d5-EtFOSAA	1.1	1.1	102	50-150		06/10/2022 21:52
13C7 PFUdA	1.1	1.2	108	50-150		06/10/2022 21:52
13C2 PFDoA	1.1	1.3	115	50-150		06/10/2022 21:52
13C2 PFTeDA	1.1	1.3	118	50-150		06/10/2022 21:52
13C3 HFPO-DA	1.1	1.1	97	50-150		06/10/2022 21:52
d3-N-MeFOSA	1.1	0.73	67	10-150		06/10/2022 21:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB65-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490028	Total Amount Extracted	5.03g
Lab File ID	B220610B_024	Percent Moisture	8.8409%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:00	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.82	1400		06/10/2022 21:52
13C4 PFOA	N/A	N/A	7.27	7.15	2627		06/10/2022 21:52
13C2 PFDA	N/A	N/A	8.65	8.57	1975		06/10/2022 21:52
13C4 PFOS	N/A	N/A	9.15	9.07	1186		06/10/2022 21:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.31	4.37	2521		06/10/2022 21:52
13C5 PFPeA	N/A	N/A	5.15	5.15	2155		06/10/2022 21:52
13C3 PFBS	N/A	N/A	6.13	6.16	1499		06/10/2022 21:52
13C2 4:2FTS	N/A	N/A	5.56	5.56	474		06/10/2022 21:52
13C5 PFHxA	N/A	N/A	5.85	5.85	1695		06/10/2022 21:52
13C4 PFHpA	N/A	N/A	6.56	6.54	1492		06/10/2022 21:52
13C3 PFHxS	N/A	N/A	7.71	7.66	1895		06/10/2022 21:52
13C2 6:2FTS	N/A	N/A	6.91	6.86	782		06/10/2022 21:52
13C8 PFOA	N/A	N/A	7.27	7.22	3799		06/10/2022 21:52
13C9 PFNA	N/A	N/A	7.96	7.90	2249		06/10/2022 21:52
13C8 PFOS	N/A	N/A	9.15	9.12	2072		06/10/2022 21:52
13C2 8:2FTS	N/A	N/A	8.25	8.20	1436		06/10/2022 21:52
13C6 PFDA	N/A	N/A	8.65	8.61	1938		06/10/2022 21:52
d3-MeFOSAA	N/A	N/A	8.51	8.46	1372		06/10/2022 21:52
13C8 PFOSA	N/A	N/A	10.92	10.88	2403		06/10/2022 21:52
d5-EtFOSAA	N/A	N/A	8.81	8.77	1012		06/10/2022 21:52
13C7 PFUdA	N/A	N/A	9.34	9.31	3392		06/10/2022 21:52
13C2 PFDoA	N/A	N/A	10.03	10.01	1133		06/10/2022 21:52
13C2 PFTeDA	N/A	N/A	11.37	11.36	1345		06/10/2022 21:52
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1748		06/10/2022 21:52
d3-N-MeFOSA	N/A	N/A	12.86	12.79	1618		06/10/2022 21:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB65-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490028	Total Amount Extracted	5.03g
Lab File ID	B220610B_024	Percent Moisture	8.8409%
Matrix	Soil	Ical ID	220603A02
Collected	05/18/2022 11:00	CCal File	B220610B_014
Received	05/20/2022 08:50	Ending CCal File	B220610B_025
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.31	4.31	ND		06/10/2022 21:52
PFPeA	N/A	N/A	5.16	5.14	ND		06/10/2022 21:52
HFPO-DA	0.25	0.26	6.16	6.14	ND		06/10/2022 21:52
PFBS	0.72	0.39	6.14	6.15	ND		06/10/2022 21:52
PFHxA	0.07	0.08	5.86	5.84	ND		06/10/2022 21:52
4:2 FTS	0.00	0.98	0.00	5.56	ND		06/10/2022 21:52
PFPeS	0.52	0.40	6.96	6.96	ND		06/10/2022 21:52
PFHpA	0.24	0.30	6.57	6.50	ND		06/10/2022 21:52
DONA	0.00	0.59	0.00	6.76	ND		06/10/2022 21:52
PFHxS	0.46	0.36	7.72	7.65	ND		06/10/2022 21:52
PFOA	0.24	0.38	7.28	7.22	ND		06/10/2022 21:52
6:2 FTS	1.60	0.76	6.92	6.86	ND		06/10/2022 21:52
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 21:52
PFNA	0.08	0.13	7.96	7.91	ND		06/10/2022 21:52
PFOSAm	N/A	N/A	10.93	10.89	ND		06/10/2022 21:52
PFOS	0.31	0.37	9.18	9.11	ND		06/10/2022 21:52
MeFOSA	0.00	0.57	0.00	12.81	ND		06/10/2022 21:52
PFDA	0.00	0.19	0.00	8.65	ND		06/10/2022 21:52
8:2 FTS	0.00	0.86	0.00	8.25	ND		06/10/2022 21:52
9-Cl-PF3ON	0.00	0.06	0.00	9.67	ND		06/10/2022 21:52
PFNS	0.00	0.45	0.00	9.86	ND		06/10/2022 21:52
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 21:52
NMeFOSAA	0.00	0.87	0.00	8.55	ND		06/10/2022 21:52
NEtFOSAA	0.00	0.52	0.00	8.77	ND		06/10/2022 21:52
PFDS	0.00	0.35	0.00	10.53	ND		06/10/2022 21:52
PFDOA	0.00	0.15	0.00	10.02	ND		06/10/2022 21:52
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 21:52
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 21:52
PFTDA	0.00	0.23	0.00	11.36	ND		06/10/2022 21:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	EB-518	Extraction Date	06/03/2022 07:24
Lab Sample ID	10609490029	Total Amount Extracted	256mL
Lab File ID	B220606A_043	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	05/18/2022 17:55	CCal File	B220606A_040
Received	05/20/2022 08:50	Ending CCal File	B220606A_045
		Blank File	B220606A_019

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	2.0	2.0	0.43	1	375-22-4		06/06/2022 23:38
PFPeA	ND	2.0	2.0	0.43	1	2706-90-3		06/06/2022 23:38
HFPO-DA	ND	2.0	2.0	0.52	1	13252-13-6		06/06/2022 23:38
PFBS	ND	1.7	1.7	0.46	1	375-73-5		06/06/2022 23:38
PFHxA	ND	2.0	2.0	0.43	1	307-24-4		06/06/2022 23:38
4:2 FTS	ND	1.8	1.8	0.54	1	757124-72-4		06/06/2022 23:38
PFPeS	ND	1.8	1.8	0.46	1	2706-91-4		06/06/2022 23:38
PFHpA	ND	2.0	2.0	0.54	1	375-85-9		06/06/2022 23:38
DONA	ND	1.8	1.8	0.50	1	919005-14-4		06/06/2022 23:38
PFHxS	ND	1.8	1.8	0.50	1	355-46-4		06/06/2022 23:38
PFOA	ND	2.0	2.0	0.57	1	335-67-1		06/06/2022 23:38
6:2 FTS	ND	1.9	1.9	0.63	1	27619-97-2		06/06/2022 23:38
PFHpS	ND	1.9	1.9	0.40	1	375-92-8		06/06/2022 23:38
PFNA	ND	2.0	2.0	0.72	1	375-95-1		06/06/2022 23:38
PFOSAm	ND	2.0	2.0	0.80	1	754-91-6		06/06/2022 23:38
PFOS	ND	1.8	1.8	0.53	1	1763-23-1		06/06/2022 23:38
MeFOSA	ND	2.0	2.0	0.50	1	31506-32-8		06/06/2022 23:38
PFDA	ND	2.0	2.0	0.55	1	335-76-2		06/06/2022 23:38
8:2 FTS	ND	1.9	1.9	0.64	1	39108-34-4		06/06/2022 23:38
9-CI-PF3ON	ND	1.8	1.8	0.30	1	756426-58-1		06/06/2022 23:38
PFNS	ND	1.9	1.9	0.44	1	68259-12-1		06/06/2022 23:38
PFUnDA	ND	2.0	2.0	0.53	1	2058-94-8		06/06/2022 23:38
NMeFOSAA	ND	2.0	2.0	0.42	1	2355-31-9		06/06/2022 23:38
NEtFOSAA	ND	2.0	2.0	0.54	1	2991-50-6		06/06/2022 23:38
PFDS	ND	1.9	1.9	0.44	1	335-77-3		06/06/2022 23:38
PFDOA	ND	2.0	2.0	0.47	1	307-55-1		06/06/2022 23:38
11-CI-PF3OUdS	ND	1.8	1.8	0.43	1	763051-92-9		06/06/2022 23:38
PFTTrDA	ND	2.0	2.0	0.61	1	72629-94-8		06/06/2022 23:38
PFTDA	ND	2.0	2.0	0.46	1	376-06-7		06/06/2022 23:38

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	EB-518	Extraction Date	06/03/2022 07:24
Lab Sample ID	10609490029	Total Amount Extracted	256mL
Lab File ID	B220606A_043	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	05/18/2022 17:55	CCal File	B220606A_040
Received	05/20/2022 08:50	Ending CCal File	B220606A_045
		Blank File	B220606A_019

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	20	18	94	50-150		06/06/2022 23:38
13C4 PFOA	20	20	103	50-150		06/06/2022 23:38
13C2 PFDA	20	9.6	49	50-150	R	06/06/2022 23:38
13C4 PFOS	19	13	69	50-150		06/06/2022 23:38

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	20	19	96	50-150		06/06/2022 23:38
13C5 PFPeA	20	19	100	50-150		06/06/2022 23:38
13C3 PFBS	18	19	104	50-150		06/06/2022 23:38
13C2 4:2FTS	18	48	263	50-150	R	06/06/2022 23:38
13C5 PFHxA	20	20	100	50-150		06/06/2022 23:38
13C4 PFHpA	20	18	93	50-150		06/06/2022 23:38
13C3 PFHxS	18	20	108	50-150		06/06/2022 23:38
13C2 6:2FTS	19	62	333	50-150	R	06/06/2022 23:38
13C8 PFOA	20	21	106	50-150		06/06/2022 23:38
13C9 PFNA	20	23	116	50-150		06/06/2022 23:38
13C8 PFOS	19	13	71	50-150		06/06/2022 23:38
13C2 8:2FTS	19	46	245	50-150	R	06/06/2022 23:38
13C6 PFDA	20	9.6	49	50-150	R	06/06/2022 23:38
d3-MeFOSAA	20	9.1	46	50-150	R	06/06/2022 23:38
13C8 PFOSA	20	17	86	50-150		06/06/2022 23:38
d5-EtFOSAA	20	18	93	50-150		06/06/2022 23:38
13C7 PFUdA	20	17	85	50-150		06/06/2022 23:38
13C2 PFDaA	20	20	102	50-150		06/06/2022 23:38
13C2 PFTeDA	20	20	103	50-150		06/06/2022 23:38
13C3 HFPO-DA	20	17	89	50-150		06/06/2022 23:38
d3-N-MeFOSA	20	0.73	4	10-150	R	06/06/2022 23:38

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	EB-518	Extraction Date	06/03/2022 07:24
Lab Sample ID	10609490029	Total Amount Extracted	256mL
Lab File ID	B220606A_043	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	05/18/2022 17:55	CCal File	B220606A_040
Received	05/20/2022 08:50	Ending CCal File	B220606A_045
		Blank File	B220606A_019

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.82	1447		06/06/2022 23:38
13C4 PFOA	N/A	N/A	7.23	7.15	3578		06/06/2022 23:38
13C2 PFDA	N/A	N/A	8.60	8.57	1409	R	06/06/2022 23:38
13C4 PFOS	N/A	N/A	9.03	9.07	784		06/06/2022 23:38

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.34	4.37	2774		06/06/2022 23:38
13C5 PFPeA	N/A	N/A	5.16	5.15	1677		06/06/2022 23:38
13C3 PFBS	N/A	N/A	6.13	6.16	624		06/06/2022 23:38
13C2 4:2FTS	N/A	N/A	5.58	5.56	225	R	06/06/2022 23:38
13C5 PFHxA	N/A	N/A	5.87	5.85	1838		06/06/2022 23:38
13C4 PFHpA	N/A	N/A	6.54	6.54	1891		06/06/2022 23:38
13C3 PFHxS	N/A	N/A	7.68	7.66	695		06/06/2022 23:38
13C2 6:2FTS	N/A	N/A	6.87	6.86	468	R	06/06/2022 23:38
13C8 PFOA	N/A	N/A	7.23	7.22	3144		06/06/2022 23:38
13C9 PFNA	N/A	N/A	7.93	7.90	3701		06/06/2022 23:38
13C8 PFOS	N/A	N/A	9.04	9.12	903		06/06/2022 23:38
13C2 8:2FTS	N/A	N/A	8.22	8.20	956	R	06/06/2022 23:38
13C6 PFDA	N/A	N/A	8.60	8.61	909	R	06/06/2022 23:38
d3-MeFOSAA	N/A	N/A	8.45	8.46	9374	R	06/06/2022 23:38
13C8 PFOSA	N/A	N/A	10.90	10.88	2447		06/06/2022 23:38
d5-EtFOSAA	N/A	N/A	8.77	8.77	431		06/06/2022 23:38
13C7 PFUdA	N/A	N/A	9.27	9.31	2932		06/06/2022 23:38
13C2 PFDoA	N/A	N/A	9.99	10.01	2199		06/06/2022 23:38
13C2 PFTeDA	N/A	N/A	11.37	11.36	1422		06/06/2022 23:38
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1503		06/06/2022 23:38
d3-N-MeFOSA	N/A	N/A	12.81	12.79	319	R	06/06/2022 23:38

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	EB-518	Extraction Date	06/03/2022 07:24
Lab Sample ID	10609490029	Total Amount Extracted	256mL
Lab File ID	B220606A_043	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	05/18/2022 17:55	CCal File	B220606A_040
Received	05/20/2022 08:50	Ending CCal File	B220606A_045
		Blank File	B220606A_019

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.34	4.36	ND		06/06/2022 23:38
PFPeA	N/A	N/A	5.16	5.14	ND		06/06/2022 23:38
HFPO-DA	0.34	0.28	6.16	6.14	ND		06/06/2022 23:38
PFBS	0.29	0.38	6.13	6.17	ND		06/06/2022 23:38
PFHxA	0.13	0.08	5.88	5.84	ND		06/06/2022 23:38
4:2 FTS	0.00	0.89	0.00	5.56	ND		06/06/2022 23:38
PFPeS	0.00	0.41	6.84	6.89	ND		06/06/2022 23:38
PFHpA	0.35	0.27	6.55	6.50	ND		06/06/2022 23:38
DONA	0.00	0.58	0.00	6.76	ND		06/06/2022 23:38
PFHxS	0.30	0.35	7.68	7.65	ND		06/06/2022 23:38
PFOA	0.33	0.39	7.24	7.22	ND		06/06/2022 23:38
6:2 FTS	0.86	0.98	6.87	6.86	ND		06/06/2022 23:38
PFHpS	0.00	0.36	0.00	8.41	ND		06/06/2022 23:38
PFNA	0.12	0.15	7.94	7.91	ND		06/06/2022 23:38
PFOSAm	N/A	N/A	10.91	10.89	ND		06/06/2022 23:38
PFOS	0.37	0.38	9.03	9.11	ND		06/06/2022 23:38
MeFOSA	0.00	0.56	0.00	12.77	ND		06/06/2022 23:38
PFDA	0.42	0.17	8.62	8.59	ND		06/06/2022 23:38
8:2 FTS	0.84	1.00	8.22	8.21	ND		06/06/2022 23:38
9-Cl-PF3ON	0.00	0.05	0.00	9.64	ND		06/06/2022 23:38
PFNS	0.00	0.47	0.00	9.83	ND		06/06/2022 23:38
PFUnDA	0.00	0.14	0.00	9.32	ND		06/06/2022 23:38
NMeFOSAA	0.00	0.69	0.00	8.55	ND		06/06/2022 23:38
NEtFOSAA	0.00	0.65	0.00	8.77	ND		06/06/2022 23:38
PFDS	0.00	0.37	0.00	10.53	ND		06/06/2022 23:38
PFDOA	0.20	0.16	9.98	10.02	ND		06/06/2022 23:38
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/06/2022 23:38
PFTrDA	0.00	0.16	0.00	10.70	ND		06/06/2022 23:38
PFTDA	0.20	0.23	11.37	11.36	ND		06/06/2022 23:38

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB168-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490031	Total Amount Extracted	5.05g
Lab File ID	B220614A_007	Percent Moisture	11.524%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 09:45	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/14/2022 12:34
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/14/2022 12:34
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/14/2022 12:34
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/14/2022 12:34
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/14/2022 12:34
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/14/2022 12:34
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/14/2022 12:34
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/14/2022 12:34
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/14/2022 12:34
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/14/2022 12:34
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/14/2022 12:34
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/14/2022 12:34
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/14/2022 12:34
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/14/2022 12:34
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/14/2022 12:34
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/14/2022 12:34
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/14/2022 12:34
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/14/2022 12:34
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/14/2022 12:34
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/14/2022 12:34
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/14/2022 12:34
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/14/2022 12:34
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/14/2022 12:34
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/14/2022 12:34
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/14/2022 12:34
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/14/2022 12:34
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/14/2022 12:34
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/14/2022 12:34
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/14/2022 12:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB168-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490031	Total Amount Extracted	5.05g
Lab File ID	B220614A_007	Percent Moisture	11.524%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 09:45	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.2	111	50-150		06/14/2022 12:34
13C4 PFOA	1.1	1.2	107	50-150		06/14/2022 12:34
13C2 PFDA	1.1	1.2	105	50-150		06/14/2022 12:34
13C4 PFOS	1.1	1.2	109	50-150		06/14/2022 12:34

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	99	50-150		06/14/2022 12:34
13C5 PFPeA	1.1	1.1	98	50-150		06/14/2022 12:34
13C3 PFBS	1.0	1.1	104	50-150		06/14/2022 12:34
13C2 4:2FTS	1.0	1.1	109	50-150		06/14/2022 12:34
13C5 PFHxA	1.1	1.1	98	50-150		06/14/2022 12:34
13C4 PFHpA	1.1	1.1	99	50-150		06/14/2022 12:34
13C3 PFHxS	1.1	1.1	104	50-150		06/14/2022 12:34
13C2 6:2FTS	1.1	1.1	100	50-150		06/14/2022 12:34
13C8 PFOA	1.1	1.1	101	50-150		06/14/2022 12:34
13C9 PFNA	1.1	1.1	98	50-150		06/14/2022 12:34
13C8 PFOS	1.1	1.1	102	50-150		06/14/2022 12:34
13C2 8:2FTS	1.1	1.2	108	50-150		06/14/2022 12:34
13C6 PFDA	1.1	1.3	112	50-150		06/14/2022 12:34
d3-MeFOSAA	1.1	1.1	97	50-150		06/14/2022 12:34
13C8 PFOSA	1.1	0.94	84	50-150		06/14/2022 12:34
d5-EtFOSAA	1.1	1.0	92	50-150		06/14/2022 12:34
13C7 PFUdA	1.1	1.1	101	50-150		06/14/2022 12:34
13C2 PFDoA	1.1	1.1	97	50-150		06/14/2022 12:34
13C2 PFTeDA	1.1	1.1	97	50-150		06/14/2022 12:34
13C3 HFPO-DA	1.1	1.1	97	50-150		06/14/2022 12:34
d3-N-MeFOSA	1.1	0.025	2	10-150	R	06/14/2022 12:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB168-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490031	Total Amount Extracted	5.05g
Lab File ID	B220614A_007	Percent Moisture	11.524%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 09:45	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.73	5.73	1612		06/14/2022 12:34
13C4 PFOA	N/A	N/A	7.05	7.04	1407		06/14/2022 12:34
13C2 PFDA	N/A	N/A	8.40	8.39	1143		06/14/2022 12:34
13C4 PFOS	N/A	N/A	8.88	8.88	1168		06/14/2022 12:34

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.35	4.37	2719		06/14/2022 12:34
13C5 PFPeA	N/A	N/A	5.11	5.15	2204		06/14/2022 12:34
13C3 PFBS	N/A	N/A	5.99	5.99	1953		06/14/2022 12:34
13C2 4:2FTS	N/A	N/A	5.47	5.46	535		06/14/2022 12:34
13C5 PFHxA	N/A	N/A	5.74	5.73	1592		06/14/2022 12:34
13C4 PFHpA	N/A	N/A	6.39	6.38	2202		06/14/2022 12:34
13C3 PFHxS	N/A	N/A	7.47	7.47	1408		06/14/2022 12:34
13C2 6:2FTS	N/A	N/A	6.70	6.70	1483		06/14/2022 12:34
13C8 PFOA	N/A	N/A	7.05	7.04	1482		06/14/2022 12:34
13C9 PFNA	N/A	N/A	7.72	7.71	1901		06/14/2022 12:34
13C8 PFOS	N/A	N/A	8.88	8.88	1675		06/14/2022 12:34
13C2 8:2FTS	N/A	N/A	8.01	8.01	5138		06/14/2022 12:34
13C6 PFDA	N/A	N/A	8.40	8.40	1531		06/14/2022 12:34
d3-MeFOSAA	N/A	N/A	8.26	8.26	1485		06/14/2022 12:34
13C8 PFOSA	N/A	N/A	10.62	10.63	1807		06/14/2022 12:34
d5-EtFOSAA	N/A	N/A	8.57	8.56	941		06/14/2022 12:34
13C7 PFUdA	N/A	N/A	9.08	9.08	1836		06/14/2022 12:34
13C2 PFDoA	N/A	N/A	9.76	9.76	1066		06/14/2022 12:34
13C2 PFTeDA	N/A	N/A	11.08	11.07	1211		06/14/2022 12:34
13C3 HFPO-DA	N/A	N/A	6.01	6.00	1623		06/14/2022 12:34
d3-N-MeFOSA	N/A	N/A	12.55	12.56	183	R	06/14/2022 12:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB168-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490031	Total Amount Extracted	5.05g
Lab File ID	B220614A_007	Percent Moisture	11.524%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 09:45	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.36	4.36	ND		06/14/2022 12:34
PFPeA	N/A	N/A	5.11	5.14	ND		06/14/2022 12:34
HFPO-DA	1.30	0.29	6.02	6.02	ND		06/14/2022 12:34
PFBS	0.40	0.40	6.00	6.00	ND		06/14/2022 12:34
PFHxA	0.08	0.08	5.75	5.74	ND		06/14/2022 12:34
4:2 FTS	0.00	0.91	0.00	5.47	ND		06/14/2022 12:34
PFPeS	0.37	0.43	6.75	6.75	ND		06/14/2022 12:34
PFHpA	0.28	0.28	6.39	6.39	ND		06/14/2022 12:34
DONA	0.00	0.63	0.00	6.63	ND		06/14/2022 12:34
PFHxS	0.38	0.36	7.47	7.47	ND		06/14/2022 12:34
PFOA	0.33	0.39	7.06	7.05	ND		06/14/2022 12:34
6:2 FTS	1.00	0.98	6.70	6.70	ND		06/14/2022 12:34
PFHpS	0.00	0.37	0.00	8.19	ND		06/14/2022 12:34
PFNA	0.11	0.14	7.72	7.72	ND		06/14/2022 12:34
PFOSAm	N/A	N/A	10.64	10.64	ND		06/14/2022 12:34
PFOS	0.22	0.40	8.78	8.88	ND		06/14/2022 12:34
MeFOSA	0.00	0.51	0.00	12.59	ND		06/14/2022 12:34
PFDA	0.19	0.19	8.41	8.41	ND		06/14/2022 12:34
8:2 FTS	0.00	0.88	0.00	8.01	ND		06/14/2022 12:34
9-Cl-PF3ON	0.00	0.06	0.00	9.38	ND		06/14/2022 12:34
PFNS	0.00	0.48	0.00	9.57	ND		06/14/2022 12:34
PFUnDA	0.00	0.14	0.00	9.08	ND		06/14/2022 12:34
NMeFOSAA	0.00	0.92	0.00	8.27	ND		06/14/2022 12:34
NEtFOSAA	0.00	0.64	0.00	8.58	ND		06/14/2022 12:34
PFDS	0.00	0.35	0.00	10.24	ND		06/14/2022 12:34
PFDOA	0.00	0.17	0.00	9.76	ND		06/14/2022 12:34
11-Cl-PF3OUdS	0.00	0.02	0.00	10.72	ND		06/14/2022 12:34
PFTrDA	0.00	0.16	0.00	10.43	ND		06/14/2022 12:34
PFTDA	0.00	0.25	0.00	11.08	ND		06/14/2022 12:34

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB165-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490032	Total Amount Extracted	5.17g
Lab File ID	B220614A_008	Percent Moisture	9.9615%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 10:14	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/14/2022 12:54
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/14/2022 12:54
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/14/2022 12:54
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/14/2022 12:54
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/14/2022 12:54
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/14/2022 12:54
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/14/2022 12:54
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/14/2022 12:54
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/14/2022 12:54
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/14/2022 12:54
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/14/2022 12:54
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/14/2022 12:54
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/14/2022 12:54
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/14/2022 12:54
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/14/2022 12:54
PFOS	0.16	0.09	0.09	0.03	1	1763-23-1		06/14/2022 12:54
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/14/2022 12:54
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/14/2022 12:54
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/14/2022 12:54
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/14/2022 12:54
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/14/2022 12:54
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/14/2022 12:54
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/14/2022 12:54
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/14/2022 12:54
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/14/2022 12:54
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/14/2022 12:54
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/14/2022 12:54
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/14/2022 12:54
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/14/2022 12:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB165-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490032	Total Amount Extracted	5.17g
Lab File ID	B220614A_008	Percent Moisture	9.9615%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 10:14	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.1	106	50-150		06/14/2022 12:54
13C4 PFOA	1.1	1.1	106	50-150		06/14/2022 12:54
13C2 PFDA	1.1	1.2	112	50-150		06/14/2022 12:54
13C4 PFOS	1.0	1.2	113	50-150		06/14/2022 12:54

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	97	50-150		06/14/2022 12:54
13C5 PFPeA	1.1	1.1	99	50-150		06/14/2022 12:54
13C3 PFBS	1.00	1.1	109	50-150		06/14/2022 12:54
13C2 4:2FTS	1.0	1.1	110	50-150		06/14/2022 12:54
13C5 PFHxA	1.1	1.0	93	50-150		06/14/2022 12:54
13C4 PFHpA	1.1	1.1	103	50-150		06/14/2022 12:54
13C3 PFHxS	1.0	1.0	102	50-150		06/14/2022 12:54
13C2 6:2FTS	1.0	1.2	114	50-150		06/14/2022 12:54
13C8 PFOA	1.1	1.1	101	50-150		06/14/2022 12:54
13C9 PFNA	1.1	1.1	102	50-150		06/14/2022 12:54
13C8 PFOS	1.0	1.0	99	50-150		06/14/2022 12:54
13C2 8:2FTS	1.0	1.1	105	50-150		06/14/2022 12:54
13C6 PFDA	1.1	1.1	106	50-150		06/14/2022 12:54
d3-MeFOSAA	1.1	1.1	103	50-150		06/14/2022 12:54
13C8 PFOSA	1.1	1.1	98	50-150		06/14/2022 12:54
d5-EtFOSAA	1.1	0.95	88	50-150		06/14/2022 12:54
13C7 PFUdA	1.1	1.1	103	50-150		06/14/2022 12:54
13C2 PFDoA	1.1	1.1	99	50-150		06/14/2022 12:54
13C2 PFTeDA	1.1	1.1	98	50-150		06/14/2022 12:54
13C3 HFPO-DA	1.1	0.99	92	50-150		06/14/2022 12:54
d3-N-MeFOSA	1.1	0.40	37	10-150		06/14/2022 12:54

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB165-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490032	Total Amount Extracted	5.17g
Lab File ID	B220614A_008	Percent Moisture	9.9615%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 10:14	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.74	5.73	1515		06/14/2022 12:54
13C4 PFOA	N/A	N/A	7.05	7.04	1488		06/14/2022 12:54
13C2 PFDA	N/A	N/A	8.40	8.39	1222		06/14/2022 12:54
13C4 PFOS	N/A	N/A	8.88	8.88	1316		06/14/2022 12:54

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.35	4.37	2765		06/14/2022 12:54
13C5 PFPeA	N/A	N/A	5.11	5.15	2092		06/14/2022 12:54
13C3 PFBS	N/A	N/A	5.99	5.99	1673		06/14/2022 12:54
13C2 4:2FTS	N/A	N/A	5.47	5.46	584		06/14/2022 12:54
13C5 PFHxA	N/A	N/A	5.74	5.73	1177		06/14/2022 12:54
13C4 PFHpA	N/A	N/A	6.39	6.38	1909		06/14/2022 12:54
13C3 PFHxS	N/A	N/A	7.47	7.47	1626		06/14/2022 12:54
13C2 6:2FTS	N/A	N/A	6.70	6.70	1295		06/14/2022 12:54
13C8 PFOA	N/A	N/A	7.04	7.04	1467		06/14/2022 12:54
13C9 PFNA	N/A	N/A	7.72	7.71	1788		06/14/2022 12:54
13C8 PFOS	N/A	N/A	8.88	8.88	1909		06/14/2022 12:54
13C2 8:2FTS	N/A	N/A	8.01	8.01	1399		06/14/2022 12:54
13C6 PFDA	N/A	N/A	8.40	8.40	1182		06/14/2022 12:54
d3-MeFOSAA	N/A	N/A	8.26	8.26	1491		06/14/2022 12:54
13C8 PFOSA	N/A	N/A	10.63	10.63	1823		06/14/2022 12:54
d5-EtFOSAA	N/A	N/A	8.57	8.56	1177		06/14/2022 12:54
13C7 PFUdA	N/A	N/A	9.08	9.08	1563		06/14/2022 12:54
13C2 PFDoA	N/A	N/A	9.76	9.76	1154		06/14/2022 12:54
13C2 PFTeDA	N/A	N/A	11.08	11.07	1146		06/14/2022 12:54
13C3 HFPO-DA	N/A	N/A	6.01	6.00	1343		06/14/2022 12:54
d3-N-MeFOSA	N/A	N/A	12.56	12.56	540		06/14/2022 12:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB165-1	Extraction Date	06/08/2022 10:30
Lab Sample ID	10609490032	Total Amount Extracted	5.17g
Lab File ID	B220614A_008	Percent Moisture	9.9615%
Matrix	Soil	Ical ID	220613A02
Collected	05/18/2022 10:14	CCal File	B220614A_001
Received	05/20/2022 08:50	Ending CCal File	B220614A_013
		Blank File	B220610B_004

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.36	4.36	ND		06/14/2022 12:54
PFPeA	N/A	N/A	5.11	5.14	ND		06/14/2022 12:54
HFPO-DA	1.80	0.29	6.02	6.02	ND		06/14/2022 12:54
PFBS	0.56	0.40	6.00	6.00	ND		06/14/2022 12:54
PFHxA	0.08	0.08	5.75	5.74	ND		06/14/2022 12:54
4:2 FTS	0.00	0.91	0.00	5.47	ND		06/14/2022 12:54
PFPeS	0.56	0.43	6.75	6.75	ND		06/14/2022 12:54
PFHpA	0.32	0.28	6.39	6.39	ND		06/14/2022 12:54
DONA	0.00	0.63	0.00	6.63	ND		06/14/2022 12:54
PFHxS	0.37	0.36	7.47	7.47	ND		06/14/2022 12:54
PFOA	0.31	0.39	7.05	7.05	ND		06/14/2022 12:54
6:2 FTS	1.00	0.98	6.70	6.70	ND		06/14/2022 12:54
PFHpS	0.00	0.37	0.00	8.19	ND		06/14/2022 12:54
PFNA	0.13	0.14	7.72	7.72	ND		06/14/2022 12:54
PFOSAm	N/A	N/A	10.63	10.64	ND		06/14/2022 12:54
PFOS	0.37	0.40	8.89	8.88	182		06/14/2022 12:54
MeFOSA	0.00	0.51	0.00	12.59	ND		06/14/2022 12:54
PFDA	0.26	0.19	8.40	8.41	ND		06/14/2022 12:54
8:2 FTS	0.00	0.88	0.00	8.01	ND		06/14/2022 12:54
9-Cl-PF3ON	0.00	0.06	0.00	9.38	ND		06/14/2022 12:54
PFNS	0.00	0.48	0.00	9.57	ND		06/14/2022 12:54
PFUnDA	0.17	0.14	9.09	9.08	ND		06/14/2022 12:54
NMeFOSAA	0.00	0.92	0.00	8.27	ND		06/14/2022 12:54
NEtFOSAA	0.00	0.64	0.00	8.58	ND		06/14/2022 12:54
PFDS	0.00	0.35	0.00	10.24	ND		06/14/2022 12:54
PFDOA	0.00	0.17	0.00	9.76	ND		06/14/2022 12:54
11-Cl-PF3OUdS	0.00	0.02	0.00	10.72	ND		06/14/2022 12:54
PFTrDA	0.00	0.16	0.00	10.43	ND		06/14/2022 12:54
PFTDA	0.00	0.25	0.00	11.08	ND		06/14/2022 12:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB67-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490033	Total Amount Extracted	5.00g
Lab File ID	Q220616B_008	Percent Moisture	10.6522%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 09:24	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/16/2022 15:37
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/16/2022 15:37
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/16/2022 15:37
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/16/2022 15:37
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/16/2022 15:37
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/16/2022 15:37
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/16/2022 15:37
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/16/2022 15:37
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/16/2022 15:37
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/16/2022 15:37
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/16/2022 15:37
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/16/2022 15:37
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/16/2022 15:37
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/16/2022 15:37
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/16/2022 15:37
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/16/2022 15:37
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/16/2022 15:37
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/16/2022 15:37
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/16/2022 15:37
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/16/2022 15:37
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/16/2022 15:37
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/16/2022 15:37
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/16/2022 15:37
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/16/2022 15:37
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/16/2022 15:37
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/16/2022 15:37
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/16/2022 15:37
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/16/2022 15:37
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/16/2022 15:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB67-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490033	Total Amount Extracted	5.00g
Lab File ID	Q220616B_008	Percent Moisture	10.6522%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 09:24	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.0	91	50-150		06/16/2022 15:37
13C4 PFOA	1.1	1.2	110	50-150		06/16/2022 15:37
13C2 PFDA	1.1	1.1	102	50-150		06/16/2022 15:37
13C4 PFOS	1.1	1.4	127	50-150		06/16/2022 15:37

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.98	87	50-150		06/16/2022 15:37
13C5 PFPeA	1.1	1.0	90	50-150		06/16/2022 15:37
13C3 PFBS	1.0	1.0	97	50-150		06/16/2022 15:37
13C2 4:2FTS	1.0	1.1	102	50-150		06/16/2022 15:37
13C5 PFHxA	1.1	1.1	94	50-150		06/16/2022 15:37
13C4 PFHpA	1.1	1.0	93	50-150		06/16/2022 15:37
13C3 PFHxS	1.1	0.88	83	50-150		06/16/2022 15:37
13C2 6:2FTS	1.1	0.90	85	50-150		06/16/2022 15:37
13C8 PFOA	1.1	0.95	85	50-150		06/16/2022 15:37
13C9 PFNA	1.1	1.0	91	50-150		06/16/2022 15:37
13C8 PFOS	1.1	0.93	87	50-150		06/16/2022 15:37
13C2 8:2FTS	1.1	1.0	94	50-150		06/16/2022 15:37
13C6 PFDA	1.1	0.96	86	50-150		06/16/2022 15:37
d3-MeFOSAA	1.1	0.91	82	50-150		06/16/2022 15:37
13C8 PFOSA	1.1	0.90	80	50-150		06/16/2022 15:37
d5-EtFOSAA	1.1	1.0	91	50-150		06/16/2022 15:37
13C7 PFUdA	1.1	1.1	94	50-150		06/16/2022 15:37
13C2 PFDoA	1.1	0.97	87	50-150		06/16/2022 15:37
13C2 PFTeDA	1.1	1.0	93	50-150		06/16/2022 15:37
13C3 HFPO-DA	1.1	0.86	77	50-150		06/16/2022 15:37
d3-N-MeFOSA	1.1	0.17	16	10-150		06/16/2022 15:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB67-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490033	Total Amount Extracted	5.00g
Lab File ID	Q220616B_008	Percent Moisture	10.6522%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 09:24	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.19	6.16	699		06/16/2022 15:37
13C4 PFOA	N/A	N/A	7.47	7.44	834		06/16/2022 15:37
13C2 PFDA	N/A	N/A	8.78	8.79	569		06/16/2022 15:37
13C4 PFOS	N/A	N/A	9.19	9.21	568		06/16/2022 15:37

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.78	4.75	30		06/16/2022 15:37
13C5 PFPeA	N/A	N/A	5.55	5.53	1419		06/16/2022 15:37
13C3 PFBS	N/A	N/A	6.41	6.39	36		06/16/2022 15:37
13C2 4:2FTS	N/A	N/A	5.92	5.90	70		06/16/2022 15:37
13C5 PFHxA	N/A	N/A	6.19	6.16	643		06/16/2022 15:37
13C4 PFHpA	N/A	N/A	6.83	6.79	927		06/16/2022 15:37
13C3 PFHxS	N/A	N/A	7.85	7.80	771		06/16/2022 15:37
13C2 6:2FTS	N/A	N/A	7.15	7.10	406		06/16/2022 15:37
13C8 PFOA	N/A	N/A	7.48	7.43	781		06/16/2022 15:37
13C9 PFNA	N/A	N/A	8.13	8.08	1102		06/16/2022 15:37
13C8 PFOS	N/A	N/A	9.20	9.16	558		06/16/2022 15:37
13C2 8:2FTS	N/A	N/A	8.42	8.38	966		06/16/2022 15:37
13C6 PFDA	N/A	N/A	8.78	8.75	631		06/16/2022 15:37
d3-MeFOSAA	N/A	N/A	8.69	8.65	695		06/16/2022 15:37
13C8 PFOSA	N/A	N/A	11.23	11.17	492		06/16/2022 15:37
d5-EtFOSAA	N/A	N/A	8.99	8.96	228		06/16/2022 15:37
13C7 PFUdA	N/A	N/A	9.43	9.40	44		06/16/2022 15:37
13C2 PFDaA	N/A	N/A	10.08	10.04	58		06/16/2022 15:37
13C2 PFTeDA	N/A	N/A	11.34	11.29	61		06/16/2022 15:37
13C3 HFPO-DA	N/A	N/A	6.45	6.45	828		06/16/2022 15:37
d3-N-MeFOSA	N/A	N/A	13.14	13.11	263		06/16/2022 15:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB67-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490033	Total Amount Extracted	5.00g
Lab File ID	Q220616B_008	Percent Moisture	10.6522%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 09:24	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.78	4.76	ND		06/16/2022 15:37
PFPeA	N/A	N/A	5.56	5.57	ND		06/16/2022 15:37
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 15:37
PFBS	0.00	0.31	0.00	6.44	ND		06/16/2022 15:37
PFHxA	0.11	0.06	6.19	6.20	ND		06/16/2022 15:37
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 15:37
PFPeS	0.00	0.37	0.00	7.15	ND		06/16/2022 15:37
PFHpA	0.71	0.52	6.84	6.86	ND		06/16/2022 15:37
DONA	0.34	0.37	7.06	7.10	ND		06/16/2022 15:37
PFHxS	0.55	0.31	7.86	7.81	ND		06/16/2022 15:37
PFOA	0.31	0.27	7.48	7.44	ND		06/16/2022 15:37
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 15:37
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 15:37
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 15:37
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 15:37
PFOS	0.23	0.26	9.21	9.17	ND		06/16/2022 15:37
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 15:37
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 15:37
8:2 FTS	2.80	1.50	8.43	8.37	ND		06/16/2022 15:37
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 15:37
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 15:37
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 15:37
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 15:37
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 15:37
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 15:37
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 15:37
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 15:37
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 15:37
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 15:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB57-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490034	Total Amount Extracted	5.18g
Lab File ID	Q220616B_009	Percent Moisture	13.7638%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:34	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/16/2022 15:56
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/16/2022 15:56
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/16/2022 15:56
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/16/2022 15:56
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/16/2022 15:56
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/16/2022 15:56
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/16/2022 15:56
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/16/2022 15:56
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/16/2022 15:56
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/16/2022 15:56
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/16/2022 15:56
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/16/2022 15:56
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/16/2022 15:56
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/16/2022 15:56
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/16/2022 15:56
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/16/2022 15:56
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/16/2022 15:56
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/16/2022 15:56
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/16/2022 15:56
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/16/2022 15:56
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/16/2022 15:56
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/16/2022 15:56
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/16/2022 15:56
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/16/2022 15:56
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/16/2022 15:56
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/16/2022 15:56
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/16/2022 15:56
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/16/2022 15:56
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/16/2022 15:56

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB57-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490034	Total Amount Extracted	5.18g
Lab File ID	Q220616B_009	Percent Moisture	13.7638%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:34	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.0	94	50-150		06/16/2022 15:56
13C4 PFOA	1.1	1.2	107	50-150		06/16/2022 15:56
13C2 PFDA	1.1	1.1	103	50-150		06/16/2022 15:56
13C4 PFOS	1.1	1.2	114	50-150		06/16/2022 15:56

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.95	85	50-150		06/16/2022 15:56
13C5 PFPeA	1.1	1.0	91	50-150		06/16/2022 15:56
13C3 PFBS	1.0	0.85	82	50-150		06/16/2022 15:56
13C2 4:2FTS	1.0	0.98	94	50-150		06/16/2022 15:56
13C5 PFHxA	1.1	1.0	91	50-150		06/16/2022 15:56
13C4 PFHpA	1.1	1.0	92	50-150		06/16/2022 15:56
13C3 PFHxS	1.1	0.87	83	50-150		06/16/2022 15:56
13C2 6:2FTS	1.1	0.78	73	50-150		06/16/2022 15:56
13C8 PFOA	1.1	0.90	80	50-150		06/16/2022 15:56
13C9 PFNA	1.1	0.95	85	50-150		06/16/2022 15:56
13C8 PFOS	1.1	0.84	78	50-150		06/16/2022 15:56
13C2 8:2FTS	1.1	0.87	81	50-150		06/16/2022 15:56
13C6 PFDA	1.1	0.81	73	50-150		06/16/2022 15:56
d3-MeFOSAA	1.1	0.83	74	50-150		06/16/2022 15:56
13C8 PFOSA	1.1	0.79	71	50-150		06/16/2022 15:56
d5-EtFOSAA	1.1	0.88	79	50-150		06/16/2022 15:56
13C7 PFUdA	1.1	1.1	97	50-150		06/16/2022 15:56
13C2 PFDoA	1.1	0.97	87	50-150		06/16/2022 15:56
13C2 PFTeDA	1.1	1.1	97	50-150		06/16/2022 15:56
13C3 HFPO-DA	1.1	0.95	85	50-150		06/16/2022 15:56
d3-N-MeFOSA	1.1	0.0017	0	10-150	R	06/16/2022 15:56

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB57-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490034	Total Amount Extracted	5.18g
Lab File ID	Q220616B_009	Percent Moisture	13.7638%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:34	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.17	6.16	619		06/16/2022 15:56
13C4 PFOA	N/A	N/A	7.46	7.44	1061		06/16/2022 15:56
13C2 PFDA	N/A	N/A	8.76	8.79	567		06/16/2022 15:56
13C4 PFOS	N/A	N/A	9.18	9.21	654		06/16/2022 15:56

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.77	4.75	36		06/16/2022 15:56
13C5 PFPeA	N/A	N/A	5.54	5.53	1024		06/16/2022 15:56
13C3 PFBS	N/A	N/A	6.40	6.39	26		06/16/2022 15:56
13C2 4:2FTS	N/A	N/A	5.91	5.90	75		06/16/2022 15:56
13C5 PFHxA	N/A	N/A	6.18	6.16	655		06/16/2022 15:56
13C4 PFHpA	N/A	N/A	6.81	6.79	792		06/16/2022 15:56
13C3 PFHxS	N/A	N/A	7.83	7.80	914		06/16/2022 15:56
13C2 6:2FTS	N/A	N/A	7.13	7.10	324		06/16/2022 15:56
13C8 PFOA	N/A	N/A	7.46	7.43	826		06/16/2022 15:56
13C9 PFNA	N/A	N/A	8.11	8.08	992		06/16/2022 15:56
13C8 PFOS	N/A	N/A	9.18	9.16	490		06/16/2022 15:56
13C2 8:2FTS	N/A	N/A	8.39	8.38	1594		06/16/2022 15:56
13C6 PFDA	N/A	N/A	8.76	8.75	745		06/16/2022 15:56
d3-MeFOSAA	N/A	N/A	8.67	8.65	718		06/16/2022 15:56
13C8 PFOSA	N/A	N/A	11.21	11.17	561		06/16/2022 15:56
d5-EtFOSAA	N/A	N/A	8.97	8.96	252		06/16/2022 15:56
13C7 PFUdA	N/A	N/A	9.42	9.40	30		06/16/2022 15:56
13C2 PFDoA	N/A	N/A	10.07	10.04	53		06/16/2022 15:56
13C2 PFTeDA	N/A	N/A	11.33	11.29	37		06/16/2022 15:56
13C3 HFPO-DA	N/A	N/A	6.44	6.45	683		06/16/2022 15:56
d3-N-MeFOSA	N/A	N/A	13.09	13.11	41	R	06/16/2022 15:56

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB57-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490034	Total Amount Extracted	5.18g
Lab File ID	Q220616B_009	Percent Moisture	13.7638%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:34	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.78	4.76	ND		06/16/2022 15:56
PFPeA	N/A	N/A	5.54	5.57	ND		06/16/2022 15:56
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 15:56
PFBS	0.00	0.31	0.00	6.44	ND		06/16/2022 15:56
PFHxA	0.00	0.06	0.00	6.20	ND		06/16/2022 15:56
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 15:56
PFPeS	0.00	0.37	0.00	7.15	ND		06/16/2022 15:56
PFHpA	0.00	0.52	0.00	6.86	ND		06/16/2022 15:56
DONA	0.41	0.37	7.05	7.10	ND		06/16/2022 15:56
PFHxS	0.00	0.31	0.00	7.81	ND		06/16/2022 15:56
PFOA	0.24	0.27	7.47	7.44	ND		06/16/2022 15:56
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 15:56
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 15:56
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 15:56
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 15:56
PFOS	0.20	0.26	9.20	9.17	ND		06/16/2022 15:56
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 15:56
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 15:56
8:2 FTS	0.00	1.50	0.00	8.37	ND		06/16/2022 15:56
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 15:56
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 15:56
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 15:56
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 15:56
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 15:56
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 15:56
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 15:56
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 15:56
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 15:56
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 15:56

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB56-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490035	Total Amount Extracted	5.12g
Lab File ID	Q220616B_010	Percent Moisture	11.6848%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:45	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/16/2022 16:14
PFPeA	0.15	0.11	0.11	0.02	1	2706-90-3		06/16/2022 16:14
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/16/2022 16:14
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/16/2022 16:14
PFHxA	0.21	0.11	0.11	0.03	1	307-24-4		06/16/2022 16:14
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/16/2022 16:14
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/16/2022 16:14
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/16/2022 16:14
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/16/2022 16:14
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/16/2022 16:14
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/16/2022 16:14
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/16/2022 16:14
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/16/2022 16:14
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/16/2022 16:14
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/16/2022 16:14
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/16/2022 16:14
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/16/2022 16:14
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/16/2022 16:14
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/16/2022 16:14
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/16/2022 16:14
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/16/2022 16:14
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/16/2022 16:14
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/16/2022 16:14
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/16/2022 16:14
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/16/2022 16:14
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/16/2022 16:14
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/16/2022 16:14
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/16/2022 16:14
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/16/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB56-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490035	Total Amount Extracted	5.12g
Lab File ID	Q220616B_010	Percent Moisture	11.6848%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:45	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.95	86	50-150		06/16/2022 16:14
13C4 PFOA	1.1	1.1	103	50-150		06/16/2022 16:14
13C2 PFDA	1.1	1.0	94	50-150		06/16/2022 16:14
13C4 PFOS	1.1	1.2	114	50-150		06/16/2022 16:14

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.92	83	50-150		06/16/2022 16:14
13C5 PFPeA	1.1	0.90	81	50-150		06/16/2022 16:14
13C3 PFBS	1.0	0.94	92	50-150		06/16/2022 16:14
13C2 4:2FTS	1.0	0.95	91	50-150		06/16/2022 16:14
13C5 PFHxA	1.1	0.94	85	50-150		06/16/2022 16:14
13C4 PFHpA	1.1	0.95	86	50-150		06/16/2022 16:14
13C3 PFHxS	1.0	0.80	76	50-150		06/16/2022 16:14
13C2 6:2FTS	1.1	0.79	75	50-150		06/16/2022 16:14
13C8 PFOA	1.1	0.98	89	50-150		06/16/2022 16:14
13C9 PFNA	1.1	0.89	81	50-150		06/16/2022 16:14
13C8 PFOS	1.1	0.91	86	50-150		06/16/2022 16:14
13C2 8:2FTS	1.1	0.84	79	50-150		06/16/2022 16:14
13C6 PFDA	1.1	0.85	76	50-150		06/16/2022 16:14
d3-MeFOSAA	1.1	0.87	79	50-150		06/16/2022 16:14
13C8 PFOSA	1.1	0.65	59	50-150		06/16/2022 16:14
d5-EtFOSAA	1.1	0.89	80	50-150		06/16/2022 16:14
13C7 PFUdA	1.1	0.93	84	50-150		06/16/2022 16:14
13C2 PFDoA	1.1	0.94	85	50-150		06/16/2022 16:14
13C2 PFTeDA	1.1	0.96	87	50-150		06/16/2022 16:14
13C3 HFPO-DA	1.1	0.78	70	50-150		06/16/2022 16:14
d3-N-MeFOSA	1.1	0.0053	0	10-150	R	06/16/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB56-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490035	Total Amount Extracted	5.12g
Lab File ID	Q220616B_010	Percent Moisture	11.6848%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:45	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.18	6.16	1026		06/16/2022 16:14
13C4 PFOA	N/A	N/A	7.46	7.44	803		06/16/2022 16:14
13C2 PFDA	N/A	N/A	8.77	8.79	553		06/16/2022 16:14
13C4 PFOS	N/A	N/A	9.18	9.21	748		06/16/2022 16:14

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.77	4.75	28		06/16/2022 16:14
13C5 PFPeA	N/A	N/A	5.54	5.53	1042		06/16/2022 16:14
13C3 PFBS	N/A	N/A	6.40	6.39	40		06/16/2022 16:14
13C2 4:2FTS	N/A	N/A	5.91	5.90	127		06/16/2022 16:14
13C5 PFHxA	N/A	N/A	6.18	6.16	814		06/16/2022 16:14
13C4 PFHpA	N/A	N/A	6.82	6.79	890		06/16/2022 16:14
13C3 PFHxS	N/A	N/A	7.83	7.80	780		06/16/2022 16:14
13C2 6:2FTS	N/A	N/A	7.14	7.10	484		06/16/2022 16:14
13C8 PFOA	N/A	N/A	7.46	7.43	757		06/16/2022 16:14
13C9 PFNA	N/A	N/A	8.11	8.08	774		06/16/2022 16:14
13C8 PFOS	N/A	N/A	9.19	9.16	468		06/16/2022 16:14
13C2 8:2FTS	N/A	N/A	8.40	8.38	439		06/16/2022 16:14
13C6 PFDA	N/A	N/A	8.77	8.75	703		06/16/2022 16:14
d3-MeFOSAA	N/A	N/A	8.67	8.65	629		06/16/2022 16:14
13C8 PFOSA	N/A	N/A	11.22	11.17	703		06/16/2022 16:14
d5-EtFOSAA	N/A	N/A	8.98	8.96	261		06/16/2022 16:14
13C7 PFUdA	N/A	N/A	9.42	9.40	52		06/16/2022 16:14
13C2 PFDaA	N/A	N/A	10.07	10.04	59		06/16/2022 16:14
13C2 PFTeDA	N/A	N/A	11.33	11.29	55		06/16/2022 16:14
13C3 HFPO-DA	N/A	N/A	6.44	6.45	571		06/16/2022 16:14
d3-N-MeFOSA	N/A	N/A	13.12	13.11	170	R	06/16/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB56-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490035	Total Amount Extracted	5.12g
Lab File ID	Q220616B_010	Percent Moisture	11.6848%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:45	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.77	4.76	ND		06/16/2022 16:14
PFPeA	N/A	N/A	5.55	5.57	68		06/16/2022 16:14
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 16:14
PFBS	0.37	0.31	6.41	6.44	ND		06/16/2022 16:14
PFHxA	0.10	0.06	6.19	6.20	111	I	06/16/2022 16:14
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 16:14
PFPeS	0.33	0.37	7.15	7.15	ND		06/16/2022 16:14
PFHpA	0.41	0.52	6.82	6.86	ND		06/16/2022 16:14
DONA	0.59	0.37	7.07	7.10	ND		06/16/2022 16:14
PFHxS	0.33	0.31	7.84	7.81	ND		06/16/2022 16:14
PFOA	0.53	0.27	7.47	7.44	ND		06/16/2022 16:14
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 16:14
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 16:14
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 16:14
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 16:14
PFOS	0.00	0.26	0.00	9.17	ND		06/16/2022 16:14
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 16:14
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 16:14
8:2 FTS	0.00	1.50	0.00	8.37	ND		06/16/2022 16:14
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 16:14
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 16:14
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 16:14
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 16:14
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 16:14
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 16:14
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 16:14
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 16:14
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 16:14
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 16:14

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB54-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490036	Total Amount Extracted	5.04g
Lab File ID	Q220616B_011	Percent Moisture	5.9782%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:16	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/16/2022 16:33
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/16/2022 16:33
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/16/2022 16:33
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/16/2022 16:33
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/16/2022 16:33
4:2 FTS	ND	0.09	0.09	0.03	1	757124-72-4		06/16/2022 16:33
PFPeS	ND	0.09	0.09	0.02	1	2706-91-4		06/16/2022 16:33
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/16/2022 16:33
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/16/2022 16:33
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/16/2022 16:33
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/16/2022 16:33
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/16/2022 16:33
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/16/2022 16:33
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/16/2022 16:33
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/16/2022 16:33
PFOS	ND	0.09	0.09	0.02	1	1763-23-1		06/16/2022 16:33
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/16/2022 16:33
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/16/2022 16:33
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/16/2022 16:33
9-CI-PF3ON	ND	0.09	0.09	0.01	1	756426-58-1		06/16/2022 16:33
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/16/2022 16:33
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/16/2022 16:33
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/16/2022 16:33
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/16/2022 16:33
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/16/2022 16:33
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/16/2022 16:33
11-CI-PF3OUdS	ND	0.09	0.09	0.01	1	763051-92-9		06/16/2022 16:33
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/16/2022 16:33
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/16/2022 16:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB54-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490036	Total Amount Extracted	5.04g
Lab File ID	Q220616B_011	Percent Moisture	5.9782%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:16	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.80	76	50-150		06/16/2022 16:33
13C4 PFOA	1.1	0.98	93	50-150		06/16/2022 16:33
13C2 PFDA	1.1	0.96	91	50-150		06/16/2022 16:33
13C4 PFOS	1.0	1.0	103	50-150		06/16/2022 16:33

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.90	85	50-150		06/16/2022 16:33
13C5 PFPeA	1.1	0.91	86	50-150		06/16/2022 16:33
13C3 PFBS	0.98	0.84	86	50-150		06/16/2022 16:33
13C2 4:2FTS	0.99	0.98	100	50-150		06/16/2022 16:33
13C5 PFHxA	1.1	0.97	92	50-150		06/16/2022 16:33
13C4 PFHpA	1.1	0.95	90	50-150		06/16/2022 16:33
13C3 PFHxS	1.00	0.79	79	50-150		06/16/2022 16:33
13C2 6:2FTS	1.0	0.77	77	50-150		06/16/2022 16:33
13C8 PFOA	1.1	0.90	86	50-150		06/16/2022 16:33
13C9 PFNA	1.1	0.87	82	50-150		06/16/2022 16:33
13C8 PFOS	1.0	0.94	94	50-150		06/16/2022 16:33
13C2 8:2FTS	1.0	0.81	80	50-150		06/16/2022 16:33
13C6 PFDA	1.1	0.88	84	50-150		06/16/2022 16:33
d3-MeFOSAA	1.1	0.78	74	50-150		06/16/2022 16:33
13C8 PFOSA	1.1	0.85	81	50-150		06/16/2022 16:33
d5-EtFOSAA	1.1	0.94	89	50-150		06/16/2022 16:33
13C7 PFUdA	1.1	0.98	93	50-150		06/16/2022 16:33
13C2 PFDoA	1.1	0.90	85	50-150		06/16/2022 16:33
13C2 PFTeDA	1.1	0.98	93	50-150		06/16/2022 16:33
13C3 HFPO-DA	1.1	0.83	79	50-150		06/16/2022 16:33
d3-N-MeFOSA	1.1	0.019	2	10-150	R	06/16/2022 16:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB54-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490036	Total Amount Extracted	5.04g
Lab File ID	Q220616B_011	Percent Moisture	5.9782%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:16	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	480		06/16/2022 16:33
13C4 PFOA	N/A	N/A	7.45	7.44	926		06/16/2022 16:33
13C2 PFDA	N/A	N/A	8.75	8.79	506		06/16/2022 16:33
13C4 PFOS	N/A	N/A	9.18	9.21	456		06/16/2022 16:33

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.76	4.75	34		06/16/2022 16:33
13C5 PFPeA	N/A	N/A	5.52	5.53	1136		06/16/2022 16:33
13C3 PFBS	N/A	N/A	6.39	6.39	36		06/16/2022 16:33
13C2 4:2FTS	N/A	N/A	5.90	5.90	89		06/16/2022 16:33
13C5 PFHxA	N/A	N/A	6.16	6.16	720		06/16/2022 16:33
13C4 PFHpA	N/A	N/A	6.81	6.79	733		06/16/2022 16:33
13C3 PFHxS	N/A	N/A	7.82	7.80	858		06/16/2022 16:33
13C2 6:2FTS	N/A	N/A	7.12	7.10	469		06/16/2022 16:33
13C8 PFOA	N/A	N/A	7.45	7.43	847		06/16/2022 16:33
13C9 PFNA	N/A	N/A	8.10	8.08	906		06/16/2022 16:33
13C8 PFOS	N/A	N/A	9.18	9.16	689		06/16/2022 16:33
13C2 8:2FTS	N/A	N/A	8.39	8.38	899		06/16/2022 16:33
13C6 PFDA	N/A	N/A	8.76	8.75	602		06/16/2022 16:33
d3-MeFOSAA	N/A	N/A	8.67	8.65	733		06/16/2022 16:33
13C8 PFOSA	N/A	N/A	11.20	11.17	653		06/16/2022 16:33
d5-EtFOSAA	N/A	N/A	8.97	8.96	273		06/16/2022 16:33
13C7 PFUdA	N/A	N/A	9.41	9.40	45		06/16/2022 16:33
13C2 PFDoA	N/A	N/A	10.06	10.04	42		06/16/2022 16:33
13C2 PFTeDA	N/A	N/A	11.31	11.29	60		06/16/2022 16:33
13C3 HFPO-DA	N/A	N/A	6.43	6.45	762		06/16/2022 16:33
d3-N-MeFOSA	N/A	N/A	13.12	13.11	104	R	06/16/2022 16:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB54-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490036	Total Amount Extracted	5.04g
Lab File ID	Q220616B_011	Percent Moisture	5.9782%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:16	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.76	4.76	ND		06/16/2022 16:33
PFPeA	N/A	N/A	5.53	5.57	ND		06/16/2022 16:33
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 16:33
PFBS	0.00	0.31	0.00	6.44	ND		06/16/2022 16:33
PFHxA	0.08	0.06	6.17	6.20	ND		06/16/2022 16:33
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 16:33
PFPeS	0.00	0.37	0.00	7.15	ND		06/16/2022 16:33
PFHpA	0.45	0.52	6.81	6.86	ND		06/16/2022 16:33
DONA	0.00	0.37	0.00	7.10	ND		06/16/2022 16:33
PFHxS	0.49	0.31	7.84	7.81	ND		06/16/2022 16:33
PFOA	0.36	0.27	7.46	7.44	ND		06/16/2022 16:33
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 16:33
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 16:33
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 16:33
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 16:33
PFOS	0.19	0.26	9.19	9.17	ND		06/16/2022 16:33
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 16:33
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 16:33
8:2 FTS	0.00	1.50	0.00	8.37	ND		06/16/2022 16:33
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 16:33
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 16:33
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 16:33
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 16:33
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 16:33
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 16:33
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 16:33
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 16:33
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 16:33
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 16:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB58-3	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490037	Total Amount Extracted	5.07g
Lab File ID	Q220616B_012	Percent Moisture	14.1235%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:29	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/16/2022 16:51
PFPeA	ND	0.11	0.11	0.03	1	2706-90-3		06/16/2022 16:51
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/16/2022 16:51
PFBS	ND	0.10	0.10	0.02	1	375-73-5		06/16/2022 16:51
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/16/2022 16:51
4:2 FTS	ND	0.11	0.11	0.03	1	757124-72-4		06/16/2022 16:51
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/16/2022 16:51
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/16/2022 16:51
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/16/2022 16:51
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/16/2022 16:51
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/16/2022 16:51
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/16/2022 16:51
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/16/2022 16:51
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/16/2022 16:51
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/16/2022 16:51
PFOS	0.19	0.11	0.11	0.03	1	1763-23-1		06/16/2022 16:51
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/16/2022 16:51
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/16/2022 16:51
8:2 FTS	ND	0.11	0.11	0.03	1	39108-34-4		06/16/2022 16:51
9-CI-PF3ON	ND	0.11	0.11	0.01	1	756426-58-1		06/16/2022 16:51
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/16/2022 16:51
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/16/2022 16:51
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/16/2022 16:51
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/16/2022 16:51
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/16/2022 16:51
PFDOA	ND	0.11	0.11	0.03	1	307-55-1		06/16/2022 16:51
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/16/2022 16:51
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/16/2022 16:51
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/16/2022 16:51

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB58-3	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490037	Total Amount Extracted	5.07g
Lab File ID	Q220616B_012	Percent Moisture	14.1235%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:29	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	1.1	99	50-150		06/16/2022 16:51
13C4 PFOA	1.1	1.1	95	50-150		06/16/2022 16:51
13C2 PFDA	1.1	1.5	135	50-150		06/16/2022 16:51
13C4 PFOS	1.1	1.3	119	50-150		06/16/2022 16:51

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.1	97	50-150		06/16/2022 16:51
13C5 PFPeA	1.1	1.1	94	50-150		06/16/2022 16:51
13C3 PFBS	1.1	1.2	113	50-150		06/16/2022 16:51
13C2 4:2FTS	1.1	1.1	101	50-150		06/16/2022 16:51
13C5 PFHxA	1.1	1.1	97	50-150		06/16/2022 16:51
13C4 PFHpA	1.1	1.2	102	50-150		06/16/2022 16:51
13C3 PFHxS	1.1	0.99	91	50-150		06/16/2022 16:51
13C2 6:2FTS	1.1	1.1	100	50-150		06/16/2022 16:51
13C8 PFOA	1.1	1.2	109	50-150		06/16/2022 16:51
13C9 PFNA	1.1	1.1	100	50-150		06/16/2022 16:51
13C8 PFOS	1.1	0.99	90	50-150		06/16/2022 16:51
13C2 8:2FTS	1.1	1.1	102	50-150		06/16/2022 16:51
13C6 PFDA	1.1	1.1	93	50-150		06/16/2022 16:51
d3-MeFOSAA	1.1	1.0	90	50-150		06/16/2022 16:51
13C8 PFOSA	1.1	0.057	5	50-150	R	06/16/2022 16:51
d5-EtFOSAA	1.1	1.1	97	50-150		06/16/2022 16:51
13C7 PFUdA	1.1	1.3	113	50-150		06/16/2022 16:51
13C2 PFDoA	1.1	1.2	104	50-150		06/16/2022 16:51
13C2 PFTeDA	1.1	1.3	111	50-150		06/16/2022 16:51
13C3 HFPO-DA	1.1	0.92	80	50-150		06/16/2022 16:51
d3-N-MeFOSA	1.1	0.0020	0	10-150	R	06/16/2022 16:51

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB58-3	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490037	Total Amount Extracted	5.07g
Lab File ID	Q220616B_012	Percent Moisture	14.1235%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:29	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.18	6.16	630		06/16/2022 16:51
13C4 PFOA	N/A	N/A	7.44	7.44	777		06/16/2022 16:51
13C2 PFDA	N/A	N/A	8.75	8.79	731		06/16/2022 16:51
13C4 PFOS	N/A	N/A	9.17	9.21	510		06/16/2022 16:51

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.76	4.75	31		06/16/2022 16:51
13C5 PFPeA	N/A	N/A	5.54	5.53	1053		06/16/2022 16:51
13C3 PFBS	N/A	N/A	6.40	6.39	50		06/16/2022 16:51
13C2 4:2FTS	N/A	N/A	5.91	5.90	114		06/16/2022 16:51
13C5 PFHxA	N/A	N/A	6.18	6.16	690		06/16/2022 16:51
13C4 PFHpA	N/A	N/A	6.81	6.79	772		06/16/2022 16:51
13C3 PFHxS	N/A	N/A	7.82	7.80	888		06/16/2022 16:51
13C2 6:2FTS	N/A	N/A	7.12	7.10	379		06/16/2022 16:51
13C8 PFOA	N/A	N/A	7.45	7.43	997		06/16/2022 16:51
13C9 PFNA	N/A	N/A	8.09	8.08	716		06/16/2022 16:51
13C8 PFOS	N/A	N/A	9.17	9.16	396		06/16/2022 16:51
13C2 8:2FTS	N/A	N/A	8.39	8.38	3733		06/16/2022 16:51
13C6 PFDA	N/A	N/A	8.75	8.75	584		06/16/2022 16:51
d3-MeFOSAA	N/A	N/A	8.66	8.65	511		06/16/2022 16:51
13C8 PFOSA	N/A	N/A	11.19	11.17	426	R	06/16/2022 16:51
d5-EtFOSAA	N/A	N/A	8.97	8.96	402		06/16/2022 16:51
13C7 PFUdA	N/A	N/A	9.41	9.40	51		06/16/2022 16:51
13C2 PFDoA	N/A	N/A	10.05	10.04	45		06/16/2022 16:51
13C2 PFTeDA	N/A	N/A	11.30	11.29	53		06/16/2022 16:51
13C3 HFPO-DA	N/A	N/A	6.44	6.45	730		06/16/2022 16:51
d3-N-MeFOSA	N/A	N/A	13.11	13.11	14	R	06/16/2022 16:51

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB58-3	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490037	Total Amount Extracted	5.07g
Lab File ID	Q220616B_012	Percent Moisture	14.1235%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:29	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.80	4.76	ND		06/16/2022 16:51
PFPeA	N/A	N/A	5.54	5.57	ND		06/16/2022 16:51
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 16:51
PFBS	0.00	0.31	0.00	6.44	ND		06/16/2022 16:51
PFHxA	0.00	0.06	0.00	6.20	ND		06/16/2022 16:51
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 16:51
PFPeS	0.00	0.37	0.00	7.15	ND		06/16/2022 16:51
PFHpA	0.00	0.52	0.00	6.86	ND		06/16/2022 16:51
DONA	0.00	0.37	0.00	7.10	ND		06/16/2022 16:51
PFHxS	0.00	0.31	0.00	7.81	ND		06/16/2022 16:51
PFOA	0.00	0.27	0.00	7.44	ND		06/16/2022 16:51
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 16:51
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 16:51
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 16:51
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 16:51
PFOS	0.27	0.26	9.19	9.17	227		06/16/2022 16:51
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 16:51
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 16:51
8:2 FTS	1.10	1.50	8.39	8.37	ND		06/16/2022 16:51
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 16:51
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 16:51
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 16:51
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 16:51
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 16:51
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 16:51
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 16:51
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 16:51
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 16:51
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 16:51

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB164-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490038	Total Amount Extracted	5.13g
Lab File ID	Q220616B_013	Percent Moisture	11.3684%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 10:08	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/16/2022 17:10
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/16/2022 17:10
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/16/2022 17:10
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/16/2022 17:10
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/16/2022 17:10
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/16/2022 17:10
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/16/2022 17:10
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/16/2022 17:10
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/16/2022 17:10
PFHxS	ND	0.10	0.10	0.02	1	355-46-4		06/16/2022 17:10
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/16/2022 17:10
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/16/2022 17:10
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/16/2022 17:10
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/16/2022 17:10
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/16/2022 17:10
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/16/2022 17:10
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/16/2022 17:10
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/16/2022 17:10
8:2 FTS	ND	0.11	0.11	0.02	1	39108-34-4		06/16/2022 17:10
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/16/2022 17:10
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/16/2022 17:10
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/16/2022 17:10
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/16/2022 17:10
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/16/2022 17:10
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/16/2022 17:10
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/16/2022 17:10
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/16/2022 17:10
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/16/2022 17:10
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/16/2022 17:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB164-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490038	Total Amount Extracted	5.13g
Lab File ID	Q220616B_013	Percent Moisture	11.3684%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 10:08	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.88	80	50-150		06/16/2022 17:10
13C4 PFOA	1.1	1.1	97	50-150		06/16/2022 17:10
13C2 PFDA	1.1	1.0	91	50-150		06/16/2022 17:10
13C4 PFOS	1.1	1.2	115	50-150		06/16/2022 17:10

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.0	92	50-150		06/16/2022 17:10
13C5 PFPeA	1.1	0.95	86	50-150		06/16/2022 17:10
13C3 PFBS	1.0	1.0	103	50-150		06/16/2022 17:10
13C2 4:2FTS	1.0	1.0	98	50-150		06/16/2022 17:10
13C5 PFHxA	1.1	1.1	98	50-150		06/16/2022 17:10
13C4 PFHpA	1.1	1.1	100	50-150		06/16/2022 17:10
13C3 PFHxS	1.0	0.93	89	50-150		06/16/2022 17:10
13C2 6:2FTS	1.0	1.0	100	50-150		06/16/2022 17:10
13C8 PFOA	1.1	1.0	91	50-150		06/16/2022 17:10
13C9 PFNA	1.1	1.0	92	50-150		06/16/2022 17:10
13C8 PFOS	1.1	0.90	85	50-150		06/16/2022 17:10
13C2 8:2FTS	1.1	0.87	83	50-150		06/16/2022 17:10
13C6 PFDA	1.1	0.99	90	50-150		06/16/2022 17:10
d3-MeFOSAA	1.1	1.0	92	50-150		06/16/2022 17:10
13C8 PFOSA	1.1	0.77	70	50-150		06/16/2022 17:10
d5-EtFOSAA	1.1	1.0	93	50-150		06/16/2022 17:10
13C7 PFUdA	1.1	1.1	101	50-150		06/16/2022 17:10
13C2 PFDoA	1.1	1.0	94	50-150		06/16/2022 17:10
13C2 PFTeDA	1.1	1.2	105	50-150		06/16/2022 17:10
13C3 HFPO-DA	1.1	0.93	84	50-150		06/16/2022 17:10
d3-N-MeFOSA	1.1	0.032	3	10-150	R	06/16/2022 17:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB164-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490038	Total Amount Extracted	5.13g
Lab File ID	Q220616B_013	Percent Moisture	11.3684%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 10:08	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.17	6.16	642		06/16/2022 17:10
13C4 PFOA	N/A	N/A	7.46	7.44	815		06/16/2022 17:10
13C2 PFDA	N/A	N/A	8.76	8.79	511		06/16/2022 17:10
13C4 PFOS	N/A	N/A	9.18	9.21	467		06/16/2022 17:10

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.76	4.75	30		06/16/2022 17:10
13C5 PFPeA	N/A	N/A	5.54	5.53	1073		06/16/2022 17:10
13C3 PFBS	N/A	N/A	6.40	6.39	35		06/16/2022 17:10
13C2 4:2FTS	N/A	N/A	5.91	5.90	71		06/16/2022 17:10
13C5 PFHxA	N/A	N/A	6.18	6.16	720		06/16/2022 17:10
13C4 PFHpA	N/A	N/A	6.81	6.79	720		06/16/2022 17:10
13C3 PFHxS	N/A	N/A	7.83	7.80	740		06/16/2022 17:10
13C2 6:2FTS	N/A	N/A	7.12	7.10	345		06/16/2022 17:10
13C8 PFOA	N/A	N/A	7.46	7.43	803		06/16/2022 17:10
13C9 PFNA	N/A	N/A	8.11	8.08	1027		06/16/2022 17:10
13C8 PFOS	N/A	N/A	9.18	9.16	853		06/16/2022 17:10
13C2 8:2FTS	N/A	N/A	8.40	8.38	1200		06/16/2022 17:10
13C6 PFDA	N/A	N/A	8.77	8.75	575		06/16/2022 17:10
d3-MeFOSAA	N/A	N/A	8.67	8.65	511		06/16/2022 17:10
13C8 PFOSA	N/A	N/A	11.20	11.17	658		06/16/2022 17:10
d5-EtFOSAA	N/A	N/A	8.97	8.96	305		06/16/2022 17:10
13C7 PFUdA	N/A	N/A	9.41	9.40	39		06/16/2022 17:10
13C2 PFDoA	N/A	N/A	10.06	10.04	46		06/16/2022 17:10
13C2 PFTeDA	N/A	N/A	11.31	11.29	56		06/16/2022 17:10
13C3 HFPO-DA	N/A	N/A	6.44	6.45	655		06/16/2022 17:10
d3-N-MeFOSA	N/A	N/A	13.11	13.11	218	R	06/16/2022 17:10

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB164-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490038	Total Amount Extracted	5.13g
Lab File ID	Q220616B_013	Percent Moisture	11.3684%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 10:08	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.79	4.76	ND		06/16/2022 17:10
PFPeA	N/A	N/A	5.55	5.57	ND		06/16/2022 17:10
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 17:10
PFBS	0.00	0.31	0.00	6.44	ND		06/16/2022 17:10
PFHxA	0.00	0.06	0.00	6.20	ND		06/16/2022 17:10
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 17:10
PFPeS	0.00	0.37	0.00	7.15	ND		06/16/2022 17:10
PFHpA	0.00	0.52	0.00	6.86	ND		06/16/2022 17:10
DONA	0.00	0.37	0.00	7.10	ND		06/16/2022 17:10
PFHxS	0.57	0.31	7.83	7.81	ND		06/16/2022 17:10
PFOA	0.00	0.27	0.00	7.44	ND		06/16/2022 17:10
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 17:10
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 17:10
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 17:10
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 17:10
PFOS	0.00	0.26	0.00	9.17	ND		06/16/2022 17:10
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 17:10
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 17:10
8:2 FTS	0.00	1.50	0.00	8.37	ND		06/16/2022 17:10
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 17:10
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 17:10
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 17:10
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 17:10
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 17:10
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 17:10
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 17:10
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 17:10
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 17:10
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 17:10

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB58-1
 Lab Sample ID 10609490039
 Lab File ID Q220616B_014
 Matrix Soil
 Collected 05/18/2022 13:24
 Received 05/20/2022 08:50

Extraction Date 06/13/2022 15:25
 Total Amount Extracted 5.06g
 Percent Moisture 14.7552%
 Ical ID 220616A01
 CCal File Q220616B_004
 Ending CCal File Q220616B_016
 Blank File Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.12	0.12	0.02	1	375-22-4		06/16/2022 17:28
PFPeA	ND	0.12	0.12	0.03	1	2706-90-3		06/16/2022 17:28
HFPO-DA	ND	0.12	0.12	0.03	1	13252-13-6		06/16/2022 17:28
PFBS	ND	0.10	0.10	0.02	1	375-73-5		06/16/2022 17:28
PFHxA	ND	0.12	0.12	0.03	1	307-24-4		06/16/2022 17:28
4:2 FTS	ND	0.11	0.11	0.03	1	757124-72-4		06/16/2022 17:28
PFPeS	ND	0.11	0.11	0.02	1	2706-91-4		06/16/2022 17:28
PFHpA	ND	0.12	0.12	0.02	1	375-85-9		06/16/2022 17:28
DONA	ND	0.11	0.11	0.04	1	919005-14-4		06/16/2022 17:28
PFHxS	ND	0.11	0.11	0.02	1	355-46-4		06/16/2022 17:28
PFOA	ND	0.12	0.12	0.02	1	335-67-1		06/16/2022 17:28
6:2 FTS	ND	0.11	0.11	0.03	1	27619-97-2		06/16/2022 17:28
PFHpS	ND	0.11	0.11	0.02	1	375-92-8		06/16/2022 17:28
PFNA	ND	0.12	0.12	0.03	1	375-95-1		06/16/2022 17:28
PFOSAm	ND	0.12	0.12	0.02	1	754-91-6		06/16/2022 17:28
PFOS	0.15	0.11	0.11	0.03	1	1763-23-1		06/16/2022 17:28
MeFOSA	ND	0.12	0.12	0.02	1	31506-32-8		06/16/2022 17:28
PFDA	ND	0.12	0.12	0.02	1	335-76-2		06/16/2022 17:28
8:2 FTS	ND	0.11	0.11	0.03	1	39108-34-4		06/16/2022 17:28
9-CI-PF3ON	ND	0.11	0.11	0.01	1	756426-58-1		06/16/2022 17:28
PFNS	ND	0.11	0.11	0.02	1	68259-12-1		06/16/2022 17:28
PFUnDA	ND	0.12	0.12	0.03	1	2058-94-8		06/16/2022 17:28
NMeFOSAA	ND	0.12	0.12	0.02	1	2355-31-9		06/16/2022 17:28
NEtFOSAA	ND	0.12	0.12	0.02	1	2991-50-6		06/16/2022 17:28
PFDS	ND	0.11	0.11	0.02	1	335-77-3		06/16/2022 17:28
PFDOA	ND	0.12	0.12	0.03	1	307-55-1		06/16/2022 17:28
11-CI-PF3OUdS	ND	0.11	0.11	0.01	1	763051-92-9		06/16/2022 17:28
PFTTrDA	ND	0.12	0.12	0.02	1	72629-94-8		06/16/2022 17:28
PFTDA	ND	0.12	0.12	0.03	1	376-06-7		06/16/2022 17:28

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB58-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490039	Total Amount Extracted	5.06g
Lab File ID	Q220616B_014	Percent Moisture	14.7552%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:24	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.2	1.0	90	50-150		06/16/2022 17:28
13C4 PFOA	1.2	1.2	100	50-150		06/16/2022 17:28
13C2 PFDA	1.2	1.3	110	50-150		06/16/2022 17:28
13C4 PFOS	1.1	1.3	116	50-150		06/16/2022 17:28

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.2	1.1	94	50-150		06/16/2022 17:28
13C5 PFPeA	1.2	1.1	93	50-150		06/16/2022 17:28
13C3 PFBS	1.1	1.1	105	50-150		06/16/2022 17:28
13C2 4:2FTS	1.1	1.2	108	50-150		06/16/2022 17:28
13C5 PFHxA	1.2	1.1	92	50-150		06/16/2022 17:28
13C4 PFHpA	1.2	0.97	84	50-150		06/16/2022 17:28
13C3 PFHxS	1.1	1.0	93	50-150		06/16/2022 17:28
13C2 6:2FTS	1.1	1.1	99	50-150		06/16/2022 17:28
13C8 PFOA	1.2	1.2	99	50-150		06/16/2022 17:28
13C9 PFNA	1.2	1.1	98	50-150		06/16/2022 17:28
13C8 PFOS	1.1	1.0	94	50-150		06/16/2022 17:28
13C2 8:2FTS	1.1	1.0	94	50-150		06/16/2022 17:28
13C6 PFDA	1.2	1.1	94	50-150		06/16/2022 17:28
d3-MeFOSAA	1.2	1.1	94	50-150		06/16/2022 17:28
13C8 PFOSA	1.2	0.21	18	50-150	R	06/16/2022 17:28
d5-EtFOSAA	1.2	1.2	104	50-150		06/16/2022 17:28
13C7 PFUdA	1.2	1.3	115	50-150		06/16/2022 17:28
13C2 PFDoA	1.2	1.2	104	50-150		06/16/2022 17:28
13C2 PFTeDA	1.2	1.1	96	50-150		06/16/2022 17:28
13C3 HFPO-DA	1.2	0.89	77	50-150		06/16/2022 17:28
d3-N-MeFOSA	1.2	0.0026	0	10-150	R	06/16/2022 17:28

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB58-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490039	Total Amount Extracted	5.06g
Lab File ID	Q220616B_014	Percent Moisture	14.7552%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:24	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.18	6.16	711		06/16/2022 17:28
13C4 PFOA	N/A	N/A	7.45	7.44	729		06/16/2022 17:28
13C2 PFDA	N/A	N/A	8.76	8.79	596		06/16/2022 17:28
13C4 PFOS	N/A	N/A	9.18	9.21	609		06/16/2022 17:28

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.77	4.75	34		06/16/2022 17:28
13C5 PFPeA	N/A	N/A	5.54	5.53	1196		06/16/2022 17:28
13C3 PFBS	N/A	N/A	6.40	6.39	31		06/16/2022 17:28
13C2 4:2FTS	N/A	N/A	5.91	5.90	110		06/16/2022 17:28
13C5 PFHxA	N/A	N/A	6.18	6.16	701		06/16/2022 17:28
13C4 PFHpA	N/A	N/A	6.81	6.79	857		06/16/2022 17:28
13C3 PFHxS	N/A	N/A	7.82	7.80	665		06/16/2022 17:28
13C2 6:2FTS	N/A	N/A	7.12	7.10	642		06/16/2022 17:28
13C8 PFOA	N/A	N/A	7.45	7.43	883		06/16/2022 17:28
13C9 PFNA	N/A	N/A	8.10	8.08	989		06/16/2022 17:28
13C8 PFOS	N/A	N/A	9.18	9.16	431		06/16/2022 17:28
13C2 8:2FTS	N/A	N/A	8.39	8.38	827		06/16/2022 17:28
13C6 PFDA	N/A	N/A	8.76	8.75	635		06/16/2022 17:28
d3-MeFOSAA	N/A	N/A	8.67	8.65	654		06/16/2022 17:28
13C8 PFOSA	N/A	N/A	11.20	11.17	533	R	06/16/2022 17:28
d5-EtFOSAA	N/A	N/A	8.97	8.96	336		06/16/2022 17:28
13C7 PFUdA	N/A	N/A	9.41	9.40	45		06/16/2022 17:28
13C2 PFDoA	N/A	N/A	10.06	10.04	46		06/16/2022 17:28
13C2 PFTeDA	N/A	N/A	11.31	11.29	45		06/16/2022 17:28
13C3 HFPO-DA	N/A	N/A	6.44	6.45	522		06/16/2022 17:28
d3-N-MeFOSA	N/A	N/A	13.14	13.11	31	R	06/16/2022 17:28

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB58-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490039	Total Amount Extracted	5.06g
Lab File ID	Q220616B_014	Percent Moisture	14.7552%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 13:24	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.80	4.76	ND		06/16/2022 17:28
PFPeA	N/A	N/A	5.55	5.57	ND		06/16/2022 17:28
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 17:28
PFBS	0.00	0.31	0.00	6.44	ND		06/16/2022 17:28
PFHxA	0.00	0.06	0.00	6.20	ND		06/16/2022 17:28
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 17:28
PFPeS	0.00	0.37	0.00	7.15	ND		06/16/2022 17:28
PFHpA	0.00	0.52	0.00	6.86	ND		06/16/2022 17:28
DONA	0.00	0.37	0.00	7.10	ND		06/16/2022 17:28
PFHxS	0.83	0.31	7.83	7.81	ND		06/16/2022 17:28
PFOA	0.00	0.27	0.00	7.44	ND		06/16/2022 17:28
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 17:28
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 17:28
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 17:28
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 17:28
PFOS	0.27	0.26	9.19	9.17	247		06/16/2022 17:28
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 17:28
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 17:28
8:2 FTS	1.80	1.50	8.39	8.37	ND		06/16/2022 17:28
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 17:28
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 17:28
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 17:28
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 17:28
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 17:28
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 17:28
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 17:28
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 17:28
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 17:28
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 17:28

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB55-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490040	Total Amount Extracted	5.07g
Lab File ID	Q220616B_015	Percent Moisture	9.0211%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:04	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.02	1	375-22-4		06/16/2022 17:47
PFPeA	ND	0.11	0.11	0.02	1	2706-90-3		06/16/2022 17:47
HFPO-DA	ND	0.11	0.11	0.03	1	13252-13-6		06/16/2022 17:47
PFBS	ND	0.09	0.09	0.02	1	375-73-5		06/16/2022 17:47
PFHxA	ND	0.11	0.11	0.03	1	307-24-4		06/16/2022 17:47
4:2 FTS	ND	0.10	0.10	0.03	1	757124-72-4		06/16/2022 17:47
PFPeS	ND	0.10	0.10	0.02	1	2706-91-4		06/16/2022 17:47
PFHpA	ND	0.11	0.11	0.02	1	375-85-9		06/16/2022 17:47
DONA	ND	0.10	0.10	0.04	1	919005-14-4		06/16/2022 17:47
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/16/2022 17:47
PFOA	ND	0.11	0.11	0.02	1	335-67-1		06/16/2022 17:47
6:2 FTS	ND	0.10	0.10	0.03	1	27619-97-2		06/16/2022 17:47
PFHpS	ND	0.10	0.10	0.02	1	375-92-8		06/16/2022 17:47
PFNA	ND	0.11	0.11	0.03	1	375-95-1		06/16/2022 17:47
PFOSAm	ND	0.11	0.11	0.02	1	754-91-6		06/16/2022 17:47
PFOS	ND	0.10	0.10	0.03	1	1763-23-1		06/16/2022 17:47
MeFOSA	ND	0.11	0.11	0.02	1	31506-32-8		06/16/2022 17:47
PFDA	ND	0.11	0.11	0.02	1	335-76-2		06/16/2022 17:47
8:2 FTS	ND	0.10	0.10	0.02	1	39108-34-4		06/16/2022 17:47
9-CI-PF3ON	ND	0.10	0.10	0.01	1	756426-58-1		06/16/2022 17:47
PFNS	ND	0.10	0.10	0.01	1	68259-12-1		06/16/2022 17:47
PFUnDA	ND	0.11	0.11	0.03	1	2058-94-8		06/16/2022 17:47
NMeFOSAA	ND	0.11	0.11	0.02	1	2355-31-9		06/16/2022 17:47
NEtFOSAA	ND	0.11	0.11	0.02	1	2991-50-6		06/16/2022 17:47
PFDS	ND	0.10	0.10	0.02	1	335-77-3		06/16/2022 17:47
PFDOA	ND	0.11	0.11	0.02	1	307-55-1		06/16/2022 17:47
11-CI-PF3OUdS	ND	0.10	0.10	0.01	1	763051-92-9		06/16/2022 17:47
PFTTrDA	ND	0.11	0.11	0.02	1	72629-94-8		06/16/2022 17:47
PFTDA	ND	0.11	0.11	0.03	1	376-06-7		06/16/2022 17:47

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB55-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490040	Total Amount Extracted	5.07g
Lab File ID	Q220616B_015	Percent Moisture	9.0211%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:04	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.97	89	50-150		06/16/2022 17:47
13C4 PFOA	1.1	1.1	102	50-150		06/16/2022 17:47
13C2 PFDA	1.1	1.1	106	50-150		06/16/2022 17:47
13C4 PFOS	1.0	1.3	123	50-150		06/16/2022 17:47

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	1.00	92	50-150		06/16/2022 17:47
13C5 PFPeA	1.1	1.1	98	50-150		06/16/2022 17:47
13C3 PFBS	1.0	0.93	93	50-150		06/16/2022 17:47
13C2 4:2FTS	1.0	0.97	96	50-150		06/16/2022 17:47
13C5 PFHxA	1.1	1.1	101	50-150		06/16/2022 17:47
13C4 PFHpA	1.1	1.1	99	50-150		06/16/2022 17:47
13C3 PFHxS	1.0	0.85	83	50-150		06/16/2022 17:47
13C2 6:2FTS	1.0	0.92	89	50-150		06/16/2022 17:47
13C8 PFOA	1.1	0.97	90	50-150		06/16/2022 17:47
13C9 PFNA	1.1	1.1	97	50-150		06/16/2022 17:47
13C8 PFOS	1.0	1.0	99	50-150		06/16/2022 17:47
13C2 8:2FTS	1.0	0.90	86	50-150		06/16/2022 17:47
13C6 PFDA	1.1	0.94	87	50-150		06/16/2022 17:47
d3-MeFOSAA	1.1	0.90	83	50-150		06/16/2022 17:47
13C8 PFOSA	1.1	0.87	80	50-150		06/16/2022 17:47
d5-EtFOSAA	1.1	0.88	81	50-150		06/16/2022 17:47
13C7 PFUdA	1.1	1.2	107	50-150		06/16/2022 17:47
13C2 PFDoA	1.1	1.00	92	50-150		06/16/2022 17:47
13C2 PFTeDA	1.1	1.2	110	50-150		06/16/2022 17:47
13C3 HFPO-DA	1.1	0.96	89	50-150		06/16/2022 17:47
d3-N-MeFOSA	1.1	0.0069	1	10-150	R	06/16/2022 17:47

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB55-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490040	Total Amount Extracted	5.07g
Lab File ID	Q220616B_015	Percent Moisture	9.0211%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:04	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	744		06/16/2022 17:47
13C4 PFOA	N/A	N/A	7.45	7.44	883		06/16/2022 17:47
13C2 PFDA	N/A	N/A	8.75	8.79	567		06/16/2022 17:47
13C4 PFOS	N/A	N/A	9.17	9.21	662		06/16/2022 17:47

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.75	4.75	35		06/16/2022 17:47
13C5 PFPeA	N/A	N/A	5.53	5.53	1132		06/16/2022 17:47
13C3 PFBS	N/A	N/A	6.39	6.39	32		06/16/2022 17:47
13C2 4:2FTS	N/A	N/A	5.90	5.90	70		06/16/2022 17:47
13C5 PFHxA	N/A	N/A	6.17	6.16	631		06/16/2022 17:47
13C4 PFHpA	N/A	N/A	6.80	6.79	685		06/16/2022 17:47
13C3 PFHxS	N/A	N/A	7.82	7.80	941		06/16/2022 17:47
13C2 6:2FTS	N/A	N/A	7.11	7.10	388		06/16/2022 17:47
13C8 PFOA	N/A	N/A	7.45	7.43	689		06/16/2022 17:47
13C9 PFNA	N/A	N/A	8.10	8.08	930		06/16/2022 17:47
13C8 PFOS	N/A	N/A	9.18	9.16	535		06/16/2022 17:47
13C2 8:2FTS	N/A	N/A	8.39	8.38	453		06/16/2022 17:47
13C6 PFDA	N/A	N/A	8.76	8.75	705		06/16/2022 17:47
d3-MeFOSAA	N/A	N/A	8.67	8.65	943		06/16/2022 17:47
13C8 PFOSA	N/A	N/A	11.20	11.17	640		06/16/2022 17:47
d5-EtFOSAA	N/A	N/A	8.97	8.96	266		06/16/2022 17:47
13C7 PFUdA	N/A	N/A	9.41	9.40	48		06/16/2022 17:47
13C2 PFDoA	N/A	N/A	10.06	10.04	56		06/16/2022 17:47
13C2 PFTeDA	N/A	N/A	11.30	11.29	50		06/16/2022 17:47
13C3 HFPO-DA	N/A	N/A	6.43	6.45	763		06/16/2022 17:47
d3-N-MeFOSA	N/A	N/A	13.10	13.11	41	R	06/16/2022 17:47

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB55-1	Extraction Date	06/13/2022 15:25
Lab Sample ID	10609490040	Total Amount Extracted	5.07g
Lab File ID	Q220616B_015	Percent Moisture	9.0211%
Matrix	Soil	Ical ID	220616A01
Collected	05/18/2022 14:04	CCal File	Q220616B_004
Received	05/20/2022 08:50	Ending CCal File	Q220616B_016
		Blank File	Q220616B_059

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.77	4.76	ND		06/16/2022 17:47
PFPeA	N/A	N/A	5.54	5.57	ND		06/16/2022 17:47
HFPO-DA	0.00	0.46	0.00	6.49	ND		06/16/2022 17:47
PFBS	0.00	0.31	0.00	6.44	ND		06/16/2022 17:47
PFHxA	0.00	0.06	0.00	6.20	ND		06/16/2022 17:47
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/16/2022 17:47
PFPeS	0.00	0.37	0.00	7.15	ND		06/16/2022 17:47
PFHpA	0.63	0.52	6.81	6.86	ND		06/16/2022 17:47
DONA	0.00	0.37	0.00	7.10	ND		06/16/2022 17:47
PFHxS	0.00	0.31	0.00	7.81	ND		06/16/2022 17:47
PFOA	0.37	0.27	7.45	7.44	ND		06/16/2022 17:47
6:2 FTS	0.00	1.50	0.00	7.11	ND		06/16/2022 17:47
PFHpS	0.00	0.27	0.00	8.50	ND		06/16/2022 17:47
PFNA	0.00	0.22	0.00	8.08	ND		06/16/2022 17:47
PFOSAm	N/A	N/A	0.00	11.18	ND		06/16/2022 17:47
PFOS	0.19	0.26	9.18	9.17	ND		06/16/2022 17:47
MeFOSA	0.00	0.51	0.00	13.07	ND		06/16/2022 17:47
PFDA	0.00	0.20	0.00	8.74	ND		06/16/2022 17:47
8:2 FTS	0.00	1.50	0.00	8.37	ND		06/16/2022 17:47
9-Cl-PF3ON	0.00	0.04	0.00	9.64	ND		06/16/2022 17:47
PFNS	0.00	0.22	0.00	9.83	ND		06/16/2022 17:47
PFUnDA	0.00	0.16	0.00	9.40	ND		06/16/2022 17:47
NMeFOSAA	0.00	0.68	0.00	8.65	ND		06/16/2022 17:47
NEtFOSAA	0.00	0.57	0.00	8.99	ND		06/16/2022 17:47
PFDS	0.00	0.30	0.00	10.47	ND		06/16/2022 17:47
PFDOA	0.00	0.19	0.00	10.05	ND		06/16/2022 17:47
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/16/2022 17:47
PFTrDA	0.00	0.19	0.00	10.68	ND		06/16/2022 17:47
PFTDA	0.00	0.12	0.00	11.30	ND		06/16/2022 17:47

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKFQ	Extraction Date	06/03/2022 07:24
Lab Sample ID	BLANK-99259	Total Amount Extracted	259mL
Lab File ID	B220606A_019	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	06/01/2022 11:03	CCal File	B220606A_018
Received	06/01/2022 11:03	Ending CCal File	B220606A_029
		Blank File	

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	1.9	0.43	1	375-22-4		06/06/2022 15:38
PFPeA	ND	1.9	1.9	0.42	1	2706-90-3		06/06/2022 15:38
HFPO-DA	ND	1.9	1.9	0.51	1	13252-13-6		06/06/2022 15:38
PFBS	ND	1.7	1.7	0.46	1	375-73-5		06/06/2022 15:38
PFHxA	ND	1.9	1.9	0.42	1	307-24-4		06/06/2022 15:38
4:2 FTS	ND	1.8	1.8	0.54	1	757124-72-4		06/06/2022 15:38
PFPeS	ND	1.8	1.8	0.46	1	2706-91-4		06/06/2022 15:38
PFHpA	ND	1.9	1.9	0.53	1	375-85-9		06/06/2022 15:38
DONA	ND	1.8	1.8	0.50	1	919005-14-4		06/06/2022 15:38
PFHxS	ND	1.8	1.8	0.49	1	355-46-4		06/06/2022 15:38
PFOA	ND	1.9	1.9	0.57	1	335-67-1		06/06/2022 15:38
6:2 FTS	ND	1.8	1.8	0.62	1	27619-97-2		06/06/2022 15:38
PFHpS	ND	1.8	1.8	0.40	1	375-92-8		06/06/2022 15:38
PFNA	ND	1.9	1.9	0.72	1	375-95-1		06/06/2022 15:38
PFOSAm	ND	1.9	1.9	0.79	1	754-91-6		06/06/2022 15:38
PFOS	ND	1.8	1.8	0.53	1	1763-23-1		06/06/2022 15:38
MeFOSA	ND	1.9	1.9	0.49	1	31506-32-8		06/06/2022 15:38
PFDA	ND	1.9	1.9	0.55	1	335-76-2		06/06/2022 15:38
8:2 FTS	ND	1.9	1.9	0.63	1	39108-34-4		06/06/2022 15:38
9-CI-PF3ON	ND	1.8	1.8	0.29	1	756426-58-1		06/06/2022 15:38
PFNS	ND	1.9	1.9	0.43	1	68259-12-1		06/06/2022 15:38
PFUnDA	ND	1.9	1.9	0.52	1	2058-94-8		06/06/2022 15:38
NMeFOSAA	ND	1.9	1.9	0.42	1	2355-31-9		06/06/2022 15:38
NEtFOSAA	ND	1.9	1.9	0.54	1	2991-50-6		06/06/2022 15:38
PFDS	ND	1.9	1.9	0.44	1	335-77-3		06/06/2022 15:38
PFDOA	ND	1.9	1.9	0.47	1	307-55-1		06/06/2022 15:38
11-CI-PF3OUdS	ND	1.8	1.8	0.42	1	763051-92-9		06/06/2022 15:38
PFTTrDA	ND	1.9	1.9	0.60	1	72629-94-8		06/06/2022 15:38
PFTDA	ND	1.9	1.9	0.46	1	376-06-7		06/06/2022 15:38

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKFQ	Extraction Date	06/03/2022 07:24
Lab Sample ID	BLANK-99259	Total Amount Extracted	259mL
Lab File ID	B220606A_019	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	06/01/2022 11:03	CCal File	B220606A_018
Received	06/01/2022 11:03	Ending CCal File	B220606A_029
		Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	20	105	50-150		06/06/2022 15:38
13C4 PFOA	19	19	100	50-150		06/06/2022 15:38
13C2 PFDA	19	19	100	50-150		06/06/2022 15:38
13C4 PFOS	19	19	102	50-150		06/06/2022 15:38

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	19	98	50-150		06/06/2022 15:38
13C5 PFPeA	19	18	94	50-150		06/06/2022 15:38
13C3 PFBS	18	18	99	50-150		06/06/2022 15:38
13C2 4:2FTS	18	16	89	50-150		06/06/2022 15:38
13C5 PFHxA	19	19	96	50-150		06/06/2022 15:38
13C4 PFHpA	19	18	91	50-150		06/06/2022 15:38
13C3 PFHxS	18	17	95	50-150		06/06/2022 15:38
13C2 6:2FTS	18	17	92	50-150		06/06/2022 15:38
13C8 PFOA	19	18	94	50-150		06/06/2022 15:38
13C9 PFNA	19	18	92	50-150		06/06/2022 15:38
13C8 PFOS	19	19	101	50-150		06/06/2022 15:38
13C2 8:2FTS	19	16	84	50-150		06/06/2022 15:38
13C6 PFDA	19	18	93	50-150		06/06/2022 15:38
d3-MeFOSAA	19	16	85	50-150		06/06/2022 15:38
13C8 PFOSA	19	15	78	50-150		06/06/2022 15:38
d5-EtFOSAA	19	16	84	50-150		06/06/2022 15:38
13C7 PFUdA	19	19	98	50-150		06/06/2022 15:38
13C2 PFDaA	19	19	99	50-150		06/06/2022 15:38
13C2 PFTeDA	19	18	96	50-150		06/06/2022 15:38
13C3 HFPO-DA	19	18	94	50-150		06/06/2022 15:38
d3-N-MeFOSA	19	1.8	9	10-150	R	06/06/2022 15:38

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKFQ	Extraction Date	06/03/2022 07:24
Lab Sample ID	BLANK-99259	Total Amount Extracted	259mL
Lab File ID	B220606A_019	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	06/01/2022 11:03	CCal File	B220606A_018
Received	06/01/2022 11:03	Ending CCal File	B220606A_029
		Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.82	1961		06/06/2022 15:38
13C4 PFOA	N/A	N/A	7.23	7.15	2045		06/06/2022 15:38
13C2 PFDA	N/A	N/A	8.63	8.57	2105		06/06/2022 15:38
13C4 PFOS	N/A	N/A	9.14	9.07	1663		06/06/2022 15:38

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.34	4.37	2441		06/06/2022 15:38
13C5 PFPeA	N/A	N/A	5.16	5.15	1674		06/06/2022 15:38
13C3 PFBS	N/A	N/A	6.14	6.16	4017		06/06/2022 15:38
13C2 4:2FTS	N/A	N/A	5.57	5.56	579		06/06/2022 15:38
13C5 PFHxA	N/A	N/A	5.86	5.85	1936		06/06/2022 15:38
13C4 PFHpA	N/A	N/A	6.55	6.54	1973		06/06/2022 15:38
13C3 PFHxS	N/A	N/A	7.67	7.66	1726		06/06/2022 15:38
13C2 6:2FTS	N/A	N/A	6.87	6.86	1265		06/06/2022 15:38
13C8 PFOA	N/A	N/A	7.23	7.22	2543		06/06/2022 15:38
13C9 PFNA	N/A	N/A	7.92	7.90	1657		06/06/2022 15:38
13C8 PFOS	N/A	N/A	9.14	9.12	3261		06/06/2022 15:38
13C2 8:2FTS	N/A	N/A	8.22	8.20	1153		06/06/2022 15:38
13C6 PFDA	N/A	N/A	8.63	8.61	1538		06/06/2022 15:38
d3-MeFOSAA	N/A	N/A	8.48	8.46	1244		06/06/2022 15:38
13C8 PFOSA	N/A	N/A	10.89	10.88	2478		06/06/2022 15:38
d5-EtFOSAA	N/A	N/A	8.80	8.77	705		06/06/2022 15:38
13C7 PFUdA	N/A	N/A	9.33	9.31	2880		06/06/2022 15:38
13C2 PFDoA	N/A	N/A	10.04	10.01	1355		06/06/2022 15:38
13C2 PFTeDA	N/A	N/A	11.38	11.36	1289		06/06/2022 15:38
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1612		06/06/2022 15:38
d3-N-MeFOSA	N/A	N/A	12.81	12.79	460	R	06/06/2022 15:38

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKFQ	Extraction Date	06/03/2022 07:24
Lab Sample ID	BLANK-99259	Total Amount Extracted	259mL
Lab File ID	B220606A_019	Percent Moisture	N/A
Matrix	Water	Ical ID	220603A02
Collected	06/01/2022 11:03	CCal File	B220606A_018
Received	06/01/2022 11:03	Ending CCal File	B220606A_029
		Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.34	4.36	ND		06/06/2022 15:38
PFPeA	N/A	N/A	5.16	5.14	ND		06/06/2022 15:38
HFPO-DA	0.29	0.31	6.16	6.14	ND		06/06/2022 15:38
PFBS	0.41	0.42	6.14	6.17	ND		06/06/2022 15:38
PFHxA	0.15	0.08	5.87	5.84	ND		06/06/2022 15:38
4:2 FTS	0.00	0.90	0.00	5.56	ND		06/06/2022 15:38
PFPeS	0.00	0.43	0.00	6.89	ND		06/06/2022 15:38
PFHpA	0.27	0.33	6.56	6.50	ND		06/06/2022 15:38
DONA	0.48	0.65	6.80	6.76	ND		06/06/2022 15:38
PFHxS	0.60	0.34	7.69	7.65	ND		06/06/2022 15:38
PFOA	0.31	0.38	7.24	7.22	ND		06/06/2022 15:38
6:2 FTS	0.90	0.90	6.88	6.86	ND		06/06/2022 15:38
PFHpS	0.00	0.38	0.00	8.41	ND		06/06/2022 15:38
PFNA	0.16	0.15	7.92	7.91	ND		06/06/2022 15:38
PFOSAm	N/A	N/A	10.91	10.89	ND		06/06/2022 15:38
PFOS	0.37	0.39	9.15	9.11	ND		06/06/2022 15:38
MeFOSA	0.00	0.56	0.00	12.77	ND		06/06/2022 15:38
PFDA	0.00	0.17	0.00	8.59	ND		06/06/2022 15:38
8:2 FTS	0.00	0.99	0.00	8.21	ND		06/06/2022 15:38
9-Cl-PF3ON	0.00	0.06	0.00	9.64	ND		06/06/2022 15:38
PFNS	0.00	0.48	0.00	9.83	ND		06/06/2022 15:38
PFUnDA	0.15	0.14	9.34	9.32	ND		06/06/2022 15:38
NMeFOSAA	0.00	0.89	0.00	8.55	ND		06/06/2022 15:38
NEtFOSAA	0.00	0.62	0.00	8.77	ND		06/06/2022 15:38
PFDS	0.00	0.37	0.00	10.53	ND		06/06/2022 15:38
PFDOA	0.00	0.17	0.00	10.02	ND		06/06/2022 15:38
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/06/2022 15:38
PFTrDA	0.00	0.17	0.00	10.70	ND		06/06/2022 15:38
PFTDA	0.26	0.24	11.38	11.36	ND		06/06/2022 15:38

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGS	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99341	Total Amount Extracted	5.00g
Lab File ID	B220609B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:07	CCal File	B220609B_002
Received	06/06/2022 12:07	Ending CCal File	B220609B_016
		Blank File	

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.02	1	375-22-4		06/09/2022 23:12
PFPeA	ND	0.10	0.10	0.02	1	2706-90-3		06/09/2022 23:12
HFPO-DA	ND	0.10	0.10	0.03	1	13252-13-6		06/09/2022 23:12
PFBS	ND	0.08	0.08	0.02	1	375-73-5		06/09/2022 23:12
PFHxA	ND	0.10	0.10	0.03	1	307-24-4		06/09/2022 23:12
4:2 FTS	ND	0.09	0.09	0.03	1	757124-72-4		06/09/2022 23:12
PFPeS	ND	0.09	0.09	0.01	1	2706-91-4		06/09/2022 23:12
PFHpA	ND	0.10	0.10	0.02	1	375-85-9		06/09/2022 23:12
DONA	ND	0.09	0.09	0.03	1	919005-14-4		06/09/2022 23:12
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/09/2022 23:12
PFOA	ND	0.10	0.10	0.02	1	335-67-1		06/09/2022 23:12
6:2 FTS	ND	0.09	0.09	0.03	1	27619-97-2		06/09/2022 23:12
PFHpS	ND	0.09	0.09	0.02	1	375-92-8		06/09/2022 23:12
PFNA	ND	0.10	0.10	0.02	1	375-95-1		06/09/2022 23:12
PFOSAm	ND	0.10	0.10	0.02	1	754-91-6		06/09/2022 23:12
PFOS	ND	0.09	0.09	0.02	1	1763-23-1		06/09/2022 23:12
MeFOSA	ND	0.10	0.10	0.02	1	31506-32-8		06/09/2022 23:12
PFDA	ND	0.10	0.10	0.02	1	335-76-2		06/09/2022 23:12
8:2 FTS	ND	0.09	0.09	0.02	1	39108-34-4		06/09/2022 23:12
9-CI-PF3ON	ND	0.09	0.09	0.01	1	756426-58-1		06/09/2022 23:12
PFNS	ND	0.09	0.09	0.01	1	68259-12-1		06/09/2022 23:12
PFUnDA	ND	0.10	0.10	0.02	1	2058-94-8		06/09/2022 23:12
NMeFOSAA	ND	0.10	0.10	0.02	1	2355-31-9		06/09/2022 23:12
NEtFOSAA	ND	0.10	0.10	0.02	1	2991-50-6		06/09/2022 23:12
PFDS	ND	0.09	0.09	0.02	1	335-77-3		06/09/2022 23:12
PFDOA	ND	0.10	0.10	0.02	1	307-55-1		06/09/2022 23:12
11-CI-PF3OUdS	ND	0.09	0.09	0.01	1	763051-92-9		06/09/2022 23:12
PFTTrDA	ND	0.10	0.10	0.02	1	72629-94-8		06/09/2022 23:12
PFTDA	ND	0.10	0.10	0.03	1	376-06-7		06/09/2022 23:12

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGS	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99341	Total Amount Extracted	5.00g
Lab File ID	B220609B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:07	CCal File	B220609B_002
Received	06/06/2022 12:07	Ending CCal File	B220609B_016
		Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	1.3	130	50-150		06/09/2022 23:12
13C4 PFOA	1.0	1.1	111	50-150		06/09/2022 23:12
13C2 PFDA	1.0	1.2	116	50-150		06/09/2022 23:12
13C4 PFOS	0.96	1.1	114	50-150		06/09/2022 23:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	1.1	109	50-150		06/09/2022 23:12
13C5 PFPeA	1.0	1.1	106	50-150		06/09/2022 23:12
13C3 PFBS	0.93	0.97	104	50-150		06/09/2022 23:12
13C2 4:2FTS	0.94	1.1	114	50-150		06/09/2022 23:12
13C5 PFHxA	1.0	1.1	113	50-150		06/09/2022 23:12
13C4 PFHpA	1.0	1.1	105	50-150		06/09/2022 23:12
13C3 PFHxS	0.95	1.0	107	50-150		06/09/2022 23:12
13C2 6:2FTS	0.95	0.95	100	50-150		06/09/2022 23:12
13C8 PFOA	1.0	1.0	102	50-150		06/09/2022 23:12
13C9 PFNA	1.0	1.1	107	50-150		06/09/2022 23:12
13C8 PFOS	0.96	1.0	109	50-150		06/09/2022 23:12
13C2 8:2FTS	0.96	0.92	96	50-150		06/09/2022 23:12
13C6 PFDA	1.0	1.1	113	50-150		06/09/2022 23:12
d3-MeFOSAA	1.0	1.1	107	50-150		06/09/2022 23:12
13C8 PFOSA	1.0	1.1	105	50-150		06/09/2022 23:12
d5-EtFOSAA	1.0	0.97	97	50-150		06/09/2022 23:12
13C7 PFUdA	1.0	1.1	109	50-150		06/09/2022 23:12
13C2 PFDoA	1.0	1.1	109	50-150		06/09/2022 23:12
13C2 PFTeDA	1.0	1.1	109	50-150		06/09/2022 23:12
13C3 HFPO-DA	1.0	1.0	105	50-150		06/09/2022 23:12
d3-N-MeFOSA	1.0	0.79	79	10-150		06/09/2022 23:12

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGS	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99341	Total Amount Extracted	5.00g
Lab File ID	B220609B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:07	CCal File	B220609B_002
Received	06/06/2022 12:07	Ending CCal File	B220609B_016
		Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.82	2059		06/09/2022 23:12
13C4 PFOA	N/A	N/A	7.25	7.15	2383		06/09/2022 23:12
13C2 PFDA	N/A	N/A	8.65	8.57	2254		06/09/2022 23:12
13C4 PFOS	N/A	N/A	9.15	9.07	2751		06/09/2022 23:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2816		06/09/2022 23:12
13C5 PFPeA	N/A	N/A	5.15	5.15	2249		06/09/2022 23:12
13C3 PFBS	N/A	N/A	6.13	6.16	2314		06/09/2022 23:12
13C2 4:2FTS	N/A	N/A	5.56	5.56	634		06/09/2022 23:12
13C5 PFHxA	N/A	N/A	5.85	5.85	1713		06/09/2022 23:12
13C4 PFHpA	N/A	N/A	6.56	6.54	1705		06/09/2022 23:12
13C3 PFHxS	N/A	N/A	7.70	7.66	1971		06/09/2022 23:12
13C2 6:2FTS	N/A	N/A	6.89	6.86	1661		06/09/2022 23:12
13C8 PFOA	N/A	N/A	7.25	7.22	3114		06/09/2022 23:12
13C9 PFNA	N/A	N/A	7.95	7.90	2547		06/09/2022 23:12
13C8 PFOS	N/A	N/A	9.16	9.12	464		06/09/2022 23:12
13C2 8:2FTS	N/A	N/A	8.25	8.20	9773		06/09/2022 23:12
13C6 PFDA	N/A	N/A	8.65	8.61	1702		06/09/2022 23:12
d3-MeFOSAA	N/A	N/A	8.50	8.46	1316		06/09/2022 23:12
13C8 PFOSA	N/A	N/A	10.92	10.88	2887		06/09/2022 23:12
d5-EtFOSAA	N/A	N/A	8.81	8.77	938		06/09/2022 23:12
13C7 PFUdA	N/A	N/A	9.34	9.31	2715		06/09/2022 23:12
13C2 PFDoA	N/A	N/A	10.04	10.01	1422		06/09/2022 23:12
13C2 PFTeDA	N/A	N/A	11.38	11.36	1396		06/09/2022 23:12
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1386		06/09/2022 23:12
d3-N-MeFOSA	N/A	N/A	12.86	12.85	1149		06/09/2022 23:12

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGS	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99341	Total Amount Extracted	5.00g
Lab File ID	B220609B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:07	CCal File	B220609B_002
Received	06/06/2022 12:07	Ending CCal File	B220609B_016
		Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.36	ND		06/09/2022 23:12
PFPeA	N/A	N/A	5.16	5.14	ND		06/09/2022 23:12
HFPO-DA	0.26	0.29	6.16	6.14	ND		06/09/2022 23:12
PFBS	0.61	0.38	6.14	6.14	ND		06/09/2022 23:12
PFHxA	0.00	0.09	0.00	5.84	ND		06/09/2022 23:12
4:2 FTS	0.00	0.86	0.00	5.56	ND		06/09/2022 23:12
PFPeS	0.00	0.40	0.00	6.89	ND		06/09/2022 23:12
PFHpA	0.30	0.31	6.56	6.50	ND		06/09/2022 23:12
DONA	0.79	0.70	6.82	6.76	ND		06/09/2022 23:12
PFHxS	0.77	0.33	7.71	7.65	ND		06/09/2022 23:12
PFOA	0.17	0.35	7.26	7.22	ND		06/09/2022 23:12
6:2 FTS	0.00	0.89	0.00	6.86	ND		06/09/2022 23:12
PFHpS	0.00	0.38	0.00	8.41	ND		06/09/2022 23:12
PFNA	0.00	0.16	0.00	7.91	ND		06/09/2022 23:12
PFOSAm	N/A	N/A	10.93	10.89	ND		06/09/2022 23:12
PFOS	0.00	0.36	0.00	9.11	ND		06/09/2022 23:12
MeFOSA	0.00	0.62	0.00	12.81	ND		06/09/2022 23:12
PFDA	0.00	0.15	0.00	8.59	ND		06/09/2022 23:12
8:2 FTS	0.00	0.98	0.00	8.21	ND		06/09/2022 23:12
9-Cl-PF3ON	0.00	0.06	0.00	9.64	ND		06/09/2022 23:12
PFNS	0.00	0.48	0.00	9.83	ND		06/09/2022 23:12
PFUnDA	0.00	0.12	0.00	9.32	ND		06/09/2022 23:12
NMeFOSAA	0.00	0.91	0.00	8.55	ND		06/09/2022 23:12
NEtFOSAA	0.00	0.59	0.00	8.77	ND		06/09/2022 23:12
PFDS	0.00	0.35	0.00	10.53	ND		06/09/2022 23:12
PFDOA	0.00	0.17	0.00	10.02	ND		06/09/2022 23:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/09/2022 23:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/09/2022 23:12
PFTDA	0.15	0.23	11.38	11.36	ND		06/09/2022 23:12

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGT	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99343	Total Amount Extracted	5.01g
Lab File ID	B220610B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:12	CCal File	B220610B_002
Received	06/06/2022 12:12	Ending CCal File	B220610B_014
		Blank File	

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.02	1	375-22-4		06/10/2022 15:12
PFPeA	ND	0.10	0.10	0.02	1	2706-90-3		06/10/2022 15:12
HFPO-DA	ND	0.10	0.10	0.03	1	13252-13-6		06/10/2022 15:12
PFBS	ND	0.08	0.08	0.02	1	375-73-5		06/10/2022 15:12
PFHxA	ND	0.10	0.10	0.03	1	307-24-4		06/10/2022 15:12
4:2 FTS	ND	0.09	0.09	0.03	1	757124-72-4		06/10/2022 15:12
PFPeS	ND	0.09	0.09	0.01	1	2706-91-4		06/10/2022 15:12
PFHpA	ND	0.10	0.10	0.02	1	375-85-9		06/10/2022 15:12
DONA	ND	0.09	0.09	0.03	1	919005-14-4		06/10/2022 15:12
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/10/2022 15:12
PFOA	ND	0.10	0.10	0.02	1	335-67-1		06/10/2022 15:12
6:2 FTS	ND	0.09	0.09	0.03	1	27619-97-2		06/10/2022 15:12
PFHpS	ND	0.09	0.09	0.02	1	375-92-8		06/10/2022 15:12
PFNA	ND	0.10	0.10	0.02	1	375-95-1		06/10/2022 15:12
PFOSAm	ND	0.10	0.10	0.02	1	754-91-6		06/10/2022 15:12
PFOS	ND	0.09	0.09	0.02	1	1763-23-1		06/10/2022 15:12
MeFOSA	ND	0.10	0.10	0.02	1	31506-32-8		06/10/2022 15:12
PFDA	ND	0.10	0.10	0.02	1	335-76-2		06/10/2022 15:12
8:2 FTS	ND	0.09	0.09	0.02	1	39108-34-4		06/10/2022 15:12
9-CI-PF3ON	ND	0.09	0.09	0.01	1	756426-58-1		06/10/2022 15:12
PFNS	ND	0.09	0.09	0.01	1	68259-12-1		06/10/2022 15:12
PFUnDA	ND	0.10	0.10	0.02	1	2058-94-8		06/10/2022 15:12
NMeFOSAA	ND	0.10	0.10	0.02	1	2355-31-9		06/10/2022 15:12
NEtFOSAA	ND	0.10	0.10	0.02	1	2991-50-6		06/10/2022 15:12
PFDS	ND	0.09	0.09	0.02	1	335-77-3		06/10/2022 15:12
PFDOA	ND	0.10	0.10	0.02	1	307-55-1		06/10/2022 15:12
11-CI-PF3OUdS	ND	0.09	0.09	0.01	1	763051-92-9		06/10/2022 15:12
PFTTrDA	ND	0.10	0.10	0.02	1	72629-94-8		06/10/2022 15:12
PFTDA	ND	0.10	0.10	0.03	1	376-06-7		06/10/2022 15:12

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGT	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99343	Total Amount Extracted	5.01g
Lab File ID	B220610B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:12	CCal File	B220610B_002
Received	06/06/2022 12:12	Ending CCal File	B220610B_014
		Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.00	1.1	113	50-150		06/10/2022 15:12
13C4 PFOA	1.00	1.1	108	50-150		06/10/2022 15:12
13C2 PFDA	1.00	1.2	122	50-150		06/10/2022 15:12
13C4 PFOS	0.95	1.2	129	50-150		06/10/2022 15:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.00	1.0	101	50-150		06/10/2022 15:12
13C5 PFPeA	1.00	1.0	105	50-150		06/10/2022 15:12
13C3 PFBS	0.93	0.94	102	50-150		06/10/2022 15:12
13C2 4:2FTS	0.93	0.98	105	50-150		06/10/2022 15:12
13C5 PFHxA	1.00	1.0	101	50-150		06/10/2022 15:12
13C4 PFHpA	1.00	1.1	105	50-150		06/10/2022 15:12
13C3 PFHxS	0.94	0.94	100	50-150		06/10/2022 15:12
13C2 6:2FTS	0.95	1.0	109	50-150		06/10/2022 15:12
13C8 PFOA	1.00	1.0	104	50-150		06/10/2022 15:12
13C9 PFNA	1.00	1.0	105	50-150		06/10/2022 15:12
13C8 PFOS	0.95	1.00	105	50-150		06/10/2022 15:12
13C2 8:2FTS	0.96	0.96	101	50-150		06/10/2022 15:12
13C6 PFDA	1.00	1.1	112	50-150		06/10/2022 15:12
d3-MeFOSAA	1.00	1.0	102	50-150		06/10/2022 15:12
13C8 PFOSA	1.00	1.0	102	50-150		06/10/2022 15:12
d5-EtFOSAA	1.00	1.1	110	50-150		06/10/2022 15:12
13C7 PFUdA	1.00	1.0	105	50-150		06/10/2022 15:12
13C2 PFDoA	1.00	1.2	122	50-150		06/10/2022 15:12
13C2 PFTeDA	1.00	1.1	108	50-150		06/10/2022 15:12
13C3 HFPO-DA	1.00	1.0	104	50-150		06/10/2022 15:12
d3-N-MeFOSA	1.00	0.94	94	10-150		06/10/2022 15:12

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGT	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99343	Total Amount Extracted	5.01g
Lab File ID	B220610B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:12	CCal File	B220610B_002
Received	06/06/2022 12:12	Ending CCal File	B220610B_014
		Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.82	1694		06/10/2022 15:12
13C4 PFOA	N/A	N/A	7.24	7.15	2092		06/10/2022 15:12
13C2 PFDA	N/A	N/A	8.65	8.57	1887		06/10/2022 15:12
13C4 PFOS	N/A	N/A	9.16	9.07	2792		06/10/2022 15:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.32	4.37	2504		06/10/2022 15:12
13C5 PFPeA	N/A	N/A	5.15	5.15	1817		06/10/2022 15:12
13C3 PFBS	N/A	N/A	6.12	6.16	2383		06/10/2022 15:12
13C2 4:2FTS	N/A	N/A	5.55	5.56	687		06/10/2022 15:12
13C5 PFHxA	N/A	N/A	5.85	5.85	2236		06/10/2022 15:12
13C4 PFHpA	N/A	N/A	6.55	6.54	1917		06/10/2022 15:12
13C3 PFHxS	N/A	N/A	7.69	7.66	1977		06/10/2022 15:12
13C2 6:2FTS	N/A	N/A	6.89	6.86	1382		06/10/2022 15:12
13C8 PFOA	N/A	N/A	7.25	7.22	2921		06/10/2022 15:12
13C9 PFNA	N/A	N/A	7.94	7.90	2407		06/10/2022 15:12
13C8 PFOS	N/A	N/A	9.16	9.12	852799		06/10/2022 15:12
13C2 8:2FTS	N/A	N/A	8.25	8.20	398342		06/10/2022 15:12
13C6 PFDA	N/A	N/A	8.65	8.61	3141		06/10/2022 15:12
d3-MeFOSAA	N/A	N/A	8.50	8.46	1900		06/10/2022 15:12
13C8 PFOSA	N/A	N/A	10.92	10.88	4054		06/10/2022 15:12
d5-EtFOSAA	N/A	N/A	8.82	8.77	943		06/10/2022 15:12
13C7 PFUdA	N/A	N/A	9.36	9.31	3233		06/10/2022 15:12
13C2 PFDoA	N/A	N/A	10.05	10.01	1962		06/10/2022 15:12
13C2 PFTeDA	N/A	N/A	11.39	11.36	1625		06/10/2022 15:12
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1423		06/10/2022 15:12
d3-N-MeFOSA	N/A	N/A	12.86	12.79	1297		06/10/2022 15:12

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGT	Extraction Date	06/08/2022 10:30
Lab Sample ID	BLANK-99343	Total Amount Extracted	5.01g
Lab File ID	B220610B_004	Percent Moisture	100%
Matrix	Soil	Ical ID	220603A02
Collected	06/06/2022 12:12	CCal File	B220610B_002
Received	06/06/2022 12:12	Ending CCal File	B220610B_014
		Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.32	4.36	ND		06/10/2022 15:12
PFPeA	N/A	N/A	5.15	5.14	ND		06/10/2022 15:12
HFPO-DA	0.25	0.30	6.16	6.14	ND		06/10/2022 15:12
PFBS	0.50	0.39	6.13	6.15	ND		06/10/2022 15:12
PFHxA	0.00	0.08	5.86	5.84	ND		06/10/2022 15:12
4:2 FTS	0.00	0.96	0.00	5.56	ND		06/10/2022 15:12
PFPeS	0.00	0.43	0.00	6.89	ND		06/10/2022 15:12
PFHpA	0.28	0.26	6.56	6.50	ND		06/10/2022 15:12
DONA	0.00	0.61	0.00	6.76	ND		06/10/2022 15:12
PFHxS	0.00	0.32	0.00	7.65	ND		06/10/2022 15:12
PFOA	0.24	0.37	7.25	7.22	ND		06/10/2022 15:12
6:2 FTS	0.89	0.76	6.88	6.86	ND		06/10/2022 15:12
PFHpS	0.00	0.36	0.00	8.41	ND		06/10/2022 15:12
PFNA	0.00	0.14	0.00	7.91	ND		06/10/2022 15:12
PFOSAm	N/A	N/A	10.94	10.89	ND		06/10/2022 15:12
PFOS	0.00	0.34	0.00	9.11	ND		06/10/2022 15:12
MeFOSA	0.00	0.52	0.00	12.81	ND		06/10/2022 15:12
PFDA	0.12	0.19	8.65	8.65	ND		06/10/2022 15:12
8:2 FTS	0.00	1.00	0.00	8.25	ND		06/10/2022 15:12
9-Cl-PF3ON	0.00	0.05	0.00	9.67	ND		06/10/2022 15:12
PFNS	0.00	0.46	0.00	9.86	ND		06/10/2022 15:12
PFUnDA	0.00	0.13	0.00	9.35	ND		06/10/2022 15:12
NMeFOSAA	0.00	0.70	0.00	8.55	ND		06/10/2022 15:12
NEtFOSAA	0.00	0.77	0.00	8.77	ND		06/10/2022 15:12
PFDS	0.00	0.33	0.00	10.53	ND		06/10/2022 15:12
PFDOA	0.00	0.18	0.00	10.02	ND		06/10/2022 15:12
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		06/10/2022 15:12
PFTrDA	0.00	0.14	0.00	10.70	ND		06/10/2022 15:12
PFTDA	0.28	0.22	11.39	11.36	ND		06/10/2022 15:12

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGU	Extraction Date	06/13/2022 15:25
Lab Sample ID	BLANK-99345	Total Amount Extracted	5.00g
Lab File ID	Q220616B_059	Percent Moisture	100%
Matrix	Soil	Ical ID	220616A01
Collected	06/06/2022 12:13	CCal File	Q220616B_049
Received	06/06/2022 12:13	Ending CCal File	Q220616B_060
		Blank File	

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.10	0.10	0.02	1	375-22-4		06/17/2022 07:25
PFPeA	ND	0.10	0.10	0.02	1	2706-90-3		06/17/2022 07:25
HFPO-DA	ND	0.10	0.10	0.03	1	13252-13-6		06/17/2022 07:25
PFBS	ND	0.08	0.08	0.02	1	375-73-5		06/17/2022 07:25
PFHxA	ND	0.10	0.10	0.03	1	307-24-4		06/17/2022 07:25
4:2 FTS	ND	0.09	0.09	0.03	1	757124-72-4		06/17/2022 07:25
PFPeS	ND	0.09	0.09	0.01	1	2706-91-4		06/17/2022 07:25
PFHpA	ND	0.10	0.10	0.02	1	375-85-9		06/17/2022 07:25
DONA	ND	0.09	0.09	0.03	1	919005-14-4		06/17/2022 07:25
PFHxS	ND	0.09	0.09	0.02	1	355-46-4		06/17/2022 07:25
PFOA	ND	0.10	0.10	0.02	1	335-67-1		06/17/2022 07:25
6:2 FTS	ND	0.09	0.09	0.03	1	27619-97-2		06/17/2022 07:25
PFHpS	ND	0.09	0.09	0.02	1	375-92-8		06/17/2022 07:25
PFNA	ND	0.10	0.10	0.02	1	375-95-1		06/17/2022 07:25
PFOSAm	ND	0.10	0.10	0.02	1	754-91-6		06/17/2022 07:25
PFOS	ND	0.09	0.09	0.02	1	1763-23-1		06/17/2022 07:25
MeFOSA	ND	0.10	0.10	0.02	1	31506-32-8		06/17/2022 07:25
PFDA	ND	0.10	0.10	0.02	1	335-76-2		06/17/2022 07:25
8:2 FTS	ND	0.09	0.09	0.02	1	39108-34-4		06/17/2022 07:25
9-CI-PF3ON	ND	0.09	0.09	0.01	1	756426-58-1		06/17/2022 07:25
PFNS	ND	0.09	0.09	0.01	1	68259-12-1		06/17/2022 07:25
PFUnDA	ND	0.10	0.10	0.02	1	2058-94-8		06/17/2022 07:25
NMeFOSAA	ND	0.10	0.10	0.02	1	2355-31-9		06/17/2022 07:25
NEtFOSAA	ND	0.10	0.10	0.02	1	2991-50-6		06/17/2022 07:25
PFDS	ND	0.09	0.09	0.02	1	335-77-3		06/17/2022 07:25
PFDOA	ND	0.10	0.10	0.02	1	307-55-1		06/17/2022 07:25
11-CI-PF3OUdS	ND	0.09	0.09	0.01	1	763051-92-9		06/17/2022 07:25
PFTTrDA	ND	0.10	0.10	0.02	1	72629-94-8		06/17/2022 07:25
PFTDA	ND	0.10	0.10	0.03	1	376-06-7		06/17/2022 07:25

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGU	Extraction Date	06/13/2022 15:25
Lab Sample ID	BLANK-99345	Total Amount Extracted	5.00g
Lab File ID	Q220616B_059	Percent Moisture	100%
Matrix	Soil	Ical ID	220616A01
Collected	06/06/2022 12:13	CCal File	Q220616B_049
Received	06/06/2022 12:13	Ending CCal File	Q220616B_060
		Blank File	

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.0	0.95	95	50-150		06/17/2022 07:25
13C4 PFOA	1.0	1.0	100	50-150		06/17/2022 07:25
13C2 PFDA	1.0	1.0	104	50-150		06/17/2022 07:25
13C4 PFOS	0.96	1.1	111	50-150		06/17/2022 07:25

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.0	0.97	97	50-150		06/17/2022 07:25
13C5 PFPeA	1.0	0.97	97	50-150		06/17/2022 07:25
13C3 PFBS	0.93	0.92	99	50-150		06/17/2022 07:25
13C2 4:2FTS	0.94	0.89	95	50-150		06/17/2022 07:25
13C5 PFHxA	1.0	1.1	106	50-150		06/17/2022 07:25
13C4 PFHpA	1.0	0.98	98	50-150		06/17/2022 07:25
13C3 PFHxS	0.95	0.94	99	50-150		06/17/2022 07:25
13C2 6:2FTS	0.95	0.85	90	50-150		06/17/2022 07:25
13C8 PFOA	1.0	0.98	98	50-150		06/17/2022 07:25
13C9 PFNA	1.0	0.92	92	50-150		06/17/2022 07:25
13C8 PFOS	0.96	0.86	90	50-150		06/17/2022 07:25
13C2 8:2FTS	0.96	1.0	104	50-150		06/17/2022 07:25
13C6 PFDA	1.0	0.98	98	50-150		06/17/2022 07:25
d3-MeFOSAA	1.0	0.93	93	50-150		06/17/2022 07:25
13C8 PFOSA	1.0	0.91	91	50-150		06/17/2022 07:25
d5-EtFOSAA	1.0	1.1	108	50-150		06/17/2022 07:25
13C7 PFUdA	1.0	0.90	90	50-150		06/17/2022 07:25
13C2 PFDoA	1.0	0.93	93	50-150		06/17/2022 07:25
13C2 PFTeDA	1.0	0.83	83	50-150		06/17/2022 07:25
13C3 HFPO-DA	1.0	0.83	83	50-150		06/17/2022 07:25
d3-N-MeFOSA	1.0	0.011	1	10-150	R	06/17/2022 07:25

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGU	Extraction Date	06/13/2022 15:25
Lab Sample ID	BLANK-99345	Total Amount Extracted	5.00g
Lab File ID	Q220616B_059	Percent Moisture	100%
Matrix	Soil	Ical ID	220616A01
Collected	06/06/2022 12:13	CCal File	Q220616B_049
Received	06/06/2022 12:13	Ending CCal File	Q220616B_060
		Blank File	

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	666		06/17/2022 07:25
13C4 PFOA	N/A	N/A	7.45	7.44	809		06/17/2022 07:25
13C2 PFDA	N/A	N/A	8.75	8.79	541		06/17/2022 07:25
13C4 PFOS	N/A	N/A	9.16	9.21	703		06/17/2022 07:25

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	31		06/17/2022 07:25
13C5 PFPeA	N/A	N/A	5.50	5.53	925		06/17/2022 07:25
13C3 PFBS	N/A	N/A	6.38	6.39	50		06/17/2022 07:25
13C2 4:2FTS	N/A	N/A	5.88	5.90	77		06/17/2022 07:25
13C5 PFHxA	N/A	N/A	6.16	6.16	696		06/17/2022 07:25
13C4 PFHpA	N/A	N/A	6.80	6.79	868		06/17/2022 07:25
13C3 PFHxS	N/A	N/A	7.82	7.80	962		06/17/2022 07:25
13C2 6:2FTS	N/A	N/A	7.12	7.10	429		06/17/2022 07:25
13C8 PFOA	N/A	N/A	7.45	7.43	703		06/17/2022 07:25
13C9 PFNA	N/A	N/A	8.09	8.08	1054		06/17/2022 07:25
13C8 PFOS	N/A	N/A	9.17	9.16	521		06/17/2022 07:25
13C2 8:2FTS	N/A	N/A	8.38	8.38	437		06/17/2022 07:25
13C6 PFDA	N/A	N/A	8.75	8.75	641		06/17/2022 07:25
d3-MeFOSAA	N/A	N/A	8.65	8.65	625		06/17/2022 07:25
13C8 PFOSA	N/A	N/A	11.21	11.17	607		06/17/2022 07:25
d5-EtFOSAA	N/A	N/A	8.95	8.96	263		06/17/2022 07:25
13C7 PFUdA	N/A	N/A	9.40	9.40	46		06/17/2022 07:25
13C2 PFDoA	N/A	N/A	10.05	10.04	40		06/17/2022 07:25
13C2 PFTeDA	N/A	N/A	11.30	11.29	42		06/17/2022 07:25
13C3 HFPO-DA	N/A	N/A	6.43	6.45	766		06/17/2022 07:25
d3-N-MeFOSA	N/A	N/A	13.13	13.11	68	R	06/17/2022 07:25

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGU	Extraction Date	06/13/2022 15:25
Lab Sample ID	BLANK-99345	Total Amount Extracted	5.00g
Lab File ID	Q220616B_059	Percent Moisture	100%
Matrix	Soil	Ical ID	220616A01
Collected	06/06/2022 12:13	CCal File	Q220616B_049
Received	06/06/2022 12:13	Ending CCal File	Q220616B_060
		Blank File	

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.74	4.76	ND		06/17/2022 07:25
PFPeA	N/A	N/A	5.51	5.57	ND		06/17/2022 07:25
HFPO-DA	0.00	0.54	0.00	6.49	ND		06/17/2022 07:25
PFBS	0.49	0.31	6.39	6.44	ND		06/17/2022 07:25
PFHxA	0.00	0.08	0.00	6.20	ND		06/17/2022 07:25
4:2 FTS	0.00	1.10	0.00	5.93	ND		06/17/2022 07:25
PFPeS	0.00	0.36	0.00	7.15	ND		06/17/2022 07:25
PFHpA	0.00	0.42	0.00	6.86	ND		06/17/2022 07:25
DONA	0.00	0.49	0.00	7.10	ND		06/17/2022 07:25
PFHxS	0.00	0.33	0.00	7.81	ND		06/17/2022 07:25
PFOA	0.00	0.29	0.00	7.44	ND		06/17/2022 07:25
6:2 FTS	1.10	1.00	7.12	7.11	ND		06/17/2022 07:25
PFHpS	0.00	0.40	0.00	8.50	ND		06/17/2022 07:25
PFNA	0.00	0.23	0.00	8.08	ND		06/17/2022 07:25
PFOSAm	N/A	N/A	11.24	11.18	ND		06/17/2022 07:25
PFOS	0.28	0.25	9.19	9.17	ND		06/17/2022 07:25
MeFOSA	0.00	0.48	0.00	13.07	ND		06/17/2022 07:25
PFDA	0.00	0.13	0.00	8.74	ND		06/17/2022 07:25
8:2 FTS	0.00	1.40	0.00	8.37	ND		06/17/2022 07:25
9-Cl-PF3ON	0.00	0.03	0.00	9.64	ND		06/17/2022 07:25
PFNS	0.00	0.23	0.00	9.83	ND		06/17/2022 07:25
PFUnDA	0.00	0.17	0.00	9.40	ND		06/17/2022 07:25
NMeFOSAA	0.00	0.86	0.00	8.65	ND		06/17/2022 07:25
NEtFOSAA	0.00	0.71	0.00	8.99	ND		06/17/2022 07:25
PFDS	0.00	0.27	0.00	10.47	ND		06/17/2022 07:25
PFDOA	0.00	0.18	0.00	10.05	ND		06/17/2022 07:25
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/17/2022 07:25
PFTrDA	0.00	0.21	0.00	10.68	ND		06/17/2022 07:25
PFTDA	0.00	0.15	0.00	11.30	ND		06/17/2022 07:25

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99260	Instrument ID	10LCMS02
Run File Name	B220606A_020	Column ID	125GA90033
Analyzed	06/06/2022 15:58	Ical ID	220603A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	19	20	105	50-150	
13C4_PFOA	19	19	100	50-150	
13C2_PFDA	19	21	113	50-150	
13C4_PFOS	18	20	110	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	19	19	101	50-150	
13C5_PFPeA	19	19	102	50-150	
13C3_PFBFS	17	18	105	50-150	
13C2_4:2FTS	18	17	96	50-150	
13C5_PFHxA	19	20	108	50-150	
13C4_PFHpA	19	19	100	50-150	
13C3_PFHxS	18	18	103	50-150	
13C2_6:2FTS	18	18	98	50-150	
13C8_PFOA	19	18	97	50-150	
13C9_PFNA	19	19	101	50-150	
13C8_PFOS	18	19	104	50-150	
13C2_8:2FTS	18	18	100	50-150	
13C6_PFDA	19	19	98	50-150	
d3-MeFOSAA	19	17	90	50-150	
13C8_PFOA	19	17	89	50-150	
d5-EtFOSAA	19	18	94	50-150	
13C7_PFUdA	19	19	102	50-150	
13C2_PFDaA	19	20	107	50-150	
13C2_PFTeDA	19	17	91	50-150	
13C3_HFPO-DA	19	20	105	50-150	
d3-N-MeFOSA	19	13	67	10-150	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99260
 Run File Name B220606A_020
 Analyzed 06/06/2022 15:58
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	3.8	3.9	103	73-129		375-22-4
PFPeA	3.8	3.7	99	72-129		2706-90-3
HFPO-DA	3.8	3.6	95	70-140		13252-13-6
PFBS	3.3	3.6	108	72-130		375-73-5
PFHxA	3.8	3.8	101	72-129		307-24-4
4:2 FTS	3.5	3.4	95	63-143		757124-72-4
PFPeS	3.5	3.4	96	71-127		2706-91-4
PFHpA	3.8	3.8	101	72-130		375-85-9
DONA	3.6	3.5	99	70-140		919005-14-4
PFHxS	3.4	3.3	97	68-131		355-46-4
PFOA	3.8	3.9	104	71-133		335-67-1
6:2 FTS	3.6	4.2	116	64-140		27619-97-2
PFHpS	3.6	3.6	99	69-134		375-92-8
PFNA	3.8	3.9	103	69-130		375-95-1
PFOSAm	3.8	3.9	103	67-137		754-91-6
PFOS	3.5	3.4	99	65-140		1763-23-1
MeFOSA	3.8	3.2	85	68-141		31506-32-8
PFDA	3.8	3.7	98	71-129		335-76-2
8:2 FTS	3.6	3.2	87	67-138		39108-34-4
9-CI-PF3ON	3.5	3.1	88	70-130		756426-58-1
PFNS	3.6	3.4	95	69-127		68259-12-1
PFUnDA	3.8	3.6	95	69-133		2058-94-8
NMeFOSAA	3.8	3.7	98	65-136		2355-31-9
NEtFOSAA	3.8	3.6	96	61-135		2991-50-6
PFDS	3.6	3.5	96	53-142		335-77-3
PFDOA	3.8	3.8	101	72-134		307-55-1
11-CI-PF3OUdS	3.5	3.3	94	70-140		763051-92-9
PFTTrDA	3.8	3.4	91	65-144		72629-94-8
PFTDA	3.8	3.8	101	71-132		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.86	5.82	1985	
13C4 PFOA	N/A	N/A	7.23	7.15	2135	
13C2 PFDA	N/A	N/A	8.63	8.57	1545	
13C4 PFOS	N/A	N/A	9.15	9.07	2107	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99260
 Run File Name B220606A_020
 Analyzed 06/06/2022 15:58
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.34	4.37	2491	
13C5 PFPeA	N/A	N/A	5.15	5.15	1807	
13C3 PFBS	N/A	N/A	6.13	6.16	2338	
13C2 4:2FTS	N/A	N/A	5.56	5.56	644	
13C5 PFHxA	N/A	N/A	5.86	5.85	2330	
13C4 PFHpA	N/A	N/A	6.54	6.54	1991	
13C3 PFHxS	N/A	N/A	7.68	7.66	2319	
13C2 6:2FTS	N/A	N/A	6.87	6.86	1315	
13C8 PFOA	N/A	N/A	7.23	7.22	2424	
13C9 PFNA	N/A	N/A	7.92	7.90	3909	
13C8 PFOS	N/A	N/A	9.15	9.12	2197	
13C2 8:2FTS	N/A	N/A	8.23	8.20	7180	
13C6 PFDA	N/A	N/A	8.64	8.61	2267	
d3-MeFOSAA	N/A	N/A	8.48	8.46	3788	
13C8 PFOSA	N/A	N/A	10.90	10.88	2643	
d5-EtFOSAA	N/A	N/A	8.80	8.77	698	
13C7 PFUdA	N/A	N/A	9.34	9.31	2027	
13C2 PFDoA	N/A	N/A	10.04	10.01	1520	
13C2 PFTeDA	N/A	N/A	11.38	11.36	1310	
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1830	
d3-N-MeFOSA	N/A	N/A	12.80	12.79	1048	

REPORT OF LABORATORY ANALYSIS

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99260
 Run File Name B220606A_020
 Analyzed 06/06/2022 15:58
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.34	4.36	162	
PFPeA	N/A	N/A	5.16	5.14	540	
HFPO-DA	0.27	0.31	6.15	6.14	941	
PFBS	0.40	0.42	6.14	6.17	839	
PFHxA	0.08	0.08	5.87	5.84	319	
4:2 FTS	0.92	0.90	5.57	5.56	1889	
PFPeS	0.43	0.43	6.93	6.89	1642	
PFHpA	0.27	0.33	6.55	6.50	21	
DONA	0.66	0.65	6.80	6.76	1561	
PFHxS	0.33	0.34	7.68	7.65	1147	
PFOA	0.36	0.38	7.24	7.22	227	
6:2 FTS	0.93	0.90	6.87	6.86	593	
PFHpS	0.34	0.38	8.43	8.41	1621	
PFNA	0.15	0.15	7.93	7.91	578	
PFOSAm	N/A	N/A	10.91	10.89	998	
PFOS	0.35	0.39	9.16	9.11	345	
MeFOSA	0.55	0.56	12.82	12.77	891	
PFDA	0.17	0.17	8.64	8.59	326	
8:2 FTS	0.84	0.99	8.23	8.21	331928	
9-CI-PF3ON	0.05	0.06	9.67	9.64	1029	
PFNS	0.51	0.48	9.86	9.83	1674	
PFUnDA	0.14	0.14	9.35	9.32	392	
NMeFOSAA	0.87	0.89	8.49	8.55	837	
NEtFOSAA	0.64	0.62	8.81	8.77	264	
PFDS	0.34	0.37	10.54	10.53	1527	
PFDOA	0.17	0.17	10.04	10.02	424	
11-CI-PF3OUdS	0.02	0.02	11.03	11.01	1024	
PFTTrDA	0.15	0.17	10.73	10.70	413	
PFTDA	0.25	0.24	11.39	11.36	453	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99342	Instrument ID	10LCMS02
Run File Name	B220609B_005	Column ID	125GA90033
Analyzed	06/09/2022 23:32	Ical ID	220603A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	1.0	1.3	129	50-150	
13C4_PFOA	1.0	1.1	110	50-150	
13C2_PFDA	1.0	1.2	124	50-150	
13C4_PFOS	0.96	1.1	117	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBa	1.0	1.1	112	50-150	
13C5_PFPeA	1.0	1.1	111	50-150	
13C3_PFBs	0.93	1.0	109	50-150	
13C2_4:2Fts	0.94	1.1	114	50-150	
13C5_PFHxA	1.0	1.2	115	50-150	
13C4_PFHpA	1.0	1.1	112	50-150	
13C3_PFHxS	0.95	1.1	114	50-150	
13C2_6:2Fts	0.95	0.99	105	50-150	
13C8_PFOA	1.0	1.1	105	50-150	
13C9_PFNA	1.0	1.0	105	50-150	
13C8_PFOS	0.96	1.1	117	50-150	
13C2_8:2Fts	0.96	0.89	92	50-150	
13C6_PFDA	1.0	1.2	118	50-150	
d3-MeFOSAA	1.0	1.1	107	50-150	
13C8_PFOsA	1.0	1.1	110	50-150	
d5-EtFOSAA	1.0	1.0	102	50-150	
13C7_PFUdA	1.0	1.1	109	50-150	
13C2_PFDoA	1.0	1.1	113	50-150	
13C2_PFTeDA	1.0	0.99	99	50-150	
13C3_HFPO-DA	1.0	1.1	107	50-150	
d3-N-MeFOSA	1.0	1.0	101	10-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99342
 Run File Name B220609B_005
 Analyzed 06/09/2022 23:32
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.21	105	71-135		375-22-4
PFPeA	0.20	0.21	103	69-132		2706-90-3
HFPO-DA	0.20	0.20	100	70-140		13252-13-6
PFBS	0.18	0.18	100	72-128		375-73-5
PFHxA	0.20	0.21	107	70-132		307-24-4
4:2 FTS	0.19	0.18	98	62-145		757124-72-4
PFPeS	0.19	0.18	97	73-123		2706-91-4
PFHpA	0.20	0.21	106	71-131		375-85-9
DONA	0.19	0.19	98	70-140		919005-14-4
PFHxS	0.18	0.18	98	67-130		355-46-4
PFOA	0.20	0.21	107	69-133		335-67-1
6:2 FTS	0.19	0.19	102	64-140		27619-97-2
PFHpS	0.19	0.18	94	70-132		375-92-8
PFNA	0.20	0.22	110	72-129		375-95-1
PFOSAm	0.20	0.21	105	67-137		754-91-6
PFOS	0.18	0.17	89	68-136		1763-23-1
MeFOSA	0.20	0.20	99	70-140		31506-32-8
PFDA	0.20	0.19	96	69-133		335-76-2
8:2 FTS	0.19	0.19	100	65-137		39108-34-4
9-CI-PF3ON	0.19	0.18	94	70-140		756426-58-1
PFNS	0.19	0.19	97	69-125		68259-12-1
PFUnDA	0.20	0.21	104	64-136		2058-94-8
NMeFOSAA	0.20	0.22	112	63-144		2355-31-9
NEtFOSAA	0.20	0.21	103	61-139		2991-50-6
PFDS	0.19	0.19	97	59-134		335-77-3
PFDOA	0.20	0.20	102	69-135		307-55-1
11-CI-PF3OUdS	0.19	0.18	96	70-140		763051-92-9
PFTTrDA	0.20	0.18	92	66-139		72629-94-8
PFTDA	0.20	0.20	101	69-133		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.85	5.82	1497	
13C4 PFOA	N/A	N/A	7.28	7.15	2180	
13C2 PFDA	N/A	N/A	8.66	8.57	2756	
13C4 PFOS	N/A	N/A	9.16	9.07	2324	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99342
 Run File Name B220609B_005
 Analyzed 06/09/2022 23:32
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.31	4.37	2897	
13C5 PFPeA	N/A	N/A	5.15	5.15	1822	
13C3 PFBS	N/A	N/A	6.13	6.16	3555	
13C2 4:2FTS	N/A	N/A	5.56	5.56	611	
13C5 PFHxA	N/A	N/A	5.85	5.85	1940	
13C4 PFHpA	N/A	N/A	6.57	6.54	1826	
13C3 PFHxS	N/A	N/A	7.72	7.66	1840	
13C2 6:2FTS	N/A	N/A	6.91	6.86	17038	
13C8 PFOA	N/A	N/A	7.28	7.22	2287	
13C9 PFNA	N/A	N/A	7.97	7.97	2366	
13C8 PFOS	N/A	N/A	9.17	9.12	2543	
13C2 8:2FTS	N/A	N/A	8.27	8.20	51859	
13C6 PFDA	N/A	N/A	8.66	8.61	2249	
d3-MeFOSAA	N/A	N/A	8.51	8.46	1864	
13C8 PFOSA	N/A	N/A	10.93	10.88	2687	
d5-EtFOSAA	N/A	N/A	8.83	8.77	648	
13C7 PFUdA	N/A	N/A	9.35	9.31	2493	
13C2 PFDoA	N/A	N/A	10.05	10.01	1418	
13C2 PFTeDA	N/A	N/A	11.38	11.36	1073	
13C3 HFPO-DA	N/A	N/A	6.14	6.13	1803	
d3-N-MeFOSA	N/A	N/A	12.86	12.85	1416	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99342
 Run File Name B220609B_005
 Analyzed 06/09/2022 23:32
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.32	4.36	123	
PFPeA	N/A	N/A	5.15	5.14	428	
HFPO-DA	0.30	0.29	6.15	6.14	797	
PFBS	0.42	0.38	6.14	6.14	1018	
PFHxA	0.07	0.09	5.86	5.84	371	
4:2 FTS	0.91	0.86	5.56	5.56	1801	
PFPeS	0.37	0.40	6.96	6.89	3245	
PFHpA	0.31	0.31	6.58	6.50	20	
DONA	0.65	0.70	6.84	6.76	1265	
PFHxS	0.34	0.33	7.73	7.65	2826	
PFOA	0.35	0.35	7.29	7.22	236	
6:2 FTS	0.85	0.89	6.92	6.86	17042	
PFHpS	0.38	0.38	8.47	8.41	2667	
PFNA	0.14	0.16	7.98	7.91	643	
PFOSAm	N/A	N/A	10.94	10.89	2006	
PFOS	0.39	0.36	9.18	9.11	388	
MeFOSA	0.57	0.62	12.89	12.81	1834	
PFDA	0.17	0.15	8.67	8.59	321	
8:2 FTS	1.10	0.98	8.27	8.21	1102	
9-CI-PF3ON	0.06	0.06	9.68	9.64	1193	
PFNS	0.51	0.48	9.87	9.83	1144	
PFUnDA	0.12	0.12	9.36	9.32	461	
NMeFOSAA	0.76	0.91	8.53	8.55	202	
NEtFOSAA	0.64	0.59	8.84	8.77	255	
PFDS	0.35	0.35	10.55	10.53	1740	
PFDOA	0.16	0.17	10.05	10.02	376	
11-CI-PF3OUdS	0.02	0.02	11.03	11.01	910	
PFTTrDA	0.16	0.14	10.73	10.70	430	
PFTDA	0.24	0.23	11.38	11.36	409	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99344	Instrument ID	10LCMS02
Run File Name	B220610B_005	Column ID	125GA90033
Analyzed	06/10/2022 15:32	Ical ID	220603A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	0.99	1.1	106	50-150	
13C4_PFOA	0.99	1.0	104	50-150	
13C2_PFDA	0.99	1.1	108	50-150	
13C4_PFOS	0.95	1.1	120	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBa	0.99	1.0	102	50-150	
13C5_PFPeA	0.99	1.0	103	50-150	
13C3_PFBs	0.92	0.88	95	50-150	
13C2_4:2Fts	0.92	0.96	104	50-150	
13C5_PFHxA	0.99	1.0	103	50-150	
13C4_PFHpA	0.99	1.0	105	50-150	
13C3_PFHxS	0.94	0.94	100	50-150	
13C2_6:2Fts	0.94	0.99	106	50-150	
13C8_PFOA	0.99	1.0	102	50-150	
13C9_PFNA	0.99	1.0	105	50-150	
13C8_PFOS	0.95	1.00	105	50-150	
13C2_8:2Fts	0.95	0.96	102	50-150	
13C6_PFDA	0.99	1.0	101	50-150	
d3-MeFOSAA	0.99	1.1	111	50-150	
13C8_PFOsA	0.99	0.99	100	50-150	
d5-EtFOSAA	0.99	1.0	106	50-150	
13C7_PFUdA	0.99	1.1	108	50-150	
13C2_PFDoA	0.99	1.2	121	50-150	
13C2_PFTeDA	0.99	0.94	95	50-150	
13C3_HFPO-DA	0.99	1.0	105	50-150	
d3-N-MeFOSA	0.99	0.91	92	10-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99344
 Run File Name B220610B_005
 Analyzed 06/10/2022 15:32
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.17	85	71-135		375-22-4
PFPeA	0.20	0.17	84	69-132		2706-90-3
HFPO-DA	0.20	0.15	74	70-140		13252-13-6
PFBS	0.18	0.15	88	72-128		375-73-5
PFHxA	0.20	0.16	81	70-132		307-24-4
4:2 FTS	0.18	0.16	84	62-145		757124-72-4
PFPeS	0.19	0.15	82	73-123		2706-91-4
PFHpA	0.20	0.17	86	71-131		375-85-9
DONA	0.19	0.17	90	70-140		919005-14-4
PFHxS	0.18	0.15	82	67-130		355-46-4
PFOA	0.20	0.16	83	69-133		335-67-1
6:2 FTS	0.19	0.15	81	64-140		27619-97-2
PFHpS	0.19	0.15	78	70-132		375-92-8
PFNA	0.20	0.17	86	72-129		375-95-1
PFOSAm	0.20	0.16	82	67-137		754-91-6
PFOS	0.18	0.15	81	68-136		1763-23-1
MeFOSA	0.20	0.16	80	70-140		31506-32-8
PFDA	0.20	0.17	84	69-133		335-76-2
8:2 FTS	0.19	0.16	83	65-137		39108-34-4
9-CI-PF3ON	0.18	0.14	75	70-140		756426-58-1
PFNS	0.19	0.15	77	69-125		68259-12-1
PFUnDA	0.20	0.16	83	64-136		2058-94-8
NMeFOSAA	0.20	0.15	74	63-144		2355-31-9
NEtFOSAA	0.20	0.17	85	61-139		2991-50-6
PFDS	0.19	0.15	76	59-134		335-77-3
PFDOA	0.20	0.17	87	69-135		307-55-1
11-CI-PF3OUdS	0.19	0.14	74	70-140		763051-92-9
PFTTrDA	0.20	0.14	72	66-139		72629-94-8
PFTDA	0.20	0.16	82	69-133		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.86	5.82	1875	
13C4 PFOA	N/A	N/A	7.26	7.15	2633	
13C2 PFDA	N/A	N/A	8.65	8.57	2221	
13C4 PFOS	N/A	N/A	9.15	9.07	1720	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99344
 Run File Name B220610B_005
 Analyzed 06/10/2022 15:32
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.32	4.37	2841	
13C5 PFPeA	N/A	N/A	5.16	5.15	1969	
13C3 PFBS	N/A	N/A	6.13	6.16	1847	
13C2 4:2FTS	N/A	N/A	5.57	5.56	677	
13C5 PFHxA	N/A	N/A	5.86	5.85	1662	
13C4 PFHpA	N/A	N/A	6.56	6.54	1588	
13C3 PFHxS	N/A	N/A	7.70	7.66	2267	
13C2 6:2FTS	N/A	N/A	6.90	6.86	2608	
13C8 PFOA	N/A	N/A	7.27	7.22	3852	
13C9 PFNA	N/A	N/A	7.95	7.90	3115	
13C8 PFOS	N/A	N/A	9.15	9.12	3136	
13C2 8:2FTS	N/A	N/A	8.24	8.20	55541	
13C6 PFDA	N/A	N/A	8.65	8.61	2035	
d3-MeFOSAA	N/A	N/A	8.50	8.46	2341	
13C8 PFOSA	N/A	N/A	10.92	10.88	3682	
d5-EtFOSAA	N/A	N/A	8.81	8.77	966	
13C7 PFUdA	N/A	N/A	9.34	9.31	2267	
13C2 PFDoA	N/A	N/A	10.04	10.01	1429	
13C2 PFTeDA	N/A	N/A	11.38	11.36	1629	
13C3 HFPO-DA	N/A	N/A	6.15	6.13	1705	
d3-N-MeFOSA	N/A	N/A	12.85	12.79	1242	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99344
 Run File Name B220610B_005
 Analyzed 06/10/2022 15:32
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.33	4.36	128	
PFPeA	N/A	N/A	5.16	5.14	440	
HFPO-DA	0.30	0.30	6.16	6.14	533	
PFBS	0.38	0.39	6.14	6.15	1013	
PFHxA	0.08	0.08	5.87	5.84	303	
4:2 FTS	0.89	0.96	5.57	5.56	1759	
PFPeS	0.40	0.43	6.95	6.89	2701	
PFHpA	0.27	0.26	6.57	6.50	18	
DONA	0.57	0.61	6.83	6.76	1263	
PFHxS	0.34	0.32	7.71	7.65	1320	
PFOA	0.38	0.37	7.27	7.22	187	
6:2 FTS	0.80	0.76	6.91	6.86	29485	
PFHpS	0.34	0.36	8.44	8.41	1157	
PFNA	0.14	0.14	7.96	7.91	506	
PFOSAm	N/A	N/A	10.93	10.89	1295	
PFOS	0.37	0.34	9.16	9.11	426	
MeFOSA	0.51	0.52	12.87	12.81	140450	
PFDA	0.18	0.19	8.66	8.65	311	
8:2 FTS	0.84	1.00	8.25	8.25	2852	
9-CI-PF3ON	0.06	0.05	9.67	9.67	1170	
PFNS	0.51	0.46	9.86	9.86	867	
PFUnDA	0.12	0.13	9.34	9.35	403	
NMeFOSAA	0.99	0.70	8.51	8.55	177	
NEtFOSAA	0.62	0.77	8.82	8.77	234	
PFDS	0.34	0.33	10.54	10.53	1160	
PFDOA	0.15	0.18	10.04	10.02	372	
11-CI-PF3OUdS	0.02	0.02	11.03	11.01	793	
PFTTrDA	0.14	0.14	10.73	10.70	347	
PFTDA	0.23	0.22	11.39	11.36	386	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99346	Instrument ID	10LCMS02
Run File Name	B220620A_017	Column ID	125GA90033
Analyzed	06/20/2022 16:02	Ical ID	220616A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	1.0	1.1	111	50-150	
13C4_PFOA	1.0	1.1	107	50-150	
13C2_PFDA	1.0	1.1	105	50-150	
13C4_PFOS	0.96	1.0	107	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	1.0	0.94	94	50-150	
13C5_PFPeA	1.0	0.92	92	50-150	
13C3_PFBFS	0.93	0.87	93	50-150	
13C2_4:2FTS	0.94	0.86	92	50-150	
13C5_PFHxA	1.0	0.94	94	50-150	
13C4_PFHpA	1.0	0.92	92	50-150	
13C3_PFHxS	0.95	0.88	93	50-150	
13C2_6:2FTS	0.95	0.83	88	50-150	
13C8_PFOA	1.0	0.95	95	50-150	
13C9_PFNA	1.0	0.90	90	50-150	
13C8_PFOS	0.96	0.86	90	50-150	
13C2_8:2FTS	0.96	0.90	94	50-150	
13C6_PFDA	1.0	0.97	97	50-150	
d3-MeFOSAA	1.0	0.91	91	50-150	
13C8_PFOA	1.0	0.89	89	50-150	
d5-EtFOSAA	1.0	0.92	92	50-150	
13C7_PFUdA	1.0	0.90	90	50-150	
13C2_PFDaA	1.0	0.91	91	50-150	
13C2_PFTeDA	1.0	0.92	92	50-150	
13C3_HFPO-DA	1.0	0.88	88	50-150	
d3-N-MeFOSA	1.0	0.81	81	10-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99346
 Run File Name B220620A_017
 Analyzed 06/20/2022 16:02
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220616A02
 Level L

Native Analytes

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.22	110	71-135		375-22-4
PFPeA	0.20	0.23	114	69-132		2706-90-3
HFPO-DA	0.20	0.22	111	70-140		13252-13-6
PFBS	0.18	0.19	110	72-128		375-73-5
PFHxA	0.20	0.23	114	70-132		307-24-4
4:2 FTS	0.19	0.19	102	62-145		757124-72-4
PFPeS	0.19	0.20	109	73-123		2706-91-4
PFHpA	0.20	0.23	117	71-131		375-85-9
DONA	0.19	0.18	93	70-140		919005-14-4
PFHxS	0.18	0.18	101	67-130		355-46-4
PFOA	0.20	0.19	96	69-133		335-67-1
6:2 FTS	0.19	0.20	107	64-140		27619-97-2
PFHpS	0.19	0.22	114	70-132		375-92-8
PFNA	0.20	0.22	108	72-129		375-95-1
PFOSAm	0.20	0.21	104	67-137		754-91-6
PFOS	0.18	0.19	104	68-136		1763-23-1
MeFOSA	0.20	0.20	102	70-140		31506-32-8
PFDA	0.20	0.20	101	69-133		335-76-2
8:2 FTS	0.19	0.19	100	65-137		39108-34-4
9-CI-PF3ON	0.19	0.19	103	70-140		756426-58-1
PFNS	0.19	0.16	86	69-125		68259-12-1
PFUnDA	0.20	0.21	106	64-136		2058-94-8
NMeFOSAA	0.20	0.20	98	63-144		2355-31-9
NEtFOSAA	0.20	0.21	104	61-139		2991-50-6
PFDS	0.19	0.21	107	59-134		335-77-3
PFDOA	0.20	0.19	95	69-135		307-55-1
11-CI-PF3OUdS	0.19	0.19	99	70-140		763051-92-9
PFTTrDA	0.20	0.19	94	66-139		72629-94-8
PFTDA	0.20	0.18	90	69-133		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.80	5.81	1791	
13C4 PFOA	N/A	N/A	7.19	7.22	2126	
13C2 PFDA	N/A	N/A	8.55	8.54	2662	
13C4 PFOS	N/A	N/A	9.02	9.01	2570	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99346
 Run File Name B220620A_017
 Analyzed 06/20/2022 16:02
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220616A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.34	4.34	2271	
13C5 PFPeA	N/A	N/A	5.12	5.12	2302	
13C3 PFBS	N/A	N/A	6.06	6.07	3278	
13C2 4:2FTS	N/A	N/A	5.52	5.53	425	
13C5 PFHxA	N/A	N/A	5.80	5.81	1439	
13C4 PFHpA	N/A	N/A	6.50	6.53	1757	
13C3 PFHxS	N/A	N/A	7.61	7.59	2039	
13C2 6:2FTS	N/A	N/A	6.83	6.83	1198	
13C8 PFOA	N/A	N/A	7.19	7.17	2753	
13C9 PFNA	N/A	N/A	7.87	7.86	2665	
13C8 PFOS	N/A	N/A	9.02	9.02	1821	
13C2 8:2FTS	N/A	N/A	8.16	8.18	988	
13C6 PFDA	N/A	N/A	8.55	8.42	2891	
d3-MeFOSAA	N/A	N/A	8.42	8.27	1413	
13C8 PFOSA	N/A	N/A	10.77	10.78	3041	
d5-EtFOSAA	N/A	N/A	8.72	8.58	1058	
13C7 PFUdA	N/A	N/A	9.22	9.10	2978	
13C2 PFDoA	N/A	N/A	9.90	9.80	1464	
13C2 PFTeDA	N/A	N/A	11.24	11.13	2404	
13C3 HFPO-DA	N/A	N/A	6.09	6.09	1421	
d3-N-MeFOSA	N/A	N/A	12.68	12.70	1126	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99346
 Run File Name B220620A_017
 Analyzed 06/20/2022 16:02
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220616A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.35	4.34	128	
PFPeA	N/A	N/A	5.13	5.14	344	
HFPO-DA	0.28	0.27	6.10	6.12	519	
PFBS	0.44	0.43	6.06	6.00	632	
PFHxA	0.08	0.08	5.81	5.82	220	
4:2 FTS	0.89	0.91	5.53	5.47	1099	
PFPeS	0.40	0.39	6.86	6.89	996	
PFHpA	0.30	0.29	6.51	6.39	23	
DONA	0.59	0.55	6.76	6.77	1362	
PFHxS	0.35	0.36	7.61	7.61	1029	
PFOA	0.38	0.37	7.20	7.21	251	
6:2 FTS	0.75	0.91	6.84	6.85	395	
PFHpS	0.38	0.40	8.33	8.33	2990	
PFNA	0.13	0.14	7.88	7.87	691	
PFOSAm	N/A	N/A	10.78	10.78	399	
PFOS	0.39	0.38	9.03	9.03	491	
MeFOSA	0.55	0.53	12.70	12.72	420	
PFDA	0.18	0.18	8.56	8.55	322	
8:2 FTS	0.90	0.95	8.17	8.17	81910	
9-CI-PF3ON	0.06	0.06	9.53	9.38	972	
PFNS	0.53	0.59	9.71	9.71	1006	
PFUnDA	0.13	0.14	9.23	9.22	440	
NMeFOSAA	0.87	0.84	8.43	8.42	948	
NEtFOSAA	0.57	0.67	8.73	8.73	207	
PFDS	0.34	0.36	10.38	10.39	1692	
PFDOA	0.17	0.16	9.91	9.80	444	
11-CI-PF3OUdS	0.02	0.02	10.87	10.77	758	
PFTTrDA	0.15	0.14	10.59	10.61	397	
PFTDA	0.25	0.25	11.24	11.25	365	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MS
 Run File Name B220609B_027
 Analyzed 06/10/2022 06:52
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	1.1	1.3	123	50-150	
13C4_PFOA	1.1	1.2	116	50-150	
13C2_PFDA	1.1	1.3	125	50-150	
13C4_PFOS	1.0	1.3	125	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	1.1	1.2	111	50-150	
13C5_PFPeA	1.1	1.2	112	50-150	
13C3_PFBFS	0.99	1.2	119	50-150	
13C2_4:2FTS	1.00	1.2	119	50-150	
13C5_PFHxA	1.1	1.3	120	50-150	
13C4_PFHpA	1.1	1.2	110	50-150	
13C3_PFHxS	1.0	1.2	121	50-150	
13C2_6:2FTS	1.0	1.2	120	50-150	
13C8_PFOA	1.1	1.2	115	50-150	
13C9_PFNA	1.1	1.2	117	50-150	
13C8_PFOS	1.0	1.3	124	50-150	
13C2_8:2FTS	1.0	1.1	109	50-150	
13C6_PFDA	1.1	1.2	113	50-150	
d3-MeFOSAA	1.1	1.1	103	50-150	
13C8_PFOSA	1.1	1.2	114	25-150	
d5-EtFOSAA	1.1	1.2	113	50-150	
13C7_PFUdA	1.1	1.1	107	50-150	
13C2_PFDoA	1.1	1.2	117	50-150	
13C2_PFTeDA	1.1	1.2	114	50-150	
13C3_HFPO-DA	1.1	1.3	121	50-150	
d3-N-MeFOSA	1.1	0.28	26	10-150	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MS
 Run File Name B220609B_027
 Analyzed 06/10/2022 06:52
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Native Analytes

Compound	Sample Conc.	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.00	0.21	0.25	115	70-140		375-22-4
PFPeA	0.00	0.21	0.24	114	70-140		2706-90-3
HFPO-DA	0.00	0.21	0.20	93	70-140		13252-13-6
PFBS	0.00	0.19	0.18	95	70-140		375-73-5
PFHxA	0.00	0.21	0.22	102	70-140		307-24-4
4:2 FTS	0.00	0.20	0.19	97	70-140		757124-72-4
PFPeS	0.00	0.20	0.18	91	70-140		2706-91-4
PFHpA	0.00	0.21	0.23	106	70-140		375-85-9
DONA	0.00	0.20	0.19	94	70-140		919005-14-4
PFHxS	0.00	0.19	0.18	92	70-140		355-46-4
PFOA	0.00	0.21	0.22	103	70-140		335-67-1
6:2 FTS	0.00	0.20	0.21	103	70-140		27619-97-2
PFHpS	0.00	0.20	0.17	86	70-140		375-92-8
PFNA	0.00	0.21	0.23	107	70-140		375-95-1
PFOSAm	0.00	0.21	0.19	90	70-140		754-91-6
PFOS	0.00	0.20	0.21	108	70-140		1763-23-1
MeFOSA	0.00	0.21	0.18	85	70-140		31506-32-8
PFDA	0.00	0.21	0.23	108	70-140		335-76-2
8:2 FTS	0.00	0.20	0.19	92	70-140		39108-34-4
9-CI-PF3ON	0.00	0.20	0.18	91	70-140		756426-58-1
PFNS	0.00	0.20	0.20	98	70-140		68259-12-1
PFUnDA	0.00	0.21	0.22	105	70-140		2058-94-8
NMeFOSAA	0.00	0.21	0.21	99	70-140		2355-31-9
NEtFOSAA	0.00	0.21	0.24	112	70-140		2991-50-6
PFDS	0.00	0.21	0.20	99	70-140		335-77-3
PFDOA	0.00	0.21	0.22	104	70-140		307-55-1
11-CI-PF3OUdS	0.00	0.20	0.19	92	70-140		763051-92-9
PFTTrDA	0.00	0.21	0.20	92	70-140		72629-94-8
PFTDA	0.00	0.21	0.21	98	70-140		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.87	5.82	1768	
13C4 PFOA	N/A	N/A	7.25	7.15	2128	
13C2 PFDA	N/A	N/A	8.64	8.57	1742	
13C4 PFOS	N/A	N/A	9.14	9.07	1359	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MS
 Run File Name B220609B_027
 Analyzed 06/10/2022 06:52
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.32	4.37	2529	
13C5 PFPeA	N/A	N/A	5.17	5.15	1738	
13C3 PFBS	N/A	N/A	6.14	6.16	2023	
13C2 4:2FTS	N/A	N/A	5.58	5.56	558	
13C5 PFHxA	N/A	N/A	5.88	5.85	1988	
13C4 PFHpA	N/A	N/A	6.57	6.54	1673	
13C3 PFHxS	N/A	N/A	7.69	7.66	2214	
13C2 6:2FTS	N/A	N/A	6.90	6.86	1152	
13C8 PFOA	N/A	N/A	7.25	7.22	2453	
13C9 PFNA	N/A	N/A	7.95	7.90	2633	
13C8 PFOS	N/A	N/A	9.14	9.12	4101	
13C2 8:2FTS	N/A	N/A	8.25	8.20	3199	
13C6 PFDA	N/A	N/A	8.64	8.61	2123	
d3-MeFOSAA	N/A	N/A	8.50	8.46	1839	
13C8 PFOSA	N/A	N/A	10.91	10.88	2894	
d5-EtFOSAA	N/A	N/A	8.81	8.77	840	
13C7 PFUdA	N/A	N/A	9.33	9.31	3303	
13C2 PFDoA	N/A	N/A	10.03	10.01	1332	
13C2 PFTeDA	N/A	N/A	11.37	11.36	1202	
13C3 HFPO-DA	N/A	N/A	6.16	6.13	1725	
d3-N-MeFOSA	N/A	N/A	12.85	12.85	1239	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MS
 Run File Name B220609B_027
 Analyzed 06/10/2022 06:52
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.33	4.36	139	
PFPeA	N/A	N/A	5.17	5.14	402	
HFPO-DA	0.30	0.28	6.17	6.14	776	
PFBS	0.43	0.44	6.15	6.14	854	
PFHxA	0.08	0.08	5.88	5.84	346	
4:2 FTS	0.91	0.97	5.59	5.56	32323	
PFPeS	0.40	0.39	6.95	6.89	1218	
PFHpA	0.29	0.28	6.58	6.50	19	
DONA	0.60	0.58	6.82	6.76	1630	
PFHxS	0.36	0.34	7.70	7.65	830	
PFOA	0.37	0.35	7.26	7.22	211	
6:2 FTS	0.86	1.00	6.90	6.86	1551	
PFHpS	0.42	0.35	8.44	8.41	1069	
PFNA	0.13	0.15	7.95	7.91	743	
PFOSAm	N/A	N/A	10.92	10.89	934	
PFOS	0.37	0.36	9.15	9.11	461	
MeFOSA	0.56	0.64	12.88	12.81	2536	
PFDA	0.16	0.17	8.65	8.59	290	
8:2 FTS	1.10	0.98	8.25	8.21	2606	
9-CI-PF3ON	0.06	0.05	9.66	9.64	929	
PFNS	0.45	0.49	9.84	9.83	998	
PFUnDA	0.14	0.14	9.34	9.32	476	
NMeFOSAA	0.83	0.84	8.51	8.55	204	
NEtFOSAA	0.58	0.66	8.82	8.77	290	
PFDS	0.33	0.36	10.53	10.53	1253	
PFDOA	0.17	0.17	10.03	10.02	465	
11-CI-PF3OUdS	0.02	0.02	11.02	11.01	954	
PFTTrDA	0.17	0.15	10.71	10.70	448	
PFTDA	0.25	0.23	11.37	11.36	542	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MSD
 Run File Name B220609B_028
 Analyzed 06/10/2022 07:12
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers
13C2_PFHxA	1.1	1.1	105	50-150	15.5	
13C4_PFOA	1.1	1.2	112	50-150	3.5	
13C2_PFDA	1.1	1.2	113	50-150	9.4	
13C4_PFOS	1.0	1.1	107	50-150	15.8	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers
13C4_PFBa	1.1	1.1	98	50-150	12.6	
13C5_PFPeA	1.1	1.1	101	50-150	9.6	
13C3_PFBs	0.99	1.1	106	50-150	10.8	
13C2_4:2Fts	1.0	1.2	115	50-150	3.2	
13C5_PFHxA	1.1	1.2	109	50-150	9.9	
13C4_PFHpA	1.1	1.1	100	50-150	9.3	
13C3_PFHxS	1.0	1.1	106	50-150	13.3	
13C2_6:2Fts	1.0	1.2	118	50-150	1.3	
13C8_PFOA	1.1	1.0	98	50-150	16.0	
13C9_PFNA	1.1	1.1	105	50-150	10.5	
13C8_PFOS	1.0	1.1	108	50-150	13.1	
13C2_8:2Fts	1.0	1.0	98	50-150	11.2	
13C6_PFDA	1.1	1.1	102	50-150	9.8	
d3-MeFOSAA	1.1	1.0	95	50-150	8.1	
13C8_PFOsA	1.1	0.90	84	25-150	29.4	
d5-EtFOSAA	1.1	1.0	95	50-150	17.2	
13C7_PFUdA	1.1	1.1	106	50-150	1.0	
13C2_PFDaA	1.1	1.1	105	50-150	10.7	
13C2_PFTeDA	1.1	1.1	105	50-150	8.5	
13C3_HFPO-DA	1.1	1.1	103	50-150	15.9	
d3-N-MeFOSA	1.1	0.059	5	10-150	130.3	R

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MSD
 Run File Name B220609B_028
 Analyzed 06/10/2022 07:12
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Native Analytes

Compound	Sample Conc.	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers	CAS No.
PFBA	0.00	0.21	0.27	125	70-140	8.1		375-22-4
PFPeA	0.00	0.21	0.25	117	70-140	2.7		2706-90-3
HFPO-DA	0.00	0.21	0.21	100	70-140	8.1		13252-13-6
PFBS	0.00	0.19	0.17	92	70-140	3.7		375-73-5
PFHxA	0.00	0.21	0.23	107	70-140	4.3		307-24-4
4:2 FTS	0.00	0.20	0.19	93	70-140	4.6		757124-72-4
PFPeS	0.00	0.20	0.18	91	70-140	0.3		2706-91-4
PFHpA	0.00	0.21	0.23	109	70-140	2.6		375-85-9
DONA	0.00	0.20	0.21	104	70-140	9.9		919005-14-4
PFHxS	0.00	0.19	0.20	101	70-140	9.7		355-46-4
PFOA	0.00	0.21	0.24	113	70-140	9.2		335-67-1
6:2 FTS	0.00	0.20	0.19	93	70-140	9.9		27619-97-2
PFHpS	0.00	0.20	0.19	94	70-140	9.0		375-92-8
PFNA	0.00	0.21	0.25	115	70-140	7.1		375-95-1
PFOSAm	0.00	0.21	0.22	102	70-140	11.7		754-91-6
PFOS	0.00	0.20	0.22	110	70-140	2.4		1763-23-1
MeFOSA	0.00	0.21	0.17	78	70-140	9.3		31506-32-8
PFDA	0.00	0.21	0.23	108	70-140	0.3		335-76-2
8:2 FTS	0.00	0.21	0.19	93	70-140	1.6		39108-34-4
9-CI-PF3ON	0.00	0.20	0.19	96	70-140	5.2		756426-58-1
PFNS	0.00	0.21	0.19	91	70-140	6.9		68259-12-1
PFUnDA	0.00	0.21	0.21	100	70-140	4.8		2058-94-8
NMeFOSAA	0.00	0.21	0.21	96	70-140	3.7		2355-31-9
NEtFOSAA	0.00	0.21	0.24	111	70-140	1.1		2991-50-6
PFDS	0.00	0.21	0.19	94	70-140	5.1		335-77-3
PFDOA	0.00	0.21	0.22	101	70-140	2.4		307-55-1
11-CI-PF3OUdS	0.00	0.20	0.18	89	70-140	3.4		763051-92-9
PFTTrDA	0.00	0.21	0.21	97	70-140	5.5		72629-94-8
PFTDA	0.00	0.21	0.21	96	70-140	2.4		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.87	5.82	1605	
13C4 PFOA	N/A	N/A	7.27	7.15	3616	
13C2 PFDA	N/A	N/A	8.65	8.57	1725	
13C4 PFOS	N/A	N/A	9.15	9.07	1446	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MSD
 Run File Name B220609B_028
 Analyzed 06/10/2022 07:12
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.33	4.37	2980	
13C5 PFPeA	N/A	N/A	5.16	5.15	1898	
13C3 PFBS	N/A	N/A	6.14	6.16	1996	
13C2 4:2FTS	N/A	N/A	5.58	5.56	558	
13C5 PFHxA	N/A	N/A	5.87	5.85	1908	
13C4 PFHpA	N/A	N/A	6.58	6.54	1724	
13C3 PFHxS	N/A	N/A	7.71	7.66	2463	
13C2 6:2FTS	N/A	N/A	6.91	6.86	901	
13C8 PFOA	N/A	N/A	7.27	7.22	2664	
13C9 PFNA	N/A	N/A	7.96	7.90	1923	
13C8 PFOS	N/A	N/A	9.15	9.12	2091	
13C2 8:2FTS	N/A	N/A	8.26	8.20	2367	
13C6 PFDA	N/A	N/A	8.65	8.61	1709	
d3-MeFOSAA	N/A	N/A	8.51	8.46	1612	
13C8 PFOSA	N/A	N/A	10.92	10.88	2709	
d5-EtFOSAA	N/A	N/A	8.81	8.77	853	
13C7 PFUdA	N/A	N/A	9.33	9.31	2362	
13C2 PFDoA	N/A	N/A	10.04	10.01	1794	
13C2 PFTeDA	N/A	N/A	11.38	11.36	1521	
13C3 HFPO-DA	N/A	N/A	6.16	6.13	1337	
d3-N-MeFOSA	N/A	N/A	12.85	12.85	394	R

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490009-MSD
 Run File Name B220609B_028
 Analyzed 06/10/2022 07:12
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220603A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.33	4.36	103	
PFPeA	N/A	N/A	5.17	5.14	361	
HFPO-DA	0.30	0.28	6.17	6.14	933	
PFBS	0.45	0.44	6.15	6.14	723	
PFHxA	0.08	0.08	5.88	5.84	322	
4:2 FTS	0.94	0.97	5.58	5.56	1434	
PFPeS	0.42	0.39	6.96	6.96	758	
PFHpA	0.31	0.28	6.59	6.50	25	
DONA	0.61	0.58	6.84	6.76	1390	
PFHxS	0.31	0.34	7.72	7.65	1006	
PFOA	0.39	0.35	7.28	7.22	216	
6:2 FTS	0.90	1.00	6.92	6.86	1257	
PFHpS	0.41	0.35	8.45	8.41	1031	
PFNA	0.13	0.15	7.97	7.91	689	
PFOSAm	N/A	N/A	10.93	10.89	971	
PFOS	0.38	0.36	9.16	9.11	493	
MeFOSA	0.74	0.64	12.88	12.81	588	
PFDA	0.18	0.17	8.66	8.59	272	
8:2 FTS	1.00	0.98	8.26	8.21	63063	
9-Cl-PF3ON	0.05	0.05	9.66	9.64	1192	
PFNS	0.53	0.49	9.85	9.83	1127	
PFUnDA	0.13	0.14	9.34	9.32	465	
NMeFOSAA	0.74	0.84	8.51	8.55	180671	
NEtFOSAA	0.68	0.66	8.82	8.77	315	
PFDS	0.37	0.36	10.54	10.53	1144	
PFDOA	0.18	0.17	10.04	10.02	350	
11-Cl-PF3OUdS	0.02	0.02	11.02	11.01	901	
PFTTrDA	0.16	0.15	10.72	10.70	487	
PFTDA	0.24	0.23	11.38	11.36	359	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MS
 Run File Name B220614A_035
 Analyzed 06/14/2022 21:54
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	1.1	1.3	113	50-150	
13C4_PFOA	1.1	1.2	110	50-150	
13C2_PFDA	1.1	1.4	128	50-150	
13C4_PFOS	1.1	1.2	113	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBA	1.1	1.1	95	50-150	
13C5_PFPeA	1.1	1.1	102	50-150	
13C3_PFBFS	1.0	1.1	109	50-150	
13C2_4:2FTS	1.0	1.2	117	50-150	
13C5_PFHxA	1.1	1.2	106	50-150	
13C4_PFHpA	1.1	1.1	98	50-150	
13C3_PFHxS	1.0	1.2	111	50-150	
13C2_6:2FTS	1.0	1.2	119	50-150	
13C8_PFOA	1.1	1.2	107	50-150	
13C9_PFNA	1.1	1.2	109	50-150	
13C8_PFOS	1.1	1.2	112	50-150	
13C2_8:2FTS	1.1	1.2	110	50-150	
13C6_PFDA	1.1	1.2	104	50-150	
d3-MeFOSAA	1.1	1.3	116	50-150	
13C8_PFOSA	1.1	1.1	100	25-150	
d5-EtFOSAA	1.1	1.3	115	50-150	
13C7_PFUdA	1.1	1.3	113	50-150	
13C2_PFDaA	1.1	1.4	131	50-150	
13C2_PFTeDA	1.1	1.4	129	50-150	
13C3_HFPO-DA	1.1	1.1	100	50-150	
d3-N-MeFOSA	1.1	0.84	76	10-150	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MS
 Run File Name B220614A_035
 Analyzed 06/14/2022 21:54
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Native Analytes

Compound	Sample Conc.	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.00	0.22	0.27	121	70-140		375-22-4
PFPeA	0.00	0.22	0.33	149	70-140	R	2706-90-3
HFPO-DA	0.00	0.22	0.20	91	70-140		13252-13-6
PFBS	0.00	0.20	0.19	95	70-140		375-73-5
PFHxA	0.00	0.22	0.29	131	70-140		307-24-4
4:2 FTS	0.00	0.21	0.20	97	70-140		757124-72-4
PFPeS	0.00	0.21	0.19	92	70-140		2706-91-4
PFHpA	0.00	0.22	0.27	120	70-140		375-85-9
DONA	0.00	0.21	0.19	93	70-140		919005-14-4
PFHxS	0.00	0.20	0.23	115	70-140		355-46-4
PFOA	0.00	0.22	0.23	104	70-140		335-67-1
6:2 FTS	0.00	0.21	0.20	93	70-140		27619-97-2
PFHpS	0.00	0.21	0.18	87	70-140		375-92-8
PFNA	0.00	0.22	0.23	103	70-140		375-95-1
PFOSAm	0.00	0.22	0.22	98	70-140		754-91-6
PFOS	0.16	0.20	0.34	86	70-140		1763-23-1
MeFOSA	0.00	0.22	0.21	95	70-140		31506-32-8
PFDA	0.00	0.22	0.24	110	70-140		335-76-2
8:2 FTS	0.00	0.21	0.19	90	70-140		39108-34-4
9-CI-PF3ON	0.00	0.21	0.19	93	70-140		756426-58-1
PFNS	0.00	0.21	0.20	96	70-140		68259-12-1
PFUnDA	0.00	0.22	0.23	104	70-140		2058-94-8
NMeFOSAA	0.00	0.22	0.22	99	70-140		2355-31-9
NEtFOSAA	0.00	0.22	0.20	89	70-140		2991-50-6
PFDS	0.00	0.21	0.19	90	70-140		335-77-3
PFDOA	0.00	0.22	0.20	90	70-140		307-55-1
11-CI-PF3OUdS	0.00	0.21	0.18	85	70-140		763051-92-9
PFTTrDA	0.00	0.22	0.20	89	70-140		72629-94-8
PFTDA	0.00	0.22	0.21	96	70-140		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.76	5.73	1558	
13C4 PFOA	N/A	N/A	7.07	7.04	1609	
13C2 PFDA	N/A	N/A	8.42	8.39	1270	
13C4 PFOS	N/A	N/A	8.90	8.88	1549	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MS
 Run File Name B220614A_035
 Analyzed 06/14/2022 21:54
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.38	4.37	3040	
13C5 PFPeA	N/A	N/A	5.14	5.15	2504	
13C3 PFBS	N/A	N/A	6.02	5.99	1815	
13C2 4:2FTS	N/A	N/A	5.50	5.46	623	
13C5 PFHxA	N/A	N/A	5.76	5.73	2221	
13C4 PFHpA	N/A	N/A	6.41	6.38	1837	
13C3 PFHxS	N/A	N/A	7.49	7.47	1270	
13C2 6:2FTS	N/A	N/A	6.73	6.70	1077	
13C8 PFOA	N/A	N/A	7.07	7.04	1589	
13C9 PFNA	N/A	N/A	7.74	7.71	2378	
13C8 PFOS	N/A	N/A	8.90	8.88	1392	
13C2 8:2FTS	N/A	N/A	8.03	8.01	2019	
13C6 PFDA	N/A	N/A	8.42	8.40	1942	
d3-MeFOSAA	N/A	N/A	8.28	8.26	1411	
13C8 PFOSA	N/A	N/A	10.65	10.63	2199	
d5-EtFOSAA	N/A	N/A	8.59	8.56	1383	
13C7 PFUdA	N/A	N/A	9.10	9.08	1852	
13C2 PFDoA	N/A	N/A	9.79	9.76	1263	
13C2 PFTeDA	N/A	N/A	11.11	11.07	973	
13C3 HFPO-DA	N/A	N/A	6.03	6.00	1513	
d3-N-MeFOSA	N/A	N/A	12.58	12.56	602	

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MS
 Run File Name B220614A_035
 Analyzed 06/14/2022 21:54
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.38	4.36	170	
PFPeA	N/A	N/A	5.14	5.14	435	R
HFPO-DA	0.31	0.26	6.04	6.02	534	
PFBS	0.42	0.36	6.02	6.00	697	
PFHxA	0.08	0.09	5.77	5.74	237	
4:2 FTS	0.90	0.99	5.50	5.47	924	
PFPeS	0.43	0.45	6.78	6.75	834	
PFHpA	0.33	0.34	6.42	6.39	20	
DONA	0.58	0.60	6.66	6.63	1446	
PFHxS	0.33	0.35	7.50	7.47	814	
PFOA	0.36	0.41	7.08	7.05	217	
6:2 FTS	0.96	0.87	6.73	6.70	197	
PFHpS	0.38	0.35	8.22	8.19	632	
PFNA	0.14	0.12	7.75	7.72	423	
PFOSAm	N/A	N/A	10.66	10.64	866	
PFOS	0.36	0.40	8.92	8.88	372	
MeFOSA	0.57	0.57	12.61	12.59	444	
PFDA	0.18	0.19	8.43	8.41	256	
8:2 FTS	0.93	0.82	8.03	8.01	1037	
9-CI-PF3ON	0.05	0.07	9.41	9.38	1766	
PFNS	0.50	0.51	9.60	9.57	935	
PFUnDA	0.13	0.14	9.11	9.08	388	
NMeFOSAA	0.74	0.74	8.29	8.27	230	
NEtFOSAA	0.62	0.60	8.60	8.58	204	
PFDS	0.34	0.35	10.28	10.24	961	
PFDOA	0.18	0.19	9.79	9.76	459	
11-CI-PF3OUdS	0.02	0.02	10.75	10.72	806	
PFTTrDA	0.15	0.13	10.47	10.43	438	
PFTDA	0.22	0.22	11.12	11.08	372	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MSD
 Run File Name B220614A_036
 Analyzed 06/14/2022 22:14
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers
13C2_PFHxA	1.1	1.3	118	50-150	3.5	
13C4_PFOA	1.1	1.2	112	50-150	2.1	
13C2_PFDA	1.1	1.6	146	50-150	12.7	
13C4_PFOS	1.0	1.2	116	50-150	2.6	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers
13C4_PFBFA	1.1	1.0	97	50-150	1.2	
13C5_PFPeA	1.1	1.1	99	50-150	2.1	
13C3_PFBFS	1.0	1.1	106	50-150	2.4	
13C2_4:2FTS	1.0	1.2	119	50-150	1.4	
13C5_PFHxA	1.1	1.2	112	50-150	5.1	
13C4_PFHpA	1.1	1.1	100	50-150	1.7	
13C3_PFHxS	1.0	1.1	110	50-150	1.2	
13C2_6:2FTS	1.0	1.1	111	50-150	6.5	
13C8_PFOA	1.1	1.1	107	50-150	0.3	
13C9_PFNA	1.1	1.2	111	50-150	2.1	
13C8_PFOS	1.0	1.2	114	50-150	2.0	
13C2_8:2FTS	1.0	1.1	107	50-150	2.4	
13C6_PFDA	1.1	1.3	117	50-150	11.7	
d3-MeFOSAA	1.1	1.2	116	50-150	0.5	
13C8_PFOSA	1.1	1.0	97	25-150	3.1	
d5-EtFOSAA	1.1	1.3	119	50-150	3.6	
13C7_PFUdA	1.1	1.3	120	50-150	5.8	
13C2_PFDaA	1.1	1.3	123	50-150	6.2	
13C2_PFTeDA	1.1	1.5	140	50-150	8.8	
13C3_HFPO-DA	1.1	1.1	105	50-150	5.5	
d3-N-MeFOSA	1.1	0.12	11	10-150	150.9	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MSD
 Run File Name B220614A_036
 Analyzed 06/14/2022 22:14
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Native Analytes

Compound	Sample Conc.	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers	CAS No.
PFBA	0.00	0.22	0.27	127	70-140	4.6		375-22-4
PFPeA	0.00	0.22	0.33	155	70-140	4.1	R	2706-90-3
HFPO-DA	0.00	0.22	0.21	95	70-140	5.2		13252-13-6
PFBS	0.00	0.19	0.21	111	70-140	15.6		375-73-5
PFHxA	0.00	0.22	0.28	128	70-140	1.8		307-24-4
4:2 FTS	0.00	0.20	0.20	98	70-140	0.8		757124-72-4
PFPeS	0.00	0.20	0.21	105	70-140	12.6		2706-91-4
PFHpA	0.00	0.22	0.28	130	70-140	8.4		375-85-9
DONA	0.00	0.20	0.20	98	70-140	5.1		919005-14-4
PFHxS	0.00	0.20	0.24	120	70-140	4.4		355-46-4
PFOA	0.00	0.22	0.23	108	70-140	3.7		335-67-1
6:2 FTS	0.00	0.21	0.24	115	70-140	21.1		27619-97-2
PFHpS	0.00	0.21	0.18	88	70-140	1.4		375-92-8
PFNA	0.00	0.22	0.24	111	70-140	7.0		375-95-1
PFOSAm	0.00	0.22	0.22	103	70-140	5.4		754-91-6
PFOS	0.16	0.20	0.34	88	70-140	2.7		1763-23-1
MeFOSA	0.00	0.22	0.20	94	70-140	0.2		31506-32-8
PFDA	0.00	0.22	0.24	113	70-140	2.5		335-76-2
8:2 FTS	0.00	0.21	0.22	106	70-140	16.1		39108-34-4
9-CI-PF3ON	0.00	0.20	0.19	93	70-140	0.4		756426-58-1
PFNS	0.00	0.21	0.21	104	70-140	8.0		68259-12-1
PFUnDA	0.00	0.22	0.23	105	70-140	0.5		2058-94-8
NMeFOSAA	0.00	0.22	0.21	99	70-140	0.5		2355-31-9
NEtFOSAA	0.00	0.22	0.22	100	70-140	11.6		2991-50-6
PFDS	0.00	0.21	0.20	94	70-140	5.1		335-77-3
PFDOA	0.00	0.22	0.24	109	70-140	18.6		307-55-1
11-CI-PF3OUdS	0.00	0.20	0.19	95	70-140	11.6		763051-92-9
PFTTrDA	0.00	0.22	0.22	100	70-140	11.3		72629-94-8
PFTDA	0.00	0.22	0.21	97	70-140	1.1		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.77	5.73	1853	
13C4 PFOA	N/A	N/A	7.07	7.04	2239	
13C2 PFDA	N/A	N/A	8.42	8.39	1799	
13C4 PFOS	N/A	N/A	8.90	8.88	1898	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MSD
 Run File Name B220614A_036
 Analyzed 06/14/2022 22:14
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.38	4.37	3387	
13C5 PFPeA	N/A	N/A	5.14	5.15	2405	
13C3 PFBS	N/A	N/A	6.02	5.99	2107	
13C2 4:2FTS	N/A	N/A	5.50	5.46	497	
13C5 PFHxA	N/A	N/A	5.77	5.73	1517	
13C4 PFHpA	N/A	N/A	6.42	6.38	1739	
13C3 PFHxS	N/A	N/A	7.50	7.47	1192	
13C2 6:2FTS	N/A	N/A	6.73	6.70	1047	
13C8 PFOA	N/A	N/A	7.07	7.04	2060	
13C9 PFNA	N/A	N/A	7.74	7.71	1696	
13C8 PFOS	N/A	N/A	8.90	8.88	2435	
13C2 8:2FTS	N/A	N/A	8.03	8.01	3363	
13C6 PFDA	N/A	N/A	8.42	8.40	1816	
d3-MeFOSAA	N/A	N/A	8.29	8.26	1313	
13C8 PFOSA	N/A	N/A	10.65	10.63	1891	
d5-EtFOSAA	N/A	N/A	8.59	8.56	1142	
13C7 PFUdA	N/A	N/A	9.10	9.08	2448	
13C2 PFDoA	N/A	N/A	9.79	9.76	1172	
13C2 PFTeDA	N/A	N/A	11.11	11.07	1509	
13C3 HFPO-DA	N/A	N/A	6.04	6.00	1208	
d3-N-MeFOSA	N/A	N/A	12.58	12.56	395	

REPORT OF LABORATORY ANALYSIS

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609490032-MSD
 Run File Name B220614A_036
 Analyzed 06/14/2022 22:14
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.39	4.36	128	
PFPeA	N/A	N/A	5.14	5.14	514	R
HFPO-DA	0.26	0.26	6.05	6.02	430	
PFBS	0.38	0.36	6.03	6.00	707	
PFHxA	0.09	0.09	5.78	5.74	217	
4:2 FTS	0.90	0.99	5.50	5.47	1139	
PFPeS	0.42	0.45	6.78	6.75	1061	
PFHpA	0.32	0.34	6.42	6.39	20	
DONA	0.61	0.60	6.66	6.63	1290	
PFHxS	0.34	0.35	7.50	7.47	1445	
PFOA	0.39	0.41	7.08	7.05	207	
6:2 FTS	0.81	0.87	6.73	6.70	214	
PFHpS	0.40	0.35	8.22	8.19	878	
PFNA	0.13	0.12	7.75	7.72	522	
PFOSAm	N/A	N/A	10.66	10.64	859	
PFOS	0.37	0.40	8.92	8.88	290	
MeFOSA	0.55	0.57	12.60	12.59	355	
PFDA	0.17	0.19	8.43	8.41	307	
8:2 FTS	0.95	0.82	8.04	8.01	600	
9-CI-PF3ON	0.06	0.07	9.41	9.38	1117	
PFNS	0.46	0.51	9.60	9.57	1146	
PFUnDA	0.14	0.14	9.11	9.08	529	
NMeFOSAA	0.86	0.74	8.30	8.27	3616	
NEtFOSAA	0.62	0.60	8.60	8.58	249	
PFDS	0.34	0.35	10.27	10.24	1060	
PFDOA	0.16	0.19	9.79	9.76	508	
11-CI-PF3OUdS	0.02	0.02	10.75	10.72	965	
PFTTrDA	0.16	0.13	10.46	10.43	441	
PFTDA	0.26	0.22	11.12	11.08	344	

REPORT OF LABORATORY ANALYSIS

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Report Prepared for:

Client Services
Pace Analytical National
12065 Lebanon Road
Mount Juliet TN 37122

**REPORT OF
LABORATORY
ANALYSIS
FOR PFAAs**

Report Prepared Date:

August 19, 2022

Report Information:

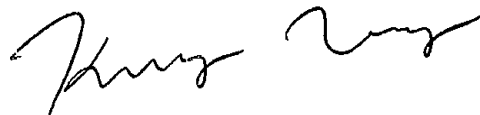
Pace Project #: 10609607
Sample Receipt Date: 05/21/2022
Client Project #: L1496014 WG1867270
Client Sub PO #: L1496014
State Cert #: N/A

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PFAA Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Kongmeng Vang, your Pace Project Manager.

This report has been reviewed by:



August 19, 2022

Kongmeng Vang, Project Manager
(612) 607-6382
(612) 607-6333 (fax)



Report of Laboratory Analysis

This report should not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

The results relate only to the samples included in this report.

DISCUSSION

This report presents the results from the analyses performed on thirty-nine samples, one matrix spike, and one matrix spike duplicate submitted by a representative of Pace Analytical National. The samples were analyzed for twenty-nine perfluorinated compounds using DOD QSM 5.3 for PFAS. Reporting limits were set to quantification limits. The samples were received outside the temperature range specified in the method (0-6° C). The analysis was completed upon the client's approval. Results for solid samples are expressed on dry weight basis. This report was revised July 20, 2022 to update the analyte list to twenty-nine compounds. This report was revised August 16, 2022 to update the MDL. This report was revised August 19, 2022 to update the compound list.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results show the blank was free of the target perfluorinated compounds at the reporting limits. This indicates that the sample processing procedures did not significantly contribute to the analyte content determined for the sample material.

A laboratory spike sample was also prepared with each sample batch using clean reference matrix that had been fortified with native standards. With the exception of 11-CI-PF3OUdS in LCS-99288, and all analytes in LCS-99468, the recovery results were within the method limits. All samples associated with LCS-99468 had no analyte detection and recovery was on the high side, so results are accepted. No samples associated with LCS-99288 had detections for 11-CI-PF3OUdS and recovery in LCS was low so this indicates the the potential for a false negative for 11-CI-PF3OUdS.

On the matrix spikes there are several analytes that are marked R as the recoveries are diminished or elevated from the expected levels. These deviations may be due to the presence of the affected analytes in the sample material and/or sample inhomogeneity.

Diminished/elevated extracted internal standard (EIS) recovery ("R" flagged) were present in samples, Blank-99467, Blank-99469, and CCV, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard.

Samples SB125-1, SB44-1, and SB48-1 were analyzed with the ending CCV failed high for 6:2FTS. High recovery indicates a potential high bias in the quantitation for 6:2FTS in the associated samples.

Samples have recoveries less than 1% for selected EIS. The results for these native

DISCUSSION

compounds should be considered estimated.

Several samples have low recoveries for the four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA) likely due to high native analyte concentrations or matrix interference.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range. The affected values were flagged "D" on the results tables. Values were flagged "I" where incorrect isotope ratios were obtained.

Samples SB 130-1, SB 146-1, SB 133-3, SB 131-1, SB 133-1, SB 121-1, SB 123-1, SB 127-1, SB 128-1, SB 126-1, SB 120-1, and SB 122-3 were extracted outside of the method required hold time of 28 days.

Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
A2LA	2926.01	Mississippi	MN00064
Alabama	40770	Missouri	10100
Alaska-DW	MN00064	Montana	CERT0092
Alaska-UST	17-009	Nebraska	NE-OS-18-06
Arizona	AZ0014	Nevada	MN00064
Arkansas - WW	88-0680	New Hampshire	2081
Arkansas-DW	MN00064	New Jersey	MN002
California	2929	New York	11647
Colorado	MN00064	North Carolina-	27700
Connecticut	PH-0256	North Carolina-	530
Florida	E87605	North Dakota	R-036
Georgia	959	Ohio-DW	41244
Hawaii	MN00064	Ohio-VAP (170	CL101
Idaho	MN00064	Ohio-VAP (180	CL110
Illinois	200011	Oklahoma	9507
Indiana	C-MN-01	Oregon- rimary	MN300001
Iowa	368	Oregon-Second	MN200001
Kansas	E-10167	Pennsylvania	68-00563
Kentucky-DW	90062	Puerto Rico	MN00064
Kentucky-WW	90062	South Carolina	74003
Louisiana-DEQ	AI-84596	Tennessee	TN02818
Louisiana-DW	MN00064	Texas	T104704192
Maine	MN00064	Utah	MN00064
Maryland	322	Vermont	VT-027053137
Michigan	9909	Virginia	460163
Minnesota	027-053-137	Washington	C486
Minnesota-Ag	via MN 027-053	West Virginia-D	382
Minnesota-Petr	1240	West Virginia-D	9952C
		Wisconsin	999407970
		Wyoming-UST	via A2LA 2926.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, LLC
1700 Elm Street, Suite 200
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444
www.pacelabs.com

Appendix A

Sample Management

REPORT OF LABORATORY ANALYSIS

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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
SB144-1	10609607001	05/21/2022	Solid
SB130-1	10609607002	05/21/2022	Solid
SB148-1	10609607003	05/21/2022	Solid
SB146-1	10609607004	05/21/2022	Solid
SB133-3	10609607005	05/21/2022	Solid
SB147-1	10609607006	05/21/2022	Solid
SB131-1	10609607007	05/21/2022	Solid
SB129-1	10609607008	05/21/2022	Solid
SB145-1	10609607009	05/21/2022	Solid
SB132-1	10609607010	05/21/2022	Solid
SB133-1	10609607011	05/21/2022	Solid
SB121-1	10609607012	05/21/2022	Solid
SB123-1	10609607013	05/21/2022	Solid
SB127-1	10609607014	05/21/2022	Solid
SB128-1	10609607015	05/21/2022	Solid
SB126-1	10609607016	05/21/2022	Solid
SB120-1	10609607017	05/21/2022	Solid
SB122-3	10609607018	05/21/2022	Solid
SB122-1	10609607019	05/21/2022	Solid
SB124-1	10609607020	05/21/2022	Solid
SB125-1	10609607021	05/21/2022	Solid
SB119-1	10609607022	05/21/2022	Solid
SB44-1	10609607023	05/21/2022	Solid
SB45-1	10609607024	05/21/2022	Solid
SB46-1	10609607025	05/21/2022	Solid
SB48-1	10609607026	05/21/2022	Solid
SB47-1	10609607027	05/21/2022	Solid
SB163-1	10609607028	05/21/2022	Solid
SB161-1	10609607029	05/21/2022	Solid
SB159-1	10609607030	05/21/2022	Solid
SB160-1	10609607031	05/21/2022	Solid
SB156-3	10609607032	05/21/2022	Solid
SB162-1	10609607033	05/21/2022	Solid
SB158-1	10609607034	05/21/2022	Solid
SB156-1	10609607035	05/21/2022	Solid
SB154-1	10609607036	05/21/2022	Solid
SB155-1	10609607037	05/21/2022	Solid

REPORT OF LABORATORY ANALYSIS

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Sample ID Cross Reference

<u>Client Sample ID</u>	<u>Pace Sample ID</u>	<u>Date Received</u>	<u>Sample Type</u>
SB157-1	10609607038	05/21/2022	Solid
EB519	10609607039	05/21/2022	Water

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Company: **BGES, Inc.** Billing Information: **Jayne Martin**

Address: **1042 E 6th Ave 99501** **Jayne@BGESInc.com**

Report To: **Jayne Martin** Email To: **Jayne@BGESInc.com**

Copy To: Site Collection Info/Address:

Customer Project Name/Number: **Homer Airport** State: **AK** County/City: **Homer** Time Zone Collected: **AK**
 [] PT [] MT [] CT [] ET

Phone: **907-644-2800** Site/Facility ID #: Compliance Monitoring?
 Email: **Jayne@BGESInc.com** [] Yes [] No

Collected By (print): **Sam Bundy** Purchase Order #: **00007286** DW PWS ID #: DW Location Code:

Collected By (signature): *[Signature]* Turnaround Date Required: **Standard TAT - 15 Days** Immediately Packed on Ice:
 [X] Yes [] No

Sample Disposal: [] Dispose as appropriate [] Return [] Archive [X] Hold: Rush:
 [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day (Expedite Charges Apply) Field Filtered (if applicable):
 [] Yes [] No Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
SB144-1	SL	G	5/19/22	1243				1
SB130-1	SL	G		1426				1
SB148-1	SL	G		1323				1
SB146-1	SL	G		1310				1
SB133-3	SL	G		1356				1
SB147-1	SL	G		1232				1
SB131-1	SL	G		1439				1
SB129-1	SL	G		1412				1
SB145-1	SL	G		1255				1
SB132-1	SL	G		1404				1

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses										Lab Profile/Line:			
QSM 5.3 Table B15 - PFAS										Lab Sample Receipt Checklist:			
										Custody Seals Present/Intact	Y	N	NA
										Custody Signatures Present	Y	N	NA
										Collector Signature Present	Y	N	NA
										Bottles Intact	Y	N	NA
										Correct Bottles	Y	N	NA
										Sufficient Volume	Y	N	NA
										Samples Received on Ice	Y	N	NA
										VOA - Headspace Acceptable	Y	N	NA
										USDA Regulated Soils	Y	N	NA
Samples in Holding Time	Y	N	NA										
Residual Chlorine Present	Y	N	NA										
Cl Strips:													
Sample pH Acceptable	Y	N	NA										
pH Strips:													
Sulfide Present	Y	N	NA										
Lead Acetate Strips:													
LAB USE ONLY: Lab Sample # / Comments:													

WO#: 10609607

10609607

Customer Remarks / Special Conditions / Possible Hazards: Type of Ice Used: Wet Blue Dry None

Packing Material Used: SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2682784**

Radchem sample(s) screened (<500 cpm): Y N NA

Samples received via: FEDEX UPS Client Courier Pace Courier

Lab Sample Temperature Info:

Temp Blank Received: Y N NA

Therm ID#: **TJ**

Cooler 1 Temp Upon Receipt: **6.2** oC

Cooler 1 Therm Corr. Factor: **BD** oC

Cooler 1 Corrected Temp: **6.2** oC

Comments:

Trip Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): YES NO

Page: **1** of: **8**

Relinquished by/Company (Signature): *Sam Bundy* Date/Time: **5/20/22 6:30**

Received by/Company (Signature): *[Signature]* Date/Time: **5/24/22 10:00**

Relinquished by/Company (Signature): Date/Time:

Received by/Company (Signature): Date/Time:

Relinquished by/Company (Signature): Date/Time:

Received by/Company (Signature): Date/Time:

Table #: Acctnum: Template: Prelogin: PM: PB:

Revision 0

Company: **BGES Inc**
 Address: **1042 E 6th Ave #1501**
 Report To: **Jayne Martin**
 Copy To: **Jayne Martin**
 Billing Information: **Jayne Martin**
 Email To: **Jayne@BGESinc.com**
 Site Collection Info/Address: **Jayne@BGESinc.com**

Customer Project Name/Number: **Homer Airport**
 State: **AK** County/City: **Homer** Time Zone Collected: **AK**
 Site/Facility ID #: **AK/ Homer**
 Compliance Monitoring? **[] Yes [] No**
 Purchase Order #: **00107286**
 Quote #: **00107286**
 Turnaround Date Required: **Standard FAT - 15 Days**
 Rush: **[] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day**
 Sample Disposal: **[] Dispose as appropriate [] Return [] Archive: [] Hold:**

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res C	# of Ctns
			Date	Time		
SB123-1	SL	G	5-10-22	1341		1
SB121-1	SL	G		1709		1
SB123-1	SL	G		1758		1
SB127-1	SL	G		1544		1
SB128-1	SL	G		1553		1
SB126-1	SL	G		1621		1
SB120-1	SL	G		1655		1
SB122-3	SL	G		1730		1
SB122-1	SL	G		1721		1
SB124-1	SL	G		1448		1

Customer Remarks / Special Conditions / Possible Hazards: **SHORT HOLDS PRESENT (<72 hours): Y N N/A**

Type of Ice Used: **Wet Blue Dry None**

Packing Material Used:

Radchem sample(s) screened (<500 cpm): **Y N NA**

Lab Tracking #: **2682787**

Samples received via: **FEDEX UPS Client Courier Pace Courier**

Date/Time: **5/20/22** Received by/Company: **(Signature)**

Date/Time: **5/21/22** Received by/Company: **(Signature)**

Date/Time: **5/24/22** Received by/Company: **(Signature)**

Date/Time: **5/24/22** Received by/Company: **(Signature)**

Date/Time: **5/24/22** Received by/Company: **(Signature)**

Date/Time: **5/24/22** Received by/Company: **(Signature)**

Date/Time: **5/24/22** Received by/Company: **(Signature)**

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

Container Preservative Type **
 Lab Project Manager:

Lab Sample Receipt Checklist:
 Custody Seals Present/Intact **Y N NA**
 Custody Signatures Present **Y N NA**
 Collector Signatures Present **Y N NA**
 Bottles Intact **Y N NA**
 Correct Bottles **Y N NA**
 Sufficient Volume **Y N NA**
 Samples Received on Ice **Y N NA**
 VOA - Headspace Acceptable **Y N NA**
 USDA Regulated Soils **Y N NA**
 Samples in Holding Time **Y N NA**
 Residual Chlorine Present **Y N NA**
 CI Strips: **Y N NA**
 Sample pH Acceptable **Y N NA**
 pH Strips: **Y N NA**
 Sulfide Present **Y N NA**
 Lead Acetate Strips: **Y N NA**
 LAB USE ONLY:
 Lab Sample # / Comments:

Lab Sample Temperature Info:
 Temp Blank Received: **Y N NA**
 Therm ID#: **17**
 Cooler 1 Temp Upon Receipt: **6.2** °C
 Cooler 1 Therm Corr. Factor: **0.2** °C
 Cooler 1 Temp Corrected Temp: **6.2** °C
 Comments:

Trip Blank Received: **Y N NA**
 HCL MeOH TSP Other
 Non Conformance(s): **YES / NO**
 Page: **2** of: **8**

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Billing Information:

Company: **BGES, Inc.**

Address: **1042 E 6th Ave 99501**

Report To: **Jayne Martin**

Copy To: **Jayne Martin**

Email To: **Jayne@BGESInc.com**

Site Collection Info/Address: **AK Home**

State: **AK** County/City: **Home** Time Zone Collected: **AK**

Site/Facility ID #: **AK Home**

Purchase Order #: **00107296**

Quote #: **00107296**

Turnaround Date Required: **Standard TAT - 15 Days**

Collected By (print): **Sam Bundy**

Signature: *[Signature]*

Sample Disposal: **Standard TAT - 15 Days**

Compliance Monitoring? **Yes**

DW PWS ID #: **15 D-95**

DW Location Code: **15 D-95**

Immediately Packed on Ice: **Yes**

Field Filtered (if applicable): **Yes**

Analysis: **Standard TAT - 15 Days**

Matrix * **SL**

Comp/Grab **G**

Collected (or Composite Start) Date **9-19-22** Time **1510**

Res **1**

Cl **1**

Time **1637**

Time **1850**

Time **1830**

Time **1818**

Time **1755**

Time **1805**

Time **0912**

Time **0957**

Time **0926**

Time **0926**

Time **0926**

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or
MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Profile/Line:

Lab Sample Receipt Checklist:
Custody Seals Present/Intact Y N NA
Custody Signatures Present Y N NA
Collector Signatures Present Y N NA
Bottles Intact Y N NA
Correct Bottles Y N NA
Sufficient Volume Y N NA
Samples Received on Ice Y N NA
VOA - Headspace Acceptable Y N NA
USDA Regulated Soils Y N NA
Samples in Holding Time Y N NA
Residual Chlorine Present Y N NA
Cl Strips: Y N NA
Sample pH Acceptable Y N NA
pH Strips: Y N NA
Sulfide Present Y N NA
Lead Acetate Strips: Y N NA
Lab USE ONLY:
Lab Sample # / Comments:

OSM 9.3 Tank B15 - PFAS

Lab Sample Temperature info:

Temp Blank Received: Y N NA
Therm ID#: **T7**
Cooler 1 Temp Upon Receipt: **6.2** °C
Cooler 1 Therm Corr. Factor: **0.0** °C
Cooler 1 Corrected Temp: **6.2** °C
Comments:

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: **2682783**

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: MTJL LAB USE ONLY

Table #:

Account:

Prelogin:

PMI:

PB:

Received by/Company: (Signature) *[Signature]*

Date/Time: **5/19/22**

Received by/Company: (Signature) *[Signature]*

Date/Time: **5/20/22**

Received by/Company: (Signature) *[Signature]*

Date/Time: **5/20/22**

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: **5/19/22**

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: **5/20/22**

Relinquished by/Company: (Signature) *[Signature]*

Date/Time: **5/20/22**



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: **BGES, Inc.**
 Address: **1042 E 6th Ave**
 Report To: **Jayne Martin**
 Copy To: **Jayne Martin**

Billing Information:
Jayne Martin
Jayne@BGESInc.com

Customer Project Name/Number: **Homer Airport**
 Phone: **907-644-2100**
 Email: **Jayne@BGESInc.com**

State: **AK** County/City: **Homer** Time Zone Collected: **AK**
 Site/Facility ID #: **AK Homer**

Purchase Order #: **00107286**
 Quote #: **00107286**
 Turnaround Date Required: **Standard TAT - 15-DAY**

Rush: Same Day Next Day
 12 Day 3 Day 4 Day 5 Day
 (Expedite Charges Apply)

Lab Profile/Line:

Lab Sample Receipt Checklist:
 Custody Seals Present/Intact **Y N NA**
 Custody Signatures Present **Y N NA**
 Collector Signatures Present **Y N NA**
 Bottles Intact **Y N NA**
 Correct Bottles **Y N NA**
 Sufficient Volume **Y N NA**
 Samples Received on Ice **Y N NA**
 VOA - Headspace Acceptable **Y N NA**
 USDA Regulated Soils **Y N NA**
 Samples in Holding Time **Y N NA**
 Residual Chlorine Present **Y N NA**
 Cl Strips: **Y N NA**
 Sample pH Acceptable **Y N NA**
 pH Strips: **Y N NA**
 Sulfide Present **Y N NA**
 Lead Acetate Strips: **Y N NA**
 LAB USE ONLY: **Y N NA**
 Lab Sample # / Comments:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
SB160-1	SL		5-19-24	0947		1
SB156-3	SL		1043			1
SB162-1	SL		1068			1
SB158-1	SL		1635			1
SB156-1	SL		1038			1
SB154-1	SL		1105			1
SB155-1	SL		1113			1
SB157-1	SL		1124			1
EB519	WW		1916			2
SB154-2	SL		1110			1

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Analyses

Lab Sample Receipt Checklist:

Customer Remarks / Special Conditions / Possible Hazards:
Hold Sample SB154-2 for Point of later analysis by QSM 5.3 TABLE B15-PFAS

Relinquished by/Company: **Signature** Date/Time: **5/20/24**

Relinquished by/Company: **Signature** Date/Time: **5/24/24**

Relinquished by/Company: **Signature** Date/Time: **5/24/24**

Temp Blank Received: **Y N NA**
 Therm ID#: **177**
 Cooler 1 Temp Upon Receipt: **6.20C**
 Cooler 1 Therm Corr. Factor: **0.00C**
 Cooler 1 Corrected Temp: **6.20C**
 Comments:

Lab Sample Temperature Info:

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Res Cl	# of Ctns
			Date	Time		
SB160-1	SL		5-19-24	0947		1
SB156-3	SL		1043			1
SB162-1	SL		1068			1
SB158-1	SL		1635			1
SB156-1	SL		1038			1
SB154-1	SL		1105			1
SB155-1	SL		1113			1
SB157-1	SL		1124			1
EB519	WW		1916			2
SB154-2	SL		1110			1

SHORT HOLDS PRESENT (<72 hours): **Y N N/A**

Lab Tracking #: **2682796**

Samples received via:
 FEDEX UPS Client Courier Pace Courier

Date/Time: **5/21/24**
 Date/Time: **5/24/24**
 Date/Time: **100%**

Table #: **MTIL LAB USE ONLY**
 Accnum:
 Template:
 Prelogin:
 PM:
 PB:

Received by/Company: **Signature** Date/Time: **5/20/24**

Received by/Company: **Signature** Date/Time: **5/24/24**

Received by/Company: **Signature** Date/Time: **5/24/24**

ALL SHADED AREAS are for LAB USE ONLY

Trip Blank Received: **Y N NA**
 HCL **Y** MeOH **N** TSP **N** Other **NA**

Non Conformance(s): **4**
 YES / NO **3**

Page: **4**
 of: **3**



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields
Billing Information:

Company: **BOES, Inc**
Address: **1042 E 6th Ave 97501**
Report To: **Jayne Martin**
Copy To: **Jayne Martin**
Email To: **Jayne@BOES, Inc. com**
Site Collection Info/Address: **Jayne@BOES, Inc. com**

Customer Project Name/Number: **Homer Airport**
State: **AK** County/City: **Homer** Time Zone Collected: **AK**
Site/Facility ID #: **AK Homer**
Compliance Monitoring?
[] Yes [] No
Purchase Order #: **00107286**
Quote #: **00107286**
Turnaround Date Required: **Standard TAT - 15 Days**
Immediately Packed on Ice: **X** Yes [] No
Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day
Field Filtered (if applicable): [] Yes [] No
Analysis: _____

Sample Disposal:
[] Dispose as appropriate [] Return
[] Archive: _____
[X] Hold: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Time	Res CI	# of Ctns
			Date	Time				
SB157-2	SL	G	5-11-20	1129			1	
SB161-2	SL	G		1002			1	
SB160-2	SL	G		0952			1	
SB158-2	SL	G		1030			1	
SB155-2	SL	G		1118			1	
SB159-2	SL	G		0931			1	
SB163-4	SL	G		0920			1	
SB162-2	SL	G		1014			1	
SB156-2	SL	G		1041			1	
SB163-2	SL	G		0918			1	

Customer Remarks / Special Conditions / Possible Hazards:
Hold All Samples for potential PCB analysis by QSM 5.3
To Tank B15 - PFAS

Type of Ice Used: Wet Blue Dry None
Packing Material Used:
Radchem sample(s) screened (<500 cpm): Y N NA
Received by/Company: (Signature)
SB/BGES
Date/Time: **5/12/22 0830**
Received by/Company: (Signature)
Jayne Martin
Date/Time: **5/12/22 1000**
Received by/Company: (Signature)
Jayne Martin
Date/Time: _____
Received by/Company: (Signature)

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses

Lab Sample/Line:	Temp	Pressure	Flow	Flow Rate	Flow Rate Error	Flow Rate Error %	Flow Rate Error % Error	Flow Rate Error % Error Error	Flow Rate Error % Error Error Error
QSM 5.3 Table B15 - PFAS									

Lab Sample Receipt Checklist:
Custody Seals Present/Intact: Y N NA
Custody Signatures Present: Y N NA
Collector Signatures Present: Y N NA
Bottles Intact: Y N NA
Correct Bottles: Y N NA
Sufficient Volume: Y N NA
Samples Received on Ice: Y N NA
VOA - Headspace Acceptable: Y N NA
USDA Regulated Soils: Y N NA
Samples in Holding Time: Y N NA
Residual Chlorine Present: Y N NA
Cl Strips: _____
sample pH Acceptable: Y N NA
pH Strips: _____
Sulfide Present: Y N NA
Lead Acetate Strips: _____
LAB USE ONLY:
Lab Sample # / Comments:

Lab Sample Temperature Info:
Temp Blank Received: Y (N) NA
Therm ID#: **TA**
Cooler 1 Temp Upon Receipt: **6.20C**
Cooler 1 Therm Corr. Factor: **0.00C**
Cooler 1 Corrected Temp: **6.20C**
Comments:
Trip Blank Received: Y N NA
HCL MeOH TSP Other
Non Conformance(s): Page: **5** of: **5**
YES / NO

Company: **BGES Inc.**
 Address: 1047 E 6th Ave 94501
 Report To: Jayne Martin
 Copy To:
 Customer Project Name/Number: Home Airport
 Phone: 907-644-2500
 Email: Jayne@BGESInc.com
 Site/Facility ID #: 00107286
 Purchase Order #: Standard TAT - 15 Day
 Quote #: 00107286
 Turnaround Date Required:
 Rush: [] Same Day [] Next Day [] 2 Day [] 3 Day [] 4 Day [] 5 Day [] Expedite Charges Apply

Time Zone Collected: AK
 Compliance Monitoring:
 [] Yes [] No
 DW PWS ID #: DW Location Code: Immediately Packed on Ice: [X] Yes [] No
 Field Filtered (if applicable): [] Yes [] No
 Analysis:
 * Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Time	Res Cl	# of Ctns
			Date	Time				
SB124-4	SL	G	5:17	14:56			1	
SB128-2	SL	G		15:58			1	
SB125-2	SL	G		15:15			1	
SB122-2	SL	G		17:26			1	
SB120-2	SL	G		17:00			1	
SB124-2	SL	G		14:53			1	
SB119-2	SL	G		16:42			1	
SB126-2	SL	B		15:26			1	
SB121-2	SL	G		17:14			1	
SB123-2	SL	G		17:43			1	

Customer Remarks / Special Conditions / Possible Hazards:
 Hold All Samples for Potential Later Analysis by OSM 5-3
 Table B15 - PFAS

Type of Ice Used: Wet Blue Dry None
 Packing Material Used:
 Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) *Jayne Martin* / Pace
 Date/Time: 5/20/22 / 10:00
 Received by/Company: (Signature)
 Date/Time:
 Relinquished by/Company: (Signature)
 Date/Time:
 Relinquished by/Company: (Signature)
 Date/Time:



CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTIL Log-in Number Here

Company: **BGES, Inc.**
 Address: **1047 E 6th Ave**
 Report To: **Jayne Martin**
 Copy To: **Jayne Martin**
 Billing Information: **Jayne Martin**
 Email To: **Jayne@BGESINC.COM**
 Site Collection Info/Address: **Jayne@BGESINC.COM**

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **
 Lab Project Manager:
 ** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Analyses	Y	N	NA
Custody Seals Present	Y		NA
Custody Signatures Present	Y		NA
Collector Signatures Present	Y		NA
Bottles Intact	Y		NA
Corrict Bottles	Y		NA
Sufficient Volume	Y		NA
Samples Received on Ice	Y		NA
VOA - Headspace Acceptable	Y		NA
USDA Regulated Soils	Y		NA
Samples in Holding Time	Y		NA
Residual Chlorine Present	Y		NA
CI Strips:			
Sample pH Acceptable	Y		NA
pH Strips:			
Sulfide Present	Y		NA
Lead Acetate Strips:			

Lab Profile/Line:
 Lab Sample Receipt Checklist:
 Lab Sample # / Comments: **QSM 5-39able B15 - PFAS**

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res Cl	# of Ctns
S13127-2	SL	G	5-11-15	15:49				1
S13144-2	SL	G		18:55				1
S13146-2	SL	G		18:22				1
S13148-2	SL	G		18:08				1
S13147-2	SL	G		18:10				1
S13145-4	SL	G		18:38				1
S13145-2	SL	G		18:35				1
S13145-2	SL	G		12:59				1
S13150-2	SL	G		14:31				1
S13133-2	SL	G		13:16				1

Lab Sample Temperature Info:
 Temp Blank Received: **Y**
 Therm ID#: **177**
 Cooler 1 Temp Upon Receipt: **6.2**
 Cooler 1 Therm Corr. Factor: **0.0**
 Cooler 1 Corrected Temp: **6.2**
 Comments:

Customer Remarks / Special Conditions / Possible Hazards:	Type of Ice Used:	Wet	Blue	Dry	None
Hold All Samples for Potential Later Analysis by QSM 5.3 Table B15 - PFAS					

Lab Tracking #: **2682791**
 Samples received via: FEDEX UPS Client Courier Pace Courier
 Date/Time: **5/21/22 1000**
 Date/Time: **5/20/22 08:30**
 Date/Time: **5/20/22 08:30**
 Date/Time: **5/20/22 08:30**
 Date/Time: **5/20/22 08:30**

Relinquished by/Company: (Signature) **[Signature]**
 Relinquished by/Company: (Signature) **[Signature]**
 Relinquished by/Company: (Signature) **[Signature]**
 Relinquished by/Company: (Signature) **[Signature]**
 Trip Blank Received: Y N NA
 HCL MeOH TSP Other
 Non Conformance(s): YES / NO
 Page: **3** of **3**

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Pace Analytical

Billing Information:

Company: BGES Inc.

Sayre Martha

Address: 1042 E 6th Ave 99501

Report To: Sayre Martha

Email To: Sayre@BGES Inc. com

Site Collection Info/Address:

Customer Project Name/Number:

Homer Airport

Phone: 907-644-2800

Email: Sayre@BGES Inc. com

Collected By (print): Sam Bundy

Collected By (signature)

Purchase Order #:

Quote #: 00107286

Turnaround Date Required:

Standard 14-15 days

Rush:

[] Same Day [] Next Day

[] 2 Day [] 3 Day [] 4 Day [] 5 Day

(Expedite Charges Apply)

Sample Disposal:

[] Dispose as appropriate [] Return

[] Archive: _____

Hold: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End Date	Time	Res CI	# of Ctns
			Date	Time				
SB147-4	SL	G	5-17-20	1240			1	
SB146-2	SL	G	1315				1	
SB132-2	SL	G	1359				1	
SB147-2	SL	G	1237				1	
SB144-2	SL	G	1248				1	
SB131-2	SL	G	1444				1	
SB148-2	SL	G	1328				1	
SB129-2	SL	G	1417				1	

Customer Remarks / Special Conditions / Possible Hazards:

Hold all samples per Potential Water Analy sis by QSM 5.3 Table B15 - PEAS

Relinquished by/Company: (Signature)

5/20/20

Relinquished by/Company: (Signature)

SB/BGES

Date/Time:

Received by/Company: (Signature)

Received by/Company: (Signature)

Date/Time:

LAB USE ONLY - Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-in Number Here

ALL SHADED AREAS are for LAB USE ONLY

Container Preservative Type **

Lab Project Manager:

Analyses

Lab Profile/Line:

Analyses	Y	N	N/A
QSM 5.3 Table B15 - PEAS			

Lab Sample Receipt Checklist:

- Custody Seals Present/Intact Y N NA
- Custody Signatures Present Y N NA
- Collector Signatures Present Y N NA
- Bottles Intact Y N NA
- Correct Bottles Y N NA
- Sufficient Volume Y N NA
- Samples Received on Ice Y N NA
- VOA - Headspace Acceptable Y N NA
- USDA Regulated Soils Y N NA
- Samples in Holding Time Y N NA
- Residual Chlorine Present Y N NA
- CI Strips: Y N NA
- Sample pH Acceptable Y N NA
- pH Strips: Y N NA
- Sulfide Present Y N NA
- Lead Acetate Strips: Y N NA

LAB USE ONLY: Lab Sample # / Comments:

Lab Sample Temperature Info:

Temp Blank Received: Y (N) NA
Therm ID#: 17
Cooler 1 Temp Upon Receipt: 6.20C
Cooler 1 Therm Corr. Factor: 0.00C
Cooler 1 Corrected Temp: 6.20C

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Lab Tracking #: 2682785

Samples received via: FEDEX UPS Client Courier Pace Courier

Date/Time: 5/21/20 1000

Table #: _____

Acctnum: _____

Template: _____

Prelogin: _____

PVI: _____

PB: _____

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Received by/Company: (Signature)

Date/Time: 5/20/20

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Relinquished by/Company: (Signature)

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Date/Time:

Page: 88

of: 88

Non Conformance(s):

YES / NO

Pace
ANALYTICAL SERVICES

DC#_ Title: ENV-FRM-MIN4-0150 v05_Sample Condition Upon Receipt (SCUR)

Effective Date: 04/12/2022

Sample Condition Upon Receipt

Client Name: BGES, Inc. Project #: _____

Courier: Fed Ex UPS USPS Client
 Pace SpeeDee Commercial

Tracking Number: 2733 7146 6257

See Exceptions ENV-FRM-MIN4-0142

WO#: 10609607

PM: KV Due Date: 06/14/22

CLIENT: ESC_TN

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Biological Tissue Frozen? Yes No N/A

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermometer: T1(0461) T2(1336) T3(0459) T4(0254) T5(0489) T6(0235)
 T7 (0042) 01339252/1710 122639816 140792808 Type of Ice: Wet Blue None Dry Melted

Did Samples Originate in West Virginia? Yes No Were All Container Temps Taken? Yes No N/A

Temp should be above freezing to 6°C Cooler Temp Read w/temp blank: _____ °C

Average Corrected Temp (no temp blank only): 6.2 °C See Exceptions ENV-FRM-MIN4-0142 1 Container

Correction Factor: 0.0 Cooler Temp Corrected w/temp blank: _____ °C

USDA Regulated Soil: (N/A, water sample/Other: _____) Date/Initials of Person Examining Contents: MK4 5/24/22

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? Yes No Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist ENV-FRM-MIN4-0154 and include with SCUR/COC paperwork.

Location (check one): <input type="checkbox"/> Duluth <input checked="" type="checkbox"/> Minneapolis <input type="checkbox"/> Virginia	COMMENTS:
Chain of Custody Present and Filled Out? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1.
Chain of Custody Relinquished? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	2.
Sampler Name and/or Signature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	4. If Fecal: <input type="checkbox"/> <8 hrs <input type="checkbox"/> >8hr, <24 hrs, <input type="checkbox"/> >24 hrs
Short Hold Time Analysis (<72 hr)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. <input type="checkbox"/> Fecal Coliform <input type="checkbox"/> HPC <input type="checkbox"/> Total Coliform/E coli <input type="checkbox"/> BOD/cBOD <input type="checkbox"/> Hex Chrome <input type="checkbox"/> Turbidity <input type="checkbox"/> Nitrate <input type="checkbox"/> Nitrite <input type="checkbox"/> Orthophos <input type="checkbox"/> Other
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
Field Filtered Volume Received for Dissolved Tests? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10. Is sediment visible in the dissolved container? <input type="checkbox"/> Yes <input type="checkbox"/> No
Is sufficient information available to reconcile the samples to the COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Matrix: <input type="checkbox"/> Water <input checked="" type="checkbox"/> Soil <input type="checkbox"/> Oil <input type="checkbox"/> Other-	11. If no, write ID/ Date/Time on Container Below: See Exception <input type="checkbox"/> ENV-FRM-MIN4-0142
All containers needing acid/base preservation have been checked? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12. Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , <2pH, NaOH >9 Sulfide, NaOH >10 Cyanide) <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	<input type="checkbox"/> NaOH <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> Zinc Acetate
Exceptions: VOA, Coliform, TOC/DOC Oil and Grease, DRO/8015 (water) and Dioxin/PFAS <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Positive for Res. <input type="checkbox"/> Yes <input type="checkbox"/> No Chlorine? <input type="checkbox"/> No pH Paper Lot#
	Res. Chlorine 0-6 Roll 0-6 Strip 0-14 Strip
Headspace in Methyl Mercury Container? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Extra labels present on soil VOA or WIDRO containers? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13. See Exception <input type="checkbox"/> ENV-FRM-MIN4-0140
Headspace in VOA Vials (greater than 6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Pace Trip Blank Lot # (if purchased): _____

CLIENT NOTIFICATION/RESOLUTION

Person Contacted: _____ Date/Time: _____ Field Data Required? Yes No

Comments/Resolution: _____

Project Manager Review: [Signature] Date: 5/24/22

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e., out of hold, incorrect preservative, out of temp, incorrect containers).

Labeled by: MK4 (3)



Document Name:
Sample Condition Upon Receipt (SCUR) Exception Form
Document No.:
ENV-FRM-MIN4-0142 Rev.01

Document Revised: 04Jun2020
Page 1 of 1
Pace Analytical Services -
Minneapolis

SCUR Exceptions:

Workorder #:

Out of Temp Sample IDs	Container Type	# of Containers	PM Notified? <input type="checkbox"/> Yes <input type="checkbox"/> No
			If yes, indicate who was contacted/date/time. If no, indicate reason why.

Multiple Cooler Project? <input type="checkbox"/> Yes <input type="checkbox"/> No		
If you answered yes, fill out information to the left.		

No Temp Blank		
Read Temp	Corrected Temp	Average Temp
8.7		6.2
4.3		
7.1		
4.8		

Tracking Number/Temperature

Issue Type:	Container Type	# of Containers
Sample ID	Type	

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preserv.	pH Upon Receipt	Date Adjusted	Time Adjusted	Amount Added (ml)	Lot # Added	pH After	In Compliance after addition?	Initials
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	
								<input type="checkbox"/> Yes <input type="checkbox"/> No	

Comments:

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10609607001	SB144-1	SW3535	33303	PFAS-36	Q220622A_00
10609607002-R	SB130-1	SW3535	33418	PFAS-36	Q220707A_01
10609607003	SB148-1	SW3535	33303	PFAS-36	Q220622A_00
10609607004-R	SB146-1	SW3535	33418	PFAS-36	Q220707A_01
10609607005-R	SB133-3	SW3535	33418	PFAS-36	Q220707A_01
10609607006	SB147-1	SW3535	33303	PFAS-36	Q220622A_01
10609607007-R	SB131-1	SW3535	33418	PFAS-36	Q220707A_01
10609607008	SB129-1	SW3535	33303	PFAS-36	Q220622A_01
10609607009	SB145-1	SW3535	33303	PFAS-36	Q220622A_01
10609607010	SB132-1	SW3535	33303	PFAS-36	Q220622A_01
10609607011-R	SB133-1	SW3535	33418	PFAS-36	Q220707A_01
10609607012-R	SB121-1	SW3535	33418	PFAS-36	Q220707A_01
10609607012-R	SB121-1	SW3535	33418	PFAS-36	Q220708B_01
10609607013-R	SB123-1	SW3535	33418	PFAS-36	Q220707A_01
10609607014-R	SB127-1	SW3535	33418	PFAS-36	Q220707A_01
10609607015-R	SB128-1	SW3535	33418	PFAS-36	Q220708A_01
10609607016-R	SB126-1	SW3535	33418	PFAS-36	Q220707A_01
10609607016-R	SB126-1	SW3535	33418	PFAS-36	Q220708B_01
10609607017-R	SB120-1	SW3535	33418	PFAS-36	Q220707A_01
10609607017-R	SB120-1	SW3535	33418	PFAS-36	Q220708B_01
10609607018-R	SB122-3	SW3535	33418	PFAS-36	Q220707A_01
10609607019	SB122-1	SW3535	33304	PFAS-36	B220622B_03
10609607020	SB124-1	SW3535	33304	PFAS-36	B220622B_05
10609607021	SB125-1	SW3535	33304	PFAS-36	B220622B_04
10609607021	SB125-1	SW3535	33304	PFAS-36	Q220621A_00
10609607022	SB119-1	SW3535	33304	PFAS-36	B220622B_04
10609607022	SB119-1	SW3535	33304	PFAS-36	Q220621A_00
10609607023	SB44-1	SW3535	33304	PFAS-36	B220622B_04
10609607023	SB44-1	SW3535	33304	PFAS-36	Q220621A_00
10609607024	SB45-1	SW3535	33304	PFAS-36	B220622B_04
10609607024	SB45-1	SW3535	33304	PFAS-36	Q220621A_00
10609607025	SB46-1	SW3535	33304	PFAS-36	B220622B_04
10609607025	SB46-1	SW3535	33304	PFAS-36	Q220621A_00
10609607026	SB48-1	SW3535	33304	PFAS-36	B220622B_04
10609607026	SB48-1	SW3535	33304	PFAS-36	Q220621A_00
10609607027	SB47-1	SW3535	33304	PFAS-36	B220622B_03
10609607028	SB163-1	SW3535	33304	PFAS-36	B220622B_04
10609607029	SB161-1	SW3535	33304	PFAS-36	B220622B_04
10609607030	SB159-1	SW3535	33304	PFAS-36	B220622B_05
10609607031	SB160-1	SW3535	33304	PFAS-36	B220622B_05
10609607032	SB156-3	SW3535	33304	PFAS-36	B220622B_05
10609607033	SB162-1	SW3535	33304	PFAS-36	B220622B_05
10609607034	SB158-1	SW3535	33304	PFAS-36	B220627B_00
10609607035	SB156-1	SW3535	33304	PFAS-36	B220622B_05

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Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10609607036	SB154-1	SW3535	33304	PFAS-36	B220622B_05
10609607037	SB155-1	SW3535	33304	PFAS-36	Q220622A_00
10609607038	SB157-1	SW3535	33304	PFAS-36	Q220622A_00
10609607039	EB519	SW3535	33240	PFAS-36	B220613B_02



Reporting Flags

- A = Reporting Limit based on signal to noise (EDL)
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Isotope ratio out of specification
- J = Estimated value
- L = Suppressive interference, analyte may be biased low
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

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Client Sample ID SB144-1
 Lab Sample ID 10609607001
 Lab File ID Q220622A_012
 Matrix Soil
 Collected 05/19/2022 12:43
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.06g
 Percent Moisture 37.8591%
 Dry Weight Extracted 3.14g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File Q220622A_010

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.099	0.023	1	375-22-4		06/22/2022 11:46
PFPeA	ND	0.099	0.099	0.026	1	2706-90-3		06/22/2022 11:46
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/22/2022 11:46
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/22/2022 11:46
PFHxA	ND	0.099	0.099	0.030	1	307-24-4		06/22/2022 11:46
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/22/2022 11:46
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/22/2022 11:46
PFHpA	ND	0.099	0.099	0.022	1	375-85-9		06/22/2022 11:46
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/22/2022 11:46
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/22/2022 11:46
PFOA	ND	0.099	0.099	0.022	1	335-67-1		06/22/2022 11:46
6:2 FTS	ND	0.094	0.094	0.032	1	27619-97-2		06/22/2022 11:46
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/22/2022 11:46
PFNA	ND	0.099	0.099	0.028	1	375-95-1		06/22/2022 11:46
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/22/2022 11:46
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/22/2022 11:46
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/22/2022 11:46
PFDA	ND	0.099	0.099	0.021	1	335-76-2		06/22/2022 11:46
8:2 FTS	ND	0.095	0.095	0.026	1	39108-34-4		06/22/2022 11:46
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/22/2022 11:46
PFNS	ND	0.095	0.095	0.018	1	68259-12-1		06/22/2022 11:46
PFUnDA	ND	0.099	0.099	0.028	1	2058-94-8		06/22/2022 11:46
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/22/2022 11:46
NEtFOSAA	ND	0.099	0.099	0.024	1	2991-50-6		06/22/2022 11:46
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/22/2022 11:46
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/22/2022 11:46
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/22/2022 11:46
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/22/2022 11:46
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/22/2022 11:46

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB144-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607001	Percent Moisture	37.8591%
Lab File ID	Q220622A_012	Dry Weight Extracted	3.14g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:43	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	0.54	54	50-150		06/22/2022 11:46
13C4 PFOA	0.99	0.40	41	50-150	R	06/22/2022 11:46
13C2 PFDA	0.99	0.57	58	50-150		06/22/2022 11:46
13C4 PFOS	0.95	0.71	75	50-150		06/22/2022 11:46

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.39	39	50-150	R	06/22/2022 11:46
13C5 PFPeA	0.99	0.40	40	50-150	R	06/22/2022 11:46
13C3 PFBS	0.92	0.50	54	50-150		06/22/2022 11:46
13C2 4:2FTS	0.92	1.3	144	50-150		06/22/2022 11:46
13C5 PFHxA	0.99	0.36	36	50-150	R	06/22/2022 11:46
13C4 PFHpA	0.99	0.36	37	50-150	R	06/22/2022 11:46
13C3 PFHxS	0.94	0.51	54	50-150		06/22/2022 11:46
13C2 6:2FTS	0.94	1.9	198	50-150	R	06/22/2022 11:46
13C8 PFOA	0.99	0.34	35	50-150	R	06/22/2022 11:46
13C9 PFNA	0.99	0.45	46	50-150	R	06/22/2022 11:46
13C8 PFOS	0.95	0.45	47	50-150	R	06/22/2022 11:46
13C2 8:2FTS	0.95	2.3	246	50-150	R	06/22/2022 11:46
13C6 PFDA	0.99	0.52	53	50-150		06/22/2022 11:46
d3-MeFOSAA	0.99	0.85	86	50-150		06/22/2022 11:46
13C8 PFOSA	0.99	0.31	31	50-150	R	06/22/2022 11:46
d5-EtFOSAA	0.99	0.84	85	50-150		06/22/2022 11:46
13C7 PFUdA	0.99	0.49	50	50-150		06/22/2022 11:46
13C2 PFDoA	0.99	0.65	65	50-150		06/22/2022 11:46
13C2 PFTeDA	0.99	0.66	66	50-150		06/22/2022 11:46
13C3 HFPO-DA	0.99	0.28	29	50-150	R	06/22/2022 11:46
13C2 PFHxDA	0.99	0.37	38	50-150	R	06/22/2022 11:46
d3-N-MeFOSA	0.99	0.15	15	10-150		06/22/2022 11:46

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB144-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607001	Percent Moisture	37.8591%
Lab File ID	Q220622A_012	Dry Weight Extracted	3.14g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:43	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.14	6.16	72		06/22/2022 11:46
13C4 PFOA	N/A	N/A	7.40	7.44	96	R	06/22/2022 11:46
13C2 PFDA	N/A	N/A	8.68	8.74	43		06/22/2022 11:46
13C4 PFOS	N/A	N/A	9.10	9.16	39		06/22/2022 11:46

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	13	R	06/22/2022 11:46
13C5 PFPeA	N/A	N/A	5.51	5.53	87	R	06/22/2022 11:46
13C3 PFBS	N/A	N/A	6.36	6.39	50		06/22/2022 11:46
13C2 4:2FTS	N/A	N/A	5.88	5.90	22		06/22/2022 11:46
13C5 PFHxA	N/A	N/A	6.14	6.17	65	R	06/22/2022 11:46
13C4 PFHpA	N/A	N/A	6.77	6.80	80	R	06/22/2022 11:46
13C3 PFHxS	N/A	N/A	7.76	7.81	78		06/22/2022 11:46
13C2 6:2FTS	N/A	N/A	7.07	7.10	26	R	06/22/2022 11:46
13C8 PFOA	N/A	N/A	7.40	7.43	10	R	06/22/2022 11:46
13C9 PFNA	N/A	N/A	8.04	8.08	65	R	06/22/2022 11:46
13C8 PFOS	N/A	N/A	9.10	9.17	41	R	06/22/2022 11:46
13C2 8:2FTS	N/A	N/A	8.32	8.38	25	R	06/22/2022 11:46
13C6 PFDA	N/A	N/A	8.69	8.75	57		06/22/2022 11:46
d3-MeFOSAA	N/A	N/A	8.59	8.65	72		06/22/2022 11:46
13C8 PFOSA	N/A	N/A	11.18	11.18	70	R	06/22/2022 11:46
d5-EtFOSAA	N/A	N/A	8.89	8.95	57		06/22/2022 11:46
13C7 PFUdA	N/A	N/A	9.33	9.40	66		06/22/2022 11:46
13C2 PFDoA	N/A	N/A	9.98	10.05	42		06/22/2022 11:46
13C2 PFTeDA	N/A	N/A	11.23	11.30	53		06/22/2022 11:46
13C3 HFPO-DA	N/A	N/A	6.40	6.43	77	R	06/22/2022 11:46
13C2 PFHxDA	N/A	N/A	12.32	12.39	82	R	06/22/2022 11:46
d3-N-MeFOSA	N/A	N/A	13.07	13.07	23		06/22/2022 11:46

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB144-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607001	Percent Moisture	37.8591%
Lab File ID	Q220622A_012	Dry Weight Extracted	3.14g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:43	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.74	4.77	ND		06/22/2022 11:46
PFPeA	N/A	N/A	5.52	5.54	ND		06/22/2022 11:46
HFPO-DA	0.00	0.55	0.00	6.44	ND		06/22/2022 11:46
PFBS	0.50	0.37	6.38	6.40	ND		06/22/2022 11:46
PFHxA	0.19	0.09	6.15	6.17	ND		06/22/2022 11:46
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/22/2022 11:46
PFPeS	0.00	0.37	0.00	7.12	ND		06/22/2022 11:46
PFHpA	1.00	0.48	6.78	6.81	ND		06/22/2022 11:46
DONA	0.00	0.49	0.00	7.04	ND		06/22/2022 11:46
PFHxS	0.60	0.32	7.77	7.82	ND		06/22/2022 11:46
PFOA	0.00	0.26	0.00	7.44	ND		06/22/2022 11:46
6:2 FTS	1.10	1.30	7.07	7.12	ND		06/22/2022 11:46
PFHpS	0.00	0.26	0.00	8.51	ND		06/22/2022 11:46
PFNA	0.00	0.24	0.00	8.10	ND		06/22/2022 11:46
PFOSAm	N/A	N/A	11.18	11.19	ND		06/22/2022 11:46
PFOS	0.24	0.20	9.12	9.18	ND		06/22/2022 11:46
MeFOSA	0.00	0.47	0.00	13.09	ND		06/22/2022 11:46
PFDA	0.00	0.21	0.00	8.75	ND		06/22/2022 11:46
8:2 FTS	0.00	1.50	0.00	8.38	ND		06/22/2022 11:46
9-Cl-PF3ON	0.00	0.06	0.00	9.66	ND		06/22/2022 11:46
PFNS	0.00	0.25	0.00	9.83	ND		06/22/2022 11:46
PFUnDA	0.00	0.17	0.00	9.40	ND		06/22/2022 11:46
NMeFOSAA	0.00	0.88	0.00	8.66	ND		06/22/2022 11:46
NEtFOSAA	0.00	0.47	0.00	8.96	ND		06/22/2022 11:46
PFDS	0.00	0.27	0.00	10.47	ND		06/22/2022 11:46
PFDOA	0.00	0.19	0.00	10.05	ND		06/22/2022 11:46
11-Cl-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/22/2022 11:46
PFTTrDA	0.00	0.21	0.00	10.69	ND		06/22/2022 11:46
PFTDA	0.00	0.17	0.00	11.30	ND		06/22/2022 11:46

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 www.pacelabs.com

Sample Analysis Summary
 PFAS by Isotope Dilution

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Client Sample ID SB130-1
 Lab Sample ID 10609607002-R
 Lab File ID Q220707A_024
 Matrix Soil
 Collected 05/19/2022 14:26
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.07g
 Percent Moisture 32.357%
 Dry Weight Extracted 3.43g
 Ical ID 220629B01
 CCal File Q220707A_018
 Ending CCal File Q220707A_027
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.27	0.15	0.15	0.035	1	375-22-4		07/07/2022 16:31
PFPeA	0.49	0.15	0.15	0.038	1	2706-90-3		07/07/2022 16:31
HFPO-DA	ND	0.15	0.15	0.043	1	13252-13-6		07/07/2022 16:31
PFBS	ND	0.13	0.13	0.032	1	375-73-5		07/07/2022 16:31
PFHxA	0.47	0.15	0.15	0.044	1	307-24-4		07/07/2022 16:31
4:2 FTS	ND	0.14	0.14	0.046	1	757124-72-4		07/07/2022 16:31
PFPeS	ND	0.14	0.14	0.027	1	2706-91-4		07/07/2022 16:31
PFHpA	0.33	0.15	0.15	0.033	1	375-85-9		07/07/2022 16:31
DONA	ND	0.14	0.14	0.056	1	919005-14-4		07/07/2022 16:31
PFHxS	0.66	0.13	0.13	0.032	1	355-46-4		07/07/2022 16:31
PFOA	0.23	0.15	0.15	0.033	1	335-67-1		07/07/2022 16:31
6:2 FTS	ND	0.14	0.14	0.047	1	27619-97-2		07/07/2022 16:31
PFHpS	ND	0.14	0.14	0.036	1	375-92-8		07/07/2022 16:31
PFNA	ND	0.15	0.15	0.042	1	375-95-1		07/07/2022 16:31
PFOSAm	ND	0.15	0.15	0.034	1	754-91-6		07/07/2022 16:31
PFOS	0.46	0.13	0.13	0.041	1	1763-23-1		07/07/2022 16:31
MeFOSA	ND	0.15	0.15	0.036	1	31506-32-8		07/07/2022 16:31
PFDA	ND	0.15	0.15	0.032	1	335-76-2		07/07/2022 16:31
8:2 FTS	ND	0.14	0.14	0.038	1	39108-34-4		07/07/2022 16:31
9-CI-PF3ON	ND	0.14	0.14	0.021	1	756426-58-1		07/07/2022 16:31
PFNS	ND	0.14	0.14	0.026	1	68259-12-1		07/07/2022 16:31
PFUnDA	ND	0.15	0.15	0.041	1	2058-94-8		07/07/2022 16:31
NMeFOSAA	ND	0.15	0.15	0.034	1	2355-31-9		07/07/2022 16:31
NEtFOSAA	ND	0.15	0.15	0.036	1	2991-50-6		07/07/2022 16:31
PFDS	ND	0.14	0.14	0.037	1	335-77-3		07/07/2022 16:31
PFDOA	ND	0.15	0.15	0.039	1	307-55-1		07/07/2022 16:31
11-CI-PF3OUdS	ND	0.14	0.14	0.024	1	763051-92-9		07/07/2022 16:31
PFTTrDA	ND	0.15	0.15	0.031	1	72629-94-8		07/07/2022 16:31
PFTDA	ND	0.15	0.15	0.047	1	376-06-7		07/07/2022 16:31

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB130-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607002-R	Percent Moisture	32.357%
Lab File ID	Q220707A_024	Dry Weight Extracted	3.43g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 14:26	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.5	0.76	52	50-150		07/07/2022 16:31
13C4 PFOA	1.5	0.69	47	50-150	R	07/07/2022 16:31
13C2 PFDA	1.5	1.1	74	50-150		07/07/2022 16:31
13C4 PFOS	1.4	1.0	72	50-150		07/07/2022 16:31

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.5	0.59	41	50-150	R	07/07/2022 16:31
13C5 PFPeA	1.5	0.64	44	50-150	R	07/07/2022 16:31
13C3 PFBS	1.4	0.80	59	50-150		07/07/2022 16:31
13C2 4:2FTS	1.4	3.0	218	50-150	R	07/07/2022 16:31
13C5 PFHxA	1.5	0.65	45	50-150	R	07/07/2022 16:31
13C4 PFHpA	1.5	0.64	44	50-150	R	07/07/2022 16:31
13C3 PFHxS	1.4	0.72	52	50-150		07/07/2022 16:31
13C2 6:2FTS	1.4	3.5	252	50-150	R	07/07/2022 16:31
13C8 PFOA	1.5	0.67	46	50-150	R	07/07/2022 16:31
13C9 PFNA	1.5	0.70	48	50-150	R	07/07/2022 16:31
13C8 PFOS	1.4	0.77	55	50-150		07/07/2022 16:31
13C2 8:2FTS	1.4	3.8	271	50-150	R	07/07/2022 16:31
13C6 PFDA	1.5	0.87	60	50-150		07/07/2022 16:31
d3-MeFOSAA	1.5	1.7	117	50-150		07/07/2022 16:31
13C8 PFOSA	1.5	0.64	44	50-150	R	07/07/2022 16:31
d5-EtFOSAA	1.5	1.5	106	50-150		07/07/2022 16:31
13C7 PFUdA	1.5	0.86	59	50-150		07/07/2022 16:31
13C2 PFDoA	1.5	0.91	63	50-150		07/07/2022 16:31
13C2 PFTeDA	1.5	0.99	68	50-150		07/07/2022 16:31
13C3 HFPO-DA	1.5	0.51	35	50-150	R	07/07/2022 16:31
13C2 PFHxDA	1.5	0.43	30	50-150	R	07/07/2022 16:31
d3-N-MeFOSA	1.5	0.18	12	10-150		07/07/2022 16:31

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB130-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607002-R	Percent Moisture	32.357%
Lab File ID	Q220707A_024	Dry Weight Extracted	3.43g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 14:26	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.23	6.19	80		07/07/2022 16:31
13C4 PFOA	N/A	N/A	7.53	7.50	13	R	07/07/2022 16:31
13C2 PFDA	N/A	N/A	8.83	8.81	51		07/07/2022 16:31
13C4 PFOS	N/A	N/A	9.25	9.23	46		07/07/2022 16:31

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.70	4.75	17	R	07/07/2022 16:31
13C5 PFPeA	N/A	N/A	5.55	5.53	11	R	07/07/2022 16:31
13C3 PFBS	N/A	N/A	6.44	6.39	67		07/07/2022 16:31
13C2 4:2FTS	N/A	N/A	5.96	5.95	22	R	07/07/2022 16:31
13C5 PFHxA	N/A	N/A	6.23	6.23	87	R	07/07/2022 16:31
13C4 PFHpA	N/A	N/A	6.89	6.87	78	R	07/07/2022 16:31
13C3 PFHxS	N/A	N/A	7.89	7.90	68		07/07/2022 16:31
13C2 6:2FTS	N/A	N/A	7.21	7.19	35	R	07/07/2022 16:31
13C8 PFOA	N/A	N/A	7.53	7.50	12	R	07/07/2022 16:31
13C9 PFNA	N/A	N/A	8.18	8.15	74	R	07/07/2022 16:31
13C8 PFOS	N/A	N/A	9.25	9.24	39		07/07/2022 16:31
13C2 8:2FTS	N/A	N/A	8.47	8.44	25	R	07/07/2022 16:31
13C6 PFDA	N/A	N/A	8.84	8.81	67		07/07/2022 16:31
d3-MeFOSAA	N/A	N/A	8.75	8.72	60		07/07/2022 16:31
13C8 PFOSA	N/A	N/A	11.34	11.32	97	R	07/07/2022 16:31
d5-EtFOSAA	N/A	N/A	9.05	9.03	65		07/07/2022 16:31
13C7 PFUdA	N/A	N/A	9.49	9.46	78		07/07/2022 16:31
13C2 PFDoA	N/A	N/A	10.15	10.12	35		07/07/2022 16:31
13C2 PFTeDA	N/A	N/A	11.41	11.40	65		07/07/2022 16:31
13C3 HFPO-DA	N/A	N/A	6.50	6.48	50	R	07/07/2022 16:31
13C2 PFHxDA	N/A	N/A	12.49	12.50	72	R	07/07/2022 16:31
d3-N-MeFOSA	N/A	N/A	13.22	13.21	27		07/07/2022 16:31

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB130-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607002-R	Percent Moisture	32.357%
Lab File ID	Q220707A_024	Dry Weight Extracted	3.43g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 14:26	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.70	4.77	92		07/07/2022 16:31
PFPeA	N/A	N/A	5.55	5.54	11		07/07/2022 16:31
HFPO-DA	0.00	0.43	0.00	6.44	ND		07/07/2022 16:31
PFBS	0.29	0.34	6.45	6.40	ND		07/07/2022 16:31
PFHxA	0.09	0.08	6.24	6.17	74		07/07/2022 16:31
4:2 FTS	6.10	0.98	5.89	5.91	ND		07/07/2022 16:31
PFPeS	0.36	0.40	7.20	7.22	ND		07/07/2022 16:31
PFHpA	0.43	0.42	6.90	6.81	16		07/07/2022 16:31
DONA	0.00	0.43	0.00	7.11	ND		07/07/2022 16:31
PFHxS	0.32	0.33	7.90	7.92	35		07/07/2022 16:31
PFOA	0.34	0.33	7.54	7.51	80		07/07/2022 16:31
6:2 FTS	1.20	1.30	7.21	7.17	ND		07/07/2022 16:31
PFHpS	0.20	0.36	8.60	8.57	ND		07/07/2022 16:31
PFNA	0.23	0.27	8.19	8.16	ND		07/07/2022 16:31
PFOSAm	N/A	N/A	11.36	11.33	ND		07/07/2022 16:31
PFOS	0.17	0.24	9.25	9.24	11		07/07/2022 16:31
MeFOSA	0.00	0.40	0.00	13.23	ND		07/07/2022 16:31
PFDA	0.17	0.18	8.84	8.82	ND		07/07/2022 16:31
8:2 FTS	0.00	1.40	0.00	8.45	ND		07/07/2022 16:31
9-Cl-PF3ON	0.00	0.04	0.00	9.72	ND		07/07/2022 16:31
PFNS	0.00	0.22	0.00	9.90	ND		07/07/2022 16:31
PFUnDA	0.00	0.16	9.51	9.47	ND		07/07/2022 16:31
NMeFOSAA	0.00	0.89	0.00	8.73	ND		07/07/2022 16:31
NEtFOSAA	0.00	0.51	0.00	9.04	ND		07/07/2022 16:31
PFDS	0.00	0.27	0.00	10.55	ND		07/07/2022 16:31
PFDOA	0.00	0.18	0.00	10.13	ND		07/07/2022 16:31
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/07/2022 16:31
PFTrDA	0.00	0.20	0.00	10.77	ND		07/07/2022 16:31
PFTDA	0.00	0.13	0.00	11.40	ND		07/07/2022 16:31

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB148-1
 Lab Sample ID 10609607003
 Lab File ID Q220622A_014
 Matrix Soil
 Collected 05/19/2022 13:23
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.07g
 Percent Moisture 19.2378%
 Dry Weight Extracted 4.09g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File Q220622A_010

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.099	0.023	1	375-22-4		06/22/2022 12:23
PFPeA	ND	0.099	0.099	0.026	1	2706-90-3		06/22/2022 12:23
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/22/2022 12:23
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/22/2022 12:23
PFHxA	ND	0.099	0.099	0.030	1	307-24-4		06/22/2022 12:23
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/22/2022 12:23
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/22/2022 12:23
PFHpA	ND	0.099	0.099	0.022	1	375-85-9		06/22/2022 12:23
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/22/2022 12:23
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/22/2022 12:23
PFOA	ND	0.099	0.099	0.022	1	335-67-1		06/22/2022 12:23
6:2 FTS	ND	0.094	0.094	0.032	1	27619-97-2		06/22/2022 12:23
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/22/2022 12:23
PFNA	ND	0.099	0.099	0.028	1	375-95-1		06/22/2022 12:23
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/22/2022 12:23
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/22/2022 12:23
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/22/2022 12:23
PFDA	ND	0.099	0.099	0.021	1	335-76-2		06/22/2022 12:23
8:2 FTS	ND	0.095	0.095	0.026	1	39108-34-4		06/22/2022 12:23
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/22/2022 12:23
PFNS	ND	0.095	0.095	0.018	1	68259-12-1		06/22/2022 12:23
PFUnDA	ND	0.099	0.099	0.028	1	2058-94-8		06/22/2022 12:23
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/22/2022 12:23
NEtFOSAA	ND	0.099	0.099	0.024	1	2991-50-6		06/22/2022 12:23
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/22/2022 12:23
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/22/2022 12:23
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/22/2022 12:23
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/22/2022 12:23
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/22/2022 12:23

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB148-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607003	Percent Moisture	19.2378%
Lab File ID	Q220622A_014	Dry Weight Extracted	4.09g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 13:23	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	1.1	110	50-150		06/22/2022 12:23
13C4 PFOA	0.99	0.88	90	50-150		06/22/2022 12:23
13C2 PFDA	0.99	1.1	109	50-150		06/22/2022 12:23
13C4 PFOS	0.94	1.1	113	50-150		06/22/2022 12:23

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.75	76	50-150		06/22/2022 12:23
13C5 PFPeA	0.99	0.75	76	50-150		06/22/2022 12:23
13C3 PFBS	0.92	0.61	66	50-150		06/22/2022 12:23
13C2 4:2FTS	0.92	1.2	131	50-150		06/22/2022 12:23
13C5 PFHxA	0.99	0.86	88	50-150		06/22/2022 12:23
13C4 PFHpA	0.99	0.87	88	50-150		06/22/2022 12:23
13C3 PFHxS	0.93	0.81	87	50-150		06/22/2022 12:23
13C2 6:2FTS	0.94	1.6	174	50-150	R	06/22/2022 12:23
13C8 PFOA	0.99	0.89	90	50-150		06/22/2022 12:23
13C9 PFNA	0.99	0.96	98	50-150		06/22/2022 12:23
13C8 PFOS	0.94	0.81	86	50-150		06/22/2022 12:23
13C2 8:2FTS	0.94	2.3	241	50-150	R	06/22/2022 12:23
13C6 PFDA	0.99	0.94	96	50-150		06/22/2022 12:23
d3-MeFOSAA	0.99	1.3	132	50-150		06/22/2022 12:23
13C8 PFOSA	0.99	0.44	44	50-150	R	06/22/2022 12:23
d5-EtFOSAA	0.99	1.3	127	50-150		06/22/2022 12:23
13C7 PFUdA	0.99	0.93	95	50-150		06/22/2022 12:23
13C2 PFDoA	0.99	1.2	118	50-150		06/22/2022 12:23
13C2 PFTeDA	0.99	1.0	105	50-150		06/22/2022 12:23
13C3 HFPO-DA	0.99	0.72	73	50-150		06/22/2022 12:23
13C2 PFHxDA	0.99	0.71	72	50-150		06/22/2022 12:23
d3-N-MeFOSA	0.99	0.017	2	10-150	R	06/22/2022 12:23

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB148-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607003	Percent Moisture	19.2378%
Lab File ID	Q220622A_014	Dry Weight Extracted	4.09g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 13:23	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	10		06/22/2022 12:23
13C4 PFOA	N/A	N/A	7.43	7.44	16		06/22/2022 12:23
13C2 PFDA	N/A	N/A	8.71	8.74	11		06/22/2022 12:23
13C4 PFOS	N/A	N/A	9.12	9.16	10		06/22/2022 12:23

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.74	4.75	21		06/22/2022 12:23
13C5 PFPeA	N/A	N/A	5.52	5.53	13		06/22/2022 12:23
13C3 PFBS	N/A	N/A	6.38	6.39	10		06/22/2022 12:23
13C2 4:2FTS	N/A	N/A	5.89	5.90	32		06/22/2022 12:23
13C5 PFHxA	N/A	N/A	6.16	6.17	95		06/22/2022 12:23
13C4 PFHpA	N/A	N/A	6.80	6.80	94		06/22/2022 12:23
13C3 PFHxS	N/A	N/A	7.79	7.81	10		06/22/2022 12:23
13C2 6:2FTS	N/A	N/A	7.10	7.10	48	R	06/22/2022 12:23
13C8 PFOA	N/A	N/A	7.43	7.43	12		06/22/2022 12:23
13C9 PFNA	N/A	N/A	8.07	8.08	12		06/22/2022 12:23
13C8 PFOS	N/A	N/A	9.14	9.17	72		06/22/2022 12:23
13C2 8:2FTS	N/A	N/A	8.35	8.38	83	R	06/22/2022 12:23
13C6 PFDA	N/A	N/A	8.71	8.75	12		06/22/2022 12:23
d3-MeFOSAA	N/A	N/A	8.62	8.65	95		06/22/2022 12:23
13C8 PFOSA	N/A	N/A	11.20	11.18	82	R	06/22/2022 12:23
d5-EtFOSAA	N/A	N/A	8.92	8.95	95		06/22/2022 12:23
13C7 PFUdA	N/A	N/A	9.36	9.40	12		06/22/2022 12:23
13C2 PFDoA	N/A	N/A	10.01	10.05	56		06/22/2022 12:23
13C2 PFTeDA	N/A	N/A	11.26	11.30	10		06/22/2022 12:23
13C3 HFPO-DA	N/A	N/A	6.42	6.43	69		06/22/2022 12:23
13C2 PFHxDA	N/A	N/A	12.35	12.39	16		06/22/2022 12:23
d3-N-MeFOSA	N/A	N/A	13.08	13.07	75	R	06/22/2022 12:23

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB148-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607003	Percent Moisture	19.2378%
Lab File ID	Q220622A_014	Dry Weight Extracted	4.09g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 13:23	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.75	4.77	ND		06/22/2022 12:23
PFPeA	N/A	N/A	5.53	5.54	ND		06/22/2022 12:23
HFPO-DA	0.00	0.55	0.00	6.44	ND		06/22/2022 12:23
PFBS	0.70	0.37	6.39	6.40	ND		06/22/2022 12:23
PFHxA	0.00	0.09	6.17	6.17	ND		06/22/2022 12:23
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/22/2022 12:23
PFPeS	0.00	0.37	0.00	7.12	ND		06/22/2022 12:23
PFHpA	0.93	0.48	6.80	6.81	ND		06/22/2022 12:23
DONA	0.00	0.49	0.00	7.04	ND		06/22/2022 12:23
PFHxS	0.53	0.32	7.81	7.82	ND		06/22/2022 12:23
PFOA	0.47	0.26	7.44	7.44	ND		06/22/2022 12:23
6:2 FTS	0.89	1.30	7.11	7.12	ND		06/22/2022 12:23
PFHpS	0.00	0.26	0.00	8.51	ND		06/22/2022 12:23
PFNA	0.00	0.24	0.00	8.10	ND		06/22/2022 12:23
PFOSAm	N/A	N/A	11.21	11.19	ND		06/22/2022 12:23
PFOS	0.16	0.20	9.14	9.18	ND		06/22/2022 12:23
MeFOSA	0.00	0.47	0.00	13.09	ND		06/22/2022 12:23
PFDA	0.00	0.21	0.00	8.75	ND		06/22/2022 12:23
8:2 FTS	0.00	1.50	0.00	8.38	ND		06/22/2022 12:23
9-Cl-PF3ON	0.00	0.06	0.00	9.66	ND		06/22/2022 12:23
PFNS	0.00	0.25	0.00	9.83	ND		06/22/2022 12:23
PFUnDA	0.00	0.17	0.00	9.40	ND		06/22/2022 12:23
NMeFOSAA	0.00	0.88	0.00	8.66	ND		06/22/2022 12:23
NEtFOSAA	0.00	0.47	0.00	8.96	ND		06/22/2022 12:23
PFDS	0.00	0.27	0.00	10.47	ND		06/22/2022 12:23
PFDOA	0.00	0.19	0.00	10.05	ND		06/22/2022 12:23
11-Cl-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/22/2022 12:23
PFTTrDA	0.00	0.21	0.00	10.69	ND		06/22/2022 12:23
PFTDA	0.00	0.17	0.00	11.30	ND		06/22/2022 12:23

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB146-1
 Lab Sample ID 10609607004-R
 Lab File ID Q220707A_015
 Matrix Soil
 Collected 05/19/2022 13:10
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.06g
 Percent Moisture 28.3757%
 Dry Weight Extracted 3.63g
 Ical ID 220629B01
 CCal File Q220707A_011
 Ending CCal File Q220707A_018
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.14	0.14	0.033	1	375-22-4		07/07/2022 13:44
PFPeA	0.21	0.14	0.14	0.036	1	2706-90-3		07/07/2022 13:44
HFPO-DA	ND	0.14	0.14	0.041	1	13252-13-6		07/07/2022 13:44
PFBS	ND	0.12	0.12	0.030	1	375-73-5		07/07/2022 13:44
PFHxA	ND	0.14	0.14	0.041	1	307-24-4		07/07/2022 13:44
4:2 FTS	ND	0.13	0.13	0.044	1	757124-72-4		07/07/2022 13:44
PFPeS	ND	0.13	0.13	0.026	1	2706-91-4		07/07/2022 13:44
PFHpA	ND	0.14	0.14	0.031	1	375-85-9		07/07/2022 13:44
DONA	ND	0.13	0.13	0.053	1	919005-14-4		07/07/2022 13:44
PFHxS	0.37	0.13	0.13	0.031	1	355-46-4		07/07/2022 13:44
PFOA	ND	0.14	0.14	0.031	1	335-67-1		07/07/2022 13:44
6:2 FTS	ND	0.13	0.13	0.044	1	27619-97-2		07/07/2022 13:44
PFHpS	ND	0.13	0.13	0.034	1	375-92-8		07/07/2022 13:44
PFNA	ND	0.14	0.14	0.039	1	375-95-1		07/07/2022 13:44
PFOSAm	ND	0.14	0.14	0.032	1	754-91-6		07/07/2022 13:44
PFOS	0.54	0.13	0.13	0.038	1	1763-23-1		07/07/2022 13:44
MeFOSA	ND	0.14	0.14	0.034	1	31506-32-8		07/07/2022 13:44
PFDA	ND	0.14	0.14	0.030	1	335-76-2		07/07/2022 13:44
8:2 FTS	ND	0.13	0.13	0.036	1	39108-34-4		07/07/2022 13:44
9-CI-PF3ON	ND	0.13	0.13	0.020	1	756426-58-1		07/07/2022 13:44
PFNS	ND	0.13	0.13	0.025	1	68259-12-1		07/07/2022 13:44
PFUnDA	ND	0.14	0.14	0.039	1	2058-94-8		07/07/2022 13:44
NMeFOSAA	ND	0.14	0.14	0.032	1	2355-31-9		07/07/2022 13:44
NEtFOSAA	ND	0.14	0.14	0.034	1	2991-50-6		07/07/2022 13:44
PFDS	ND	0.13	0.13	0.035	1	335-77-3		07/07/2022 13:44
PFDOA	ND	0.14	0.14	0.037	1	307-55-1		07/07/2022 13:44
11-CI-PF3OUdS	ND	0.13	0.13	0.022	1	763051-92-9		07/07/2022 13:44
PFTTrDA	ND	0.14	0.14	0.030	1	72629-94-8		07/07/2022 13:44
PFTDA	ND	0.14	0.14	0.044	1	376-06-7		07/07/2022 13:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB146-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607004-R	Percent Moisture	28.3757%
Lab File ID	Q220707A_015	Dry Weight Extracted	3.63g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:10	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.4	1.1	77	50-150		07/07/2022 13:44
13C4 PFOA	1.4	1.1	82	50-150		07/07/2022 13:44
13C2 PFDA	1.4	1.4	104	50-150		07/07/2022 13:44
13C4 PFOS	1.3	1.2	89	50-150		07/07/2022 13:44

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.4	1.0	76	50-150		07/07/2022 13:44
13C5 PFPeA	1.4	0.98	71	50-150		07/07/2022 13:44
13C3 PFBS	1.3	0.92	72	50-150		07/07/2022 13:44
13C2 4:2FTS	1.3	2.9	224	50-150	R	07/07/2022 13:44
13C5 PFHxA	1.4	0.98	71	50-150		07/07/2022 13:44
13C4 PFHpA	1.4	0.92	66	50-150		07/07/2022 13:44
13C3 PFHxS	1.3	0.89	69	50-150		07/07/2022 13:44
13C2 6:2FTS	1.3	2.7	205	50-150	R	07/07/2022 13:44
13C8 PFOA	1.4	0.94	68	50-150		07/07/2022 13:44
13C9 PFNA	1.4	1.1	81	50-150		07/07/2022 13:44
13C8 PFOS	1.3	1.0	76	50-150		07/07/2022 13:44
13C2 8:2FTS	1.3	2.9	221	50-150	R	07/07/2022 13:44
13C6 PFDA	1.4	1.2	90	50-150		07/07/2022 13:44
d3-MeFOSAA	1.4	1.7	126	50-150		07/07/2022 13:44
13C8 PFOSA	1.4	0.84	61	50-150		07/07/2022 13:44
d5-EtFOSAA	1.4	1.8	131	50-150		07/07/2022 13:44
13C7 PFUdA	1.4	1.4	103	50-150		07/07/2022 13:44
13C2 PFDoA	1.4	1.4	102	50-150		07/07/2022 13:44
13C2 PFTeDA	1.4	1.4	100	50-150		07/07/2022 13:44
13C3 HFPO-DA	1.4	0.73	53	50-150		07/07/2022 13:44
13C2 PFHxDA	1.4	0.72	52	50-150		07/07/2022 13:44
d3-N-MeFOSA	1.4	0.10	8	10-150	R	07/07/2022 13:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB146-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607004-R	Percent Moisture	28.3757%
Lab File ID	Q220707A_015	Dry Weight Extracted	3.63g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:10	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.26	6.19	13		07/07/2022 13:44
13C4 PFOA	N/A	N/A	7.56	7.50	15		07/07/2022 13:44
13C2 PFDA	N/A	N/A	8.88	8.81	99		07/07/2022 13:44
13C4 PFOS	N/A	N/A	9.29	9.23	66		07/07/2022 13:44

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.74	4.75	23		07/07/2022 13:44
13C5 PFPeA	N/A	N/A	5.58	5.53	14		07/07/2022 13:44
13C3 PFBS	N/A	N/A	6.48	6.39	92		07/07/2022 13:44
13C2 4:2FTS	N/A	N/A	5.98	5.95	29	R	07/07/2022 13:44
13C5 PFHxA	N/A	N/A	6.26	6.23	87		07/07/2022 13:44
13C4 PFHpA	N/A	N/A	6.92	6.87	10		07/07/2022 13:44
13C3 PFHxS	N/A	N/A	7.93	7.90	10		07/07/2022 13:44
13C2 6:2FTS	N/A	N/A	7.24	7.19	45	R	07/07/2022 13:44
13C8 PFOA	N/A	N/A	7.56	7.50	18		07/07/2022 13:44
13C9 PFNA	N/A	N/A	8.22	8.15	15		07/07/2022 13:44
13C8 PFOS	N/A	N/A	9.29	9.24	67		07/07/2022 13:44
13C2 8:2FTS	N/A	N/A	8.51	8.44	56	R	07/07/2022 13:44
13C6 PFDA	N/A	N/A	8.87	8.81	14		07/07/2022 13:44
d3-MeFOSAA	N/A	N/A	8.78	8.72	14		07/07/2022 13:44
13C8 PFOSA	N/A	N/A	11.36	11.32	11		07/07/2022 13:44
d5-EtFOSAA	N/A	N/A	9.09	9.03	11		07/07/2022 13:44
13C7 PFUdA	N/A	N/A	9.53	9.46	15		07/07/2022 13:44
13C2 PFDoA	N/A	N/A	10.19	10.12	48		07/07/2022 13:44
13C2 PFTeDA	N/A	N/A	11.45	11.40	11		07/07/2022 13:44
13C3 HFPO-DA	N/A	N/A	6.53	6.48	11		07/07/2022 13:44
13C2 PFHxDA	N/A	N/A	12.54	12.50	16		07/07/2022 13:44
d3-N-MeFOSA	N/A	N/A	13.25	13.21	18	R	07/07/2022 13:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB146-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607004-R	Percent Moisture	28.3757%
Lab File ID	Q220707A_015	Dry Weight Extracted	3.63g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:10	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.74	4.77	ND		07/07/2022 13:44
PFPeA	N/A	N/A	5.58	5.54	14		07/07/2022 13:44
HFPO-DA	0.00	0.36	0.00	6.44	ND		07/07/2022 13:44
PFBS	0.36	0.34	6.49	6.40	ND		07/07/2022 13:44
PFHxA	0.14	0.08	6.27	6.17	ND		07/07/2022 13:44
4:2 FTS	0.00	1.10	0.00	5.91	ND		07/07/2022 13:44
PFPeS	0.40	0.34	7.24	7.22	ND		07/07/2022 13:44
PFHpA	0.52	0.39	6.93	6.81	ND		07/07/2022 13:44
DONA	0.00	0.44	0.00	7.11	ND		07/07/2022 13:44
PFHxS	0.30	0.34	7.94	7.92	30		07/07/2022 13:44
PFOA	0.29	0.30	7.57	7.51	ND		07/07/2022 13:44
6:2 FTS	1.30	1.70	7.22	7.17	ND		07/07/2022 13:44
PFHpS	0.30	0.41	8.63	8.57	ND		07/07/2022 13:44
PFNA	0.26	0.25	8.23	8.16	ND		07/07/2022 13:44
PFOSAm	N/A	N/A	11.37	11.33	ND		07/07/2022 13:44
PFOS	0.21	0.21	9.30	9.24	17		07/07/2022 13:44
MeFOSA	0.00	0.48	0.00	13.23	ND		07/07/2022 13:44
PFDA	0.17	0.15	8.88	8.82	ND		07/07/2022 13:44
8:2 FTS	0.00	1.70	0.00	8.45	ND		07/07/2022 13:44
9-Cl-PF3ON	0.00	0.03	0.00	9.72	ND		07/07/2022 13:44
PFNS	0.00	0.23	0.00	9.90	ND		07/07/2022 13:44
PFUnDA	0.14	0.17	9.54	9.47	ND		07/07/2022 13:44
NMeFOSAA	0.00	0.67	0.00	8.73	ND		07/07/2022 13:44
NEtFOSAA	0.00	0.65	0.00	9.04	ND		07/07/2022 13:44
PFDS	0.00	0.28	0.00	10.55	ND		07/07/2022 13:44
PFDOA	0.00	0.20	0.00	10.13	ND		07/07/2022 13:44
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		07/07/2022 13:44
PFTrDA	0.00	0.18	0.00	10.77	ND		07/07/2022 13:44
PFTDA	0.00	0.16	0.00	11.40	ND		07/07/2022 13:44

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB133-3
 Lab Sample ID 10609607005-R
 Lab File ID Q220707A_016
 Matrix Soil
 Collected 05/19/2022 13:50
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.10g
 Percent Moisture 25.9334%
 Dry Weight Extracted 3.78g
 Ical ID 220629B01
 CCal File Q220707A_011
 Ending CCal File Q220707A_018
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.13	0.13	0.031	1	375-22-4		07/07/2022 14:02
PFPeA	0.20	0.13	0.13	0.035	1	2706-90-3		07/07/2022 14:02
HFPO-DA	ND	0.13	0.13	0.039	1	13252-13-6		07/07/2022 14:02
PFBS	ND	0.12	0.12	0.029	1	375-73-5		07/07/2022 14:02
PFHxA	0.13	0.13	0.13	0.040	1	307-24-4		07/07/2022 14:02
4:2 FTS	ND	0.12	0.12	0.042	1	757124-72-4		07/07/2022 14:02
PFPeS	ND	0.12	0.12	0.025	1	2706-91-4		07/07/2022 14:02
PFHpA	ND	0.13	0.13	0.030	1	375-85-9		07/07/2022 14:02
DONA	ND	0.13	0.13	0.051	1	919005-14-4		07/07/2022 14:02
PFHxS	0.21	0.12	0.12	0.029	1	355-46-4		07/07/2022 14:02
PFOA	ND	0.13	0.13	0.030	1	335-67-1		07/07/2022 14:02
6:2 FTS	ND	0.13	0.13	0.042	1	27619-97-2		07/07/2022 14:02
PFHpS	ND	0.13	0.13	0.033	1	375-92-8		07/07/2022 14:02
PFNA	ND	0.13	0.13	0.038	1	375-95-1		07/07/2022 14:02
PFOSAm	ND	0.13	0.13	0.031	1	754-91-6		07/07/2022 14:02
PFOS	0.27	0.12	0.12	0.037	1	1763-23-1		07/07/2022 14:02
MeFOSA	ND	0.13	0.13	0.033	1	31506-32-8		07/07/2022 14:02
PFDA	ND	0.13	0.13	0.029	1	335-76-2		07/07/2022 14:02
8:2 FTS	ND	0.13	0.13	0.034	1	39108-34-4		07/07/2022 14:02
9-CI-PF3ON	ND	0.12	0.12	0.019	1	756426-58-1		07/07/2022 14:02
PFNS	ND	0.13	0.13	0.024	1	68259-12-1		07/07/2022 14:02
PFUnDA	ND	0.13	0.13	0.037	1	2058-94-8		07/07/2022 14:02
NMeFOSAA	ND	0.13	0.13	0.031	1	2355-31-9		07/07/2022 14:02
NEtFOSAA	ND	0.13	0.13	0.033	1	2991-50-6		07/07/2022 14:02
PFDS	ND	0.13	0.13	0.033	1	335-77-3		07/07/2022 14:02
PFDOA	ND	0.13	0.13	0.035	1	307-55-1		07/07/2022 14:02
11-CI-PF3OUdS	ND	0.12	0.12	0.021	1	763051-92-9		07/07/2022 14:02
PFTTrDA	ND	0.13	0.13	0.028	1	72629-94-8		07/07/2022 14:02
PFTDA	ND	0.13	0.13	0.042	1	376-06-7		07/07/2022 14:02

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB133-3	Total Amount Extracted	5.10g
Lab Sample ID	10609607005-R	Percent Moisture	25.9334%
Lab File ID	Q220707A_016	Dry Weight Extracted	3.78g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:50	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	0.94	71	50-150		07/07/2022 14:02
13C4 PFOA	1.3	0.89	67	50-150		07/07/2022 14:02
13C2 PFDA	1.3	1.2	92	50-150		07/07/2022 14:02
13C4 PFOS	1.3	1.0	82	50-150		07/07/2022 14:02

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	0.98	74	50-150		07/07/2022 14:02
13C5 PFPeA	1.3	0.88	66	50-150		07/07/2022 14:02
13C3 PFBS	1.2	0.89	72	50-150		07/07/2022 14:02
13C2 4:2FTS	1.2	3.8	304	50-150	R	07/07/2022 14:02
13C5 PFHxA	1.3	0.85	64	50-150		07/07/2022 14:02
13C4 PFHpA	1.3	0.73	55	50-150		07/07/2022 14:02
13C3 PFHxS	1.3	0.87	70	50-150		07/07/2022 14:02
13C2 6:2FTS	1.3	4.1	325	50-150	R	07/07/2022 14:02
13C8 PFOA	1.3	0.87	66	50-150		07/07/2022 14:02
13C9 PFNA	1.3	0.97	74	50-150		07/07/2022 14:02
13C8 PFOS	1.3	0.84	67	50-150		07/07/2022 14:02
13C2 8:2FTS	1.3	4.2	330	50-150	R	07/07/2022 14:02
13C6 PFDA	1.3	1.2	94	50-150		07/07/2022 14:02
d3-MeFOSAA	1.3	1.8	135	50-150		07/07/2022 14:02
13C8 PFOSA	1.3	0.87	65	50-150		07/07/2022 14:02
d5-EtFOSAA	1.3	2.1	160	50-150	R	07/07/2022 14:02
13C7 PFUdA	1.3	1.3	101	50-150		07/07/2022 14:02
13C2 PFDoA	1.3	1.3	96	50-150		07/07/2022 14:02
13C2 PFTeDA	1.3	1.3	100	50-150		07/07/2022 14:02
13C3 HFPO-DA	1.3	0.67	51	50-150		07/07/2022 14:02
13C2 PFHxDA	1.3	0.56	42	50-150	R	07/07/2022 14:02
d3-N-MeFOSA	1.3	0.27	20	10-150		07/07/2022 14:02

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB133-3	Total Amount Extracted	5.10g
Lab Sample ID	10609607005-R	Percent Moisture	25.9334%
Lab File ID	Q220707A_016	Dry Weight Extracted	3.78g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:50	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.25	6.19	99		07/07/2022 14:02
13C4 PFOA	N/A	N/A	7.57	7.57	12		07/07/2022 14:02
13C2 PFDA	N/A	N/A	8.88	8.81	91		07/07/2022 14:02
13C4 PFOS	N/A	N/A	9.29	9.23	65		07/07/2022 14:02

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.75	21		07/07/2022 14:02
13C5 PFPeA	N/A	N/A	5.56	5.53	13		07/07/2022 14:02
13C3 PFBS	N/A	N/A	6.47	6.39	82		07/07/2022 14:02
13C2 4:2FTS	N/A	N/A	5.97	5.95	33	R	07/07/2022 14:02
13C5 PFHxA	N/A	N/A	6.25	6.23	13		07/07/2022 14:02
13C4 PFHpA	N/A	N/A	6.91	6.87	94		07/07/2022 14:02
13C3 PFHxS	N/A	N/A	7.94	7.90	95		07/07/2022 14:02
13C2 6:2FTS	N/A	N/A	7.24	7.19	49	R	07/07/2022 14:02
13C8 PFOA	N/A	N/A	7.57	7.50	18		07/07/2022 14:02
13C9 PFNA	N/A	N/A	8.22	8.15	10		07/07/2022 14:02
13C8 PFOS	N/A	N/A	9.30	9.24	63		07/07/2022 14:02
13C2 8:2FTS	N/A	N/A	8.51	8.44	58	R	07/07/2022 14:02
13C6 PFDA	N/A	N/A	8.88	8.81	10		07/07/2022 14:02
d3-MeFOSAA	N/A	N/A	8.79	8.72	85		07/07/2022 14:02
13C8 PFOSA	N/A	N/A	11.37	11.32	12		07/07/2022 14:02
d5-EtFOSAA	N/A	N/A	9.09	9.03	69	R	07/07/2022 14:02
13C7 PFUdA	N/A	N/A	9.53	9.46	13		07/07/2022 14:02
13C2 PFDoA	N/A	N/A	10.19	10.12	45		07/07/2022 14:02
13C2 PFTeDA	N/A	N/A	11.45	11.40	10		07/07/2022 14:02
13C3 HFPO-DA	N/A	N/A	6.53	6.48	95		07/07/2022 14:02
13C2 PFHxDA	N/A	N/A	12.53	12.50	12	R	07/07/2022 14:02
d3-N-MeFOSA	N/A	N/A	13.25	13.21	31		07/07/2022 14:02

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB133-3	Total Amount Extracted	5.10g
Lab Sample ID	10609607005-R	Percent Moisture	25.9334%
Lab File ID	Q220707A_016	Dry Weight Extracted	3.78g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:50	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.72	4.77	ND		07/07/2022 14:02
PFPeA	N/A	N/A	5.57	5.54	14		07/07/2022 14:02
HFPO-DA	0.00	0.36	0.00	6.44	ND		07/07/2022 14:02
PFBS	0.51	0.34	6.47	6.40	ND		07/07/2022 14:02
PFHxA	0.10	0.08	6.26	6.17	75		07/07/2022 14:02
4:2 FTS	0.00	1.10	0.00	5.91	ND		07/07/2022 14:02
PFPeS	0.32	0.34	7.23	7.22	ND		07/07/2022 14:02
PFHpA	0.55	0.39	6.92	6.81	ND		07/07/2022 14:02
DONA	0.00	0.44	0.00	7.11	ND		07/07/2022 14:02
PFHxS	0.35	0.34	7.94	7.92	25		07/07/2022 14:02
PFOA	0.30	0.30	7.58	7.51	ND		07/07/2022 14:02
6:2 FTS	1.30	1.70	7.24	7.17	ND		07/07/2022 14:02
PFHpS	0.19	0.41	8.64	8.57	ND		07/07/2022 14:02
PFNA	0.21	0.25	8.23	8.16	ND		07/07/2022 14:02
PFOSAm	N/A	N/A	11.39	11.39	ND		07/07/2022 14:02
PFOS	0.22	0.21	9.31	9.24	13		07/07/2022 14:02
MeFOSA	0.00	0.48	0.00	13.23	ND		07/07/2022 14:02
PFDA	0.09	0.15	8.90	8.82	ND		07/07/2022 14:02
8:2 FTS	0.98	1.70	8.42	8.45	ND		07/07/2022 14:02
9-Cl-PF3ON	0.00	0.03	0.00	9.72	ND		07/07/2022 14:02
PFNS	0.00	0.23	0.00	9.90	ND		07/07/2022 14:02
PFUnDA	0.00	0.17	0.00	9.47	ND		07/07/2022 14:02
NMeFOSAA	0.00	0.67	0.00	8.73	ND		07/07/2022 14:02
NEtFOSAA	0.00	0.65	0.00	9.04	ND		07/07/2022 14:02
PFDS	0.00	0.28	0.00	10.55	ND		07/07/2022 14:02
PFDOA	0.00	0.20	0.00	10.13	ND		07/07/2022 14:02
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		07/07/2022 14:02
PFTrDA	0.00	0.18	0.00	10.77	ND		07/07/2022 14:02
PFTDA	0.00	0.16	0.00	11.40	ND		07/07/2022 14:02

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB147-1
 Lab Sample ID 10609607006
 Lab File ID Q220622A_018
 Matrix Soil
 Collected 05/19/2022 12:32
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.17g
 Percent Moisture 31.2305%
 Dry Weight Extracted 3.56g
 Ical ID 220616A01
 CCal File Q220622A_016
 Ending CCal File Q220622A_027
 Blank File Q220622A_010

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.097	0.097	0.023	1	375-22-4		06/22/2022 13:37
PFPeA	ND	0.097	0.097	0.025	1	2706-90-3		06/22/2022 13:37
HFPO-DA	ND	0.097	0.097	0.029	1	13252-13-6		06/22/2022 13:37
PFBS	ND	0.086	0.086	0.021	1	375-73-5		06/22/2022 13:37
PFHxA	ND	0.097	0.097	0.029	1	307-24-4		06/22/2022 13:37
4:2 FTS	ND	0.090	0.090	0.031	1	757124-72-4		06/22/2022 13:37
PFPeS	ND	0.091	0.091	0.018	1	2706-91-4		06/22/2022 13:37
PFHpA	ND	0.097	0.097	0.022	1	375-85-9		06/22/2022 13:37
DONA	ND	0.091	0.091	0.037	1	919005-14-4		06/22/2022 13:37
PFHxS	ND	0.088	0.088	0.021	1	355-46-4		06/22/2022 13:37
PFOA	ND	0.097	0.097	0.022	1	335-67-1		06/22/2022 13:37
6:2 FTS	ND	0.092	0.092	0.031	1	27619-97-2		06/22/2022 13:37
PFHpS	ND	0.092	0.092	0.024	1	375-92-8		06/22/2022 13:37
PFNA	ND	0.097	0.097	0.028	1	375-95-1		06/22/2022 13:37
PFOSAm	ND	0.097	0.097	0.023	1	754-91-6		06/22/2022 13:37
PFOS	ND	0.089	0.089	0.027	1	1763-23-1		06/22/2022 13:37
MeFOSA	ND	0.097	0.097	0.024	1	31506-32-8		06/22/2022 13:37
PFDA	ND	0.097	0.097	0.021	1	335-76-2		06/22/2022 13:37
8:2 FTS	ND	0.093	0.093	0.025	1	39108-34-4		06/22/2022 13:37
9-CI-PF3ON	ND	0.090	0.090	0.014	1	756426-58-1		06/22/2022 13:37
PFNS	ND	0.093	0.093	0.017	1	68259-12-1		06/22/2022 13:37
PFUnDA	ND	0.097	0.097	0.027	1	2058-94-8		06/22/2022 13:37
NMeFOSAA	ND	0.097	0.097	0.023	1	2355-31-9		06/22/2022 13:37
NEtFOSAA	ND	0.097	0.097	0.024	1	2991-50-6		06/22/2022 13:37
PFDS	ND	0.093	0.093	0.024	1	335-77-3		06/22/2022 13:37
PFDOA	ND	0.097	0.097	0.026	1	307-55-1		06/22/2022 13:37
11-CI-PF3OUdS	ND	0.091	0.091	0.016	1	763051-92-9		06/22/2022 13:37
PFTTrDA	ND	0.097	0.097	0.021	1	72629-94-8		06/22/2022 13:37
PFTDA	ND	0.097	0.097	0.031	1	376-06-7		06/22/2022 13:37

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB147-1	Total Amount Extracted	5.17g
Lab Sample ID	10609607006	Percent Moisture	31.2305%
Lab File ID	Q220622A_018	Dry Weight Extracted	3.56g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:32	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.97	0.79	81	50-150		06/22/2022 13:37
13C4 PFOA	0.97	0.62	64	50-150		06/22/2022 13:37
13C2 PFDA	0.97	0.76	78	50-150		06/22/2022 13:37
13C4 PFOS	0.93	1.0	110	50-150		06/22/2022 13:37

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.97	0.73	76	50-150		06/22/2022 13:37
13C5 PFPeA	0.97	0.62	64	50-150		06/22/2022 13:37
13C3 PFBS	0.90	1.1	127	50-150		06/22/2022 13:37
13C2 4:2FTS	0.90	2.0	223	50-150	R	06/22/2022 13:37
13C5 PFHxA	0.97	0.62	64	50-150		06/22/2022 13:37
13C4 PFHpA	0.97	0.53	55	50-150		06/22/2022 13:37
13C3 PFHxS	0.91	0.84	92	50-150		06/22/2022 13:37
13C2 6:2FTS	0.92	3.4	367	50-150	R	06/22/2022 13:37
13C8 PFOA	0.97	0.63	65	50-150		06/22/2022 13:37
13C9 PFNA	0.97	0.66	68	50-150		06/22/2022 13:37
13C8 PFOS	0.93	0.77	83	50-150		06/22/2022 13:37
13C2 8:2FTS	0.93	3.3	353	50-150	R	06/22/2022 13:37
13C6 PFDA	0.97	0.78	81	50-150		06/22/2022 13:37
d3-MeFOSAA	0.97	1.2	119	50-150		06/22/2022 13:37
13C8 PFOSA	0.97	0.44	46	50-150	R	06/22/2022 13:37
d5-EtFOSAA	0.97	0.98	101	50-150		06/22/2022 13:37
13C7 PFUdA	0.97	0.60	62	50-150		06/22/2022 13:37
13C2 PFDoA	0.97	0.40	42	50-150	R	06/22/2022 13:37
13C2 PFTeDA	0.97	0.068	7	50-150	R	06/22/2022 13:37
13C3 HFPO-DA	0.97	0.62	64	50-150		06/22/2022 13:37
13C2 PFHxDA	0.97	0.011	1	50-150	R	06/22/2022 13:37
d3-N-MeFOSA	0.97	0.16	17	10-150		06/22/2022 13:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB147-1	Total Amount Extracted	5.17g
Lab Sample ID	10609607006	Percent Moisture	31.2305%
Lab File ID	Q220622A_018	Dry Weight Extracted	3.56g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:32	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.15	6.16	95		06/22/2022 13:37
13C4 PFOA	N/A	N/A	7.43	7.44	11		06/22/2022 13:37
13C2 PFDA	N/A	N/A	8.72	8.74	46		06/22/2022 13:37
13C4 PFOS	N/A	N/A	9.14	9.16	37		06/22/2022 13:37

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	20		06/22/2022 13:37
13C5 PFPeA	N/A	N/A	5.51	5.53	11		06/22/2022 13:37
13C3 PFBS	N/A	N/A	6.37	6.39	74		06/22/2022 13:37
13C2 4:2FTS	N/A	N/A	5.88	5.90	31	R	06/22/2022 13:37
13C5 PFHxA	N/A	N/A	6.15	6.17	66		06/22/2022 13:37
13C4 PFHpA	N/A	N/A	6.79	6.80	12		06/22/2022 13:37
13C3 PFHxS	N/A	N/A	7.79	7.81	80		06/22/2022 13:37
13C2 6:2FTS	N/A	N/A	7.10	7.10	32	R	06/22/2022 13:37
13C8 PFOA	N/A	N/A	7.43	7.43	14		06/22/2022 13:37
13C9 PFNA	N/A	N/A	8.07	8.08	82		06/22/2022 13:37
13C8 PFOS	N/A	N/A	9.14	9.17	34		06/22/2022 13:37
13C2 8:2FTS	N/A	N/A	8.35	8.38	34	R	06/22/2022 13:37
13C6 PFDA	N/A	N/A	8.72	8.75	80		06/22/2022 13:37
d3-MeFOSAA	N/A	N/A	8.63	8.65	62		06/22/2022 13:37
13C8 PFOSA	N/A	N/A	11.22	11.18	11	R	06/22/2022 13:37
d5-EtFOSAA	N/A	N/A	8.93	8.95	61		06/22/2022 13:37
13C7 PFUdA	N/A	N/A	9.37	9.40	74		06/22/2022 13:37
13C2 PFDoA	N/A	N/A	10.02	10.05	30	R	06/22/2022 13:37
13C2 PFTeDA	N/A	N/A	11.27	11.30	27	R	06/22/2022 13:37
13C3 HFPO-DA	N/A	N/A	6.41	6.43	93		06/22/2022 13:37
13C2 PFHxDA	N/A	N/A	12.36	12.39	10	R	06/22/2022 13:37
d3-N-MeFOSA	N/A	N/A	13.11	13.07	12		06/22/2022 13:37

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB147-1	Total Amount Extracted	5.17g
Lab Sample ID	10609607006	Percent Moisture	31.2305%
Lab File ID	Q220622A_018	Dry Weight Extracted	3.56g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:32	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.73	4.77	ND		06/22/2022 13:37
PFPeA	N/A	N/A	5.52	5.54	ND		06/22/2022 13:37
HFPO-DA	0.00	0.40	0.00	6.44	ND		06/22/2022 13:37
PFBS	0.95	0.29	6.39	6.40	ND		06/22/2022 13:37
PFHxA	0.19	0.08	6.16	6.17	ND		06/22/2022 13:37
4:2 FTS	0.00	0.99	0.00	5.91	ND		06/22/2022 13:37
PFPeS	0.00	0.40	0.00	7.12	ND		06/22/2022 13:37
PFHpA	0.62	0.62	6.80	6.81	ND		06/22/2022 13:37
DONA	0.00	0.47	0.00	7.04	ND		06/22/2022 13:37
PFHxS	0.44	0.29	7.80	7.82	ND		06/22/2022 13:37
PFOA	0.37	0.32	7.43	7.44	ND		06/22/2022 13:37
6:2 FTS	2.10	1.40	7.10	7.12	ND		06/22/2022 13:37
PFHpS	0.00	0.38	0.00	8.51	ND		06/22/2022 13:37
PFNA	0.00	0.22	0.00	8.10	ND		06/22/2022 13:37
PFOSAm	N/A	N/A	11.22	11.19	ND		06/22/2022 13:37
PFOS	0.16	0.25	9.06	9.18	ND		06/22/2022 13:37
MeFOSA	0.00	0.42	0.00	13.09	ND		06/22/2022 13:37
PFDA	0.00	0.20	0.00	8.75	ND		06/22/2022 13:37
8:2 FTS	0.00	1.70	0.00	8.38	ND		06/22/2022 13:37
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/22/2022 13:37
PFNS	0.00	0.23	0.00	9.83	ND		06/22/2022 13:37
PFUnDA	0.00	0.22	0.00	9.40	ND		06/22/2022 13:37
NMeFOSAA	0.00	0.64	0.00	8.66	ND		06/22/2022 13:37
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/22/2022 13:37
PFDS	0.00	0.26	0.00	10.47	ND		06/22/2022 13:37
PFDOA	0.00	0.21	0.00	10.05	ND		06/22/2022 13:37
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/22/2022 13:37
PFTrDA	0.00	0.23	0.00	10.69	ND		06/22/2022 13:37
PFTDA	0.00	0.15	0.00	11.30	ND		06/22/2022 13:37

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB131-1
 Lab Sample ID 10609607007-R
 Lab File ID Q220707A_019
 Matrix Soil
 Collected 05/19/2022 14:39
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.01g
 Percent Moisture 35.7501%
 Dry Weight Extracted 3.22g
 Ical ID 220629B01
 CCal File Q220707A_018
 Ending CCal File Q220707A_027
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.16	0.16	0.037	1	375-22-4		07/07/2022 14:58
PFPeA	ND	0.16	0.16	0.041	1	2706-90-3		07/07/2022 14:58
HFPO-DA	ND	0.16	0.16	0.046	1	13252-13-6		07/07/2022 14:58
PFBS	ND	0.14	0.14	0.034	1	375-73-5		07/07/2022 14:58
PFHxA	ND	0.16	0.16	0.047	1	307-24-4		07/07/2022 14:58
4:2 FTS	ND	0.15	0.15	0.049	1	757124-72-4		07/07/2022 14:58
PFPeS	0.15	0.15	0.15	0.029	1	2706-91-4		07/07/2022 14:58
PFHpA	ND	0.16	0.16	0.035	1	375-85-9		07/07/2022 14:58
DONA	ND	0.15	0.15	0.060	1	919005-14-4		07/07/2022 14:58
PFHxS	1.2	0.14	0.14	0.035	1	355-46-4		07/07/2022 14:58
PFOA	ND	0.16	0.16	0.035	1	335-67-1		07/07/2022 14:58
6:2 FTS	ND	0.15	0.15	0.050	1	27619-97-2		07/07/2022 14:58
PFHpS	ND	0.15	0.15	0.039	1	375-92-8		07/07/2022 14:58
PFNA	ND	0.16	0.16	0.044	1	375-95-1		07/07/2022 14:58
PFOSAm	ND	0.16	0.16	0.037	1	754-91-6		07/07/2022 14:58
PFOS	2.2	0.14	0.14	0.043	1	1763-23-1		07/07/2022 14:58
MeFOSA	ND	0.16	0.16	0.039	1	31506-32-8		07/07/2022 14:58
PFDA	ND	0.16	0.16	0.034	1	335-76-2		07/07/2022 14:58
8:2 FTS	ND	0.15	0.15	0.040	1	39108-34-4		07/07/2022 14:58
9-CI-PF3ON	ND	0.14	0.14	0.023	1	756426-58-1		07/07/2022 14:58
PFNS	ND	0.15	0.15	0.028	1	68259-12-1		07/07/2022 14:58
PFUnDA	ND	0.16	0.16	0.044	1	2058-94-8		07/07/2022 14:58
NMeFOSAA	ND	0.16	0.16	0.036	1	2355-31-9		07/07/2022 14:58
NEtFOSAA	ND	0.16	0.16	0.038	1	2991-50-6		07/07/2022 14:58
PFDS	ND	0.15	0.15	0.039	1	335-77-3		07/07/2022 14:58
PFDOA	ND	0.16	0.16	0.041	1	307-55-1		07/07/2022 14:58
11-CI-PF3OUdS	ND	0.15	0.15	0.025	1	763051-92-9		07/07/2022 14:58
PFTTrDA	ND	0.16	0.16	0.033	1	72629-94-8		07/07/2022 14:58
PFTDA	ND	0.16	0.16	0.050	1	376-06-7		07/07/2022 14:58

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB131-1	Total Amount Extracted	5.01g
Lab Sample ID	10609607007-R	Percent Moisture	35.7501%
Lab File ID	Q220707A_019	Dry Weight Extracted	3.22g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 14:39	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.6	0.82	53	50-150		07/07/2022 14:58
13C4 PFOA	1.6	0.67	43	50-150	R	07/07/2022 14:58
13C2 PFDA	1.6	1.1	68	50-150		07/07/2022 14:58
13C4 PFOS	1.5	0.91	61	50-150		07/07/2022 14:58

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.6	0.85	55	50-150		07/07/2022 14:58
13C5 PFPeA	1.6	0.80	51	50-150		07/07/2022 14:58
13C3 PFBS	1.4	0.94	65	50-150		07/07/2022 14:58
13C2 4:2FTS	1.5	3.4	237	50-150	R	07/07/2022 14:58
13C5 PFHxA	1.6	0.76	49	50-150	R	07/07/2022 14:58
13C4 PFHpA	1.6	0.62	40	50-150	R	07/07/2022 14:58
13C3 PFHxS	1.5	0.73	50	50-150		07/07/2022 14:58
13C2 6:2FTS	1.5	3.4	232	50-150	R	07/07/2022 14:58
13C8 PFOA	1.6	0.68	44	50-150	R	07/07/2022 14:58
13C9 PFNA	1.6	0.73	47	50-150	R	07/07/2022 14:58
13C8 PFOS	1.5	0.75	50	50-150		07/07/2022 14:58
13C2 8:2FTS	1.5	3.9	259	50-150	R	07/07/2022 14:58
13C6 PFDA	1.6	0.86	55	50-150		07/07/2022 14:58
d3-MeFOSAA	1.6	1.6	100	50-150		07/07/2022 14:58
13C8 PFOSA	1.6	0.65	41	50-150	R	07/07/2022 14:58
d5-EtFOSAA	1.6	1.5	99	50-150		07/07/2022 14:58
13C7 PFUdA	1.6	0.86	55	50-150		07/07/2022 14:58
13C2 PFDoA	1.6	0.92	59	50-150		07/07/2022 14:58
13C2 PFTeDA	1.6	1.2	75	50-150		07/07/2022 14:58
13C3 HFPO-DA	1.6	0.59	38	50-150	R	07/07/2022 14:58
13C2 PFHxDA	1.6	0.60	38	50-150	R	07/07/2022 14:58
d3-N-MeFOSA	1.6	0.38	24	10-150		07/07/2022 14:58

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB131-1	Total Amount Extracted	5.01g
Lab Sample ID	10609607007-R	Percent Moisture	35.7501%
Lab File ID	Q220707A_019	Dry Weight Extracted	3.22g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 14:39	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.24	6.19	10		07/07/2022 14:58
13C4 PFOA	N/A	N/A	7.56	7.50	10	R	07/07/2022 14:58
13C2 PFDA	N/A	N/A	8.86	8.81	42		07/07/2022 14:58
13C4 PFOS	N/A	N/A	9.28	9.23	43		07/07/2022 14:58

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.75	18		07/07/2022 14:58
13C5 PFPeA	N/A	N/A	5.55	5.53	11		07/07/2022 14:58
13C3 PFBS	N/A	N/A	6.46	6.39	77		07/07/2022 14:58
13C2 4:2FTS	N/A	N/A	5.96	5.95	22	R	07/07/2022 14:58
13C5 PFHxA	N/A	N/A	6.24	6.23	56	R	07/07/2022 14:58
13C4 PFHpA	N/A	N/A	6.91	6.87	96	R	07/07/2022 14:58
13C3 PFHxS	N/A	N/A	7.92	7.90	69		07/07/2022 14:58
13C2 6:2FTS	N/A	N/A	7.23	7.19	25	R	07/07/2022 14:58
13C8 PFOA	N/A	N/A	7.56	7.56	84	R	07/07/2022 14:58
13C9 PFNA	N/A	N/A	8.21	8.15	59	R	07/07/2022 14:58
13C8 PFOS	N/A	N/A	9.28	9.24	38		07/07/2022 14:58
13C2 8:2FTS	N/A	N/A	8.50	8.44	40	R	07/07/2022 14:58
13C6 PFDA	N/A	N/A	8.86	8.81	63		07/07/2022 14:58
d3-MeFOSAA	N/A	N/A	8.77	8.72	54		07/07/2022 14:58
13C8 PFOSA	N/A	N/A	11.36	11.32	92	R	07/07/2022 14:58
d5-EtFOSAA	N/A	N/A	9.08	9.03	86		07/07/2022 14:58
13C7 PFUdA	N/A	N/A	9.52	9.46	69		07/07/2022 14:58
13C2 PFDoA	N/A	N/A	10.18	10.12	45		07/07/2022 14:58
13C2 PFTeDA	N/A	N/A	11.44	11.40	64		07/07/2022 14:58
13C3 HFPO-DA	N/A	N/A	6.51	6.48	60	R	07/07/2022 14:58
13C2 PFHxDA	N/A	N/A	12.52	12.50	10	R	07/07/2022 14:58
d3-N-MeFOSA	N/A	N/A	13.24	13.21	18		07/07/2022 14:58

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB131-1	Total Amount Extracted	5.01g
Lab Sample ID	10609607007-R	Percent Moisture	35.7501%
Lab File ID	Q220707A_019	Dry Weight Extracted	3.22g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 14:39	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.72	4.77	ND		07/07/2022 14:58
PFPeA	N/A	N/A	5.56	5.54	ND		07/07/2022 14:58
HFPO-DA	0.00	0.43	0.00	6.44	ND		07/07/2022 14:58
PFBS	0.44	0.34	6.47	6.40	ND		07/07/2022 14:58
PFHxA	0.09	0.08	6.25	6.17	ND		07/07/2022 14:58
4:2 FTS	0.00	0.98	0.00	5.91	ND		07/07/2022 14:58
PFPeS	0.33	0.40	7.23	7.22	95		07/07/2022 14:58
PFHpA	0.73	0.42	6.92	6.81	ND		07/07/2022 14:58
DONA	0.00	0.43	0.00	7.11	ND		07/07/2022 14:58
PFHxS	0.32	0.33	7.93	7.92	49		07/07/2022 14:58
PFOA	0.30	0.33	7.56	7.51	ND		07/07/2022 14:58
6:2 FTS	0.00	1.30	0.00	7.17	ND		07/07/2022 14:58
PFHpS	0.14	0.36	8.63	8.57	ND		07/07/2022 14:58
PFNA	0.18	0.27	8.21	8.16	ND		07/07/2022 14:58
PFOSAm	N/A	N/A	11.37	11.33	ND		07/07/2022 14:58
PFOS	0.23	0.24	9.29	9.24	24		07/07/2022 14:58
MeFOSA	0.00	0.40	0.00	13.23	ND		07/07/2022 14:58
PFDA	0.16	0.18	8.87	8.82	ND		07/07/2022 14:58
8:2 FTS	0.00	1.40	0.00	8.45	ND		07/07/2022 14:58
9-Cl-PF3ON	0.00	0.04	0.00	9.72	ND		07/07/2022 14:58
PFNS	0.00	0.22	9.94	9.90	ND		07/07/2022 14:58
PFUnDA	0.19	0.16	9.53	9.47	ND		07/07/2022 14:58
NMeFOSAA	0.00	0.89	0.00	8.73	ND		07/07/2022 14:58
NEtFOSAA	0.00	0.51	0.00	9.04	ND		07/07/2022 14:58
PFDS	0.00	0.27	0.00	10.55	ND		07/07/2022 14:58
PFDOA	0.00	0.18	0.00	10.13	ND		07/07/2022 14:58
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/07/2022 14:58
PFTrDA	0.24	0.20	10.83	10.77	ND		07/07/2022 14:58
PFTDA	0.00	0.13	0.00	11.40	ND		07/07/2022 14:58

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB129-1
 Lab Sample ID 10609607008
 Lab File ID Q220622A_020
 Matrix Soil
 Collected 05/19/2022 14:12
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.11g
 Percent Moisture 22.395%
 Dry Weight Extracted 3.97g
 Ical ID 220616A01
 CCal File Q220622A_016
 Ending CCal File Q220622A_027
 Blank File Q220622A_010

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.13	0.13	0.030	1	375-22-4		06/22/2022 14:15
PFPeA	ND	0.13	0.13	0.033	1	2706-90-3		06/22/2022 14:15
HFPO-DA	ND	0.13	0.13	0.037	1	13252-13-6		06/22/2022 14:15
PFBS	ND	0.11	0.11	0.028	1	375-73-5		06/22/2022 14:15
PFHxA	ND	0.13	0.13	0.038	1	307-24-4		06/22/2022 14:15
4:2 FTS	ND	0.12	0.12	0.040	1	757124-72-4		06/22/2022 14:15
PFPeS	ND	0.12	0.12	0.023	1	2706-91-4		06/22/2022 14:15
PFHpA	ND	0.13	0.13	0.028	1	375-85-9		06/22/2022 14:15
DONA	ND	0.12	0.12	0.048	1	919005-14-4		06/22/2022 14:15
PFHxS	ND	0.11	0.11	0.028	1	355-46-4		06/22/2022 14:15
PFOA	ND	0.13	0.13	0.028	1	335-67-1		06/22/2022 14:15
6:2 FTS	ND	0.12	0.12	0.040	1	27619-97-2		06/22/2022 14:15
PFHpS	ND	0.12	0.12	0.032	1	375-92-8		06/22/2022 14:15
PFNA	ND	0.13	0.13	0.036	1	375-95-1		06/22/2022 14:15
PFOSAm	ND	0.13	0.13	0.030	1	754-91-6		06/22/2022 14:15
PFOS	ND	0.12	0.12	0.035	1	1763-23-1		06/22/2022 14:15
MeFOSA	ND	0.13	0.13	0.031	1	31506-32-8		06/22/2022 14:15
PFDA	ND	0.13	0.13	0.027	1	335-76-2		06/22/2022 14:15
8:2 FTS	ND	0.12	0.12	0.033	1	39108-34-4		06/22/2022 14:15
9-CI-PF3ON	ND	0.12	0.12	0.018	1	756426-58-1		06/22/2022 14:15
PFNS	ND	0.12	0.12	0.023	1	68259-12-1		06/22/2022 14:15
PFUnDA	ND	0.13	0.13	0.035	1	2058-94-8		06/22/2022 14:15
NMeFOSAA	ND	0.13	0.13	0.029	1	2355-31-9		06/22/2022 14:15
NEtFOSAA	ND	0.13	0.13	0.031	1	2991-50-6		06/22/2022 14:15
PFDS	ND	0.12	0.12	0.032	1	335-77-3		06/22/2022 14:15
PFDOA	ND	0.13	0.13	0.034	1	307-55-1		06/22/2022 14:15
11-CI-PF3OUdS	ND	0.12	0.12	0.020	1	763051-92-9		06/22/2022 14:15
PFTTrDA	ND	0.13	0.13	0.027	1	72629-94-8		06/22/2022 14:15
PFTDA	ND	0.13	0.13	0.040	1	376-06-7		06/22/2022 14:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB129-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607008	Percent Moisture	22.395%
Lab File ID	Q220622A_020	Dry Weight Extracted	3.97g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 14:12	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.3	1.3	104	50-150		06/22/2022 14:15
13C4 PFOA	1.3	1.2	99	50-150		06/22/2022 14:15
13C2 PFDA	1.3	1.2	97	50-150		06/22/2022 14:15
13C4 PFOS	1.2	1.4	113	50-150		06/22/2022 14:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.3	1.2	95	50-150		06/22/2022 14:15
13C5 PFPeA	1.3	1.1	89	50-150		06/22/2022 14:15
13C3 PFBS	1.2	1.3	109	50-150		06/22/2022 14:15
13C2 4:2FTS	1.2	1.8	157	50-150	R	06/22/2022 14:15
13C5 PFHxA	1.3	0.94	74	50-150		06/22/2022 14:15
13C4 PFHpA	1.3	0.84	67	50-150		06/22/2022 14:15
13C3 PFHxS	1.2	1.0	88	50-150		06/22/2022 14:15
13C2 6:2FTS	1.2	3.8	317	50-150	R	06/22/2022 14:15
13C8 PFOA	1.3	1.0	81	50-150		06/22/2022 14:15
13C9 PFNA	1.3	1.3	103	50-150		06/22/2022 14:15
13C8 PFOS	1.2	1.0	84	50-150		06/22/2022 14:15
13C2 8:2FTS	1.2	3.9	319	50-150	R	06/22/2022 14:15
13C6 PFDA	1.3	1.3	101	50-150		06/22/2022 14:15
d3-MeFOSAA	1.3	1.8	146	50-150		06/22/2022 14:15
13C8 PFOSA	1.3	0.83	66	50-150		06/22/2022 14:15
d5-EtFOSAA	1.3	1.9	150	50-150		06/22/2022 14:15
13C7 PFUdA	1.3	1.1	90	50-150		06/22/2022 14:15
13C2 PFDoA	1.3	1.2	95	50-150		06/22/2022 14:15
13C2 PFTeDA	1.3	1.1	91	50-150		06/22/2022 14:15
13C3 HFPO-DA	1.3	0.92	73	50-150		06/22/2022 14:15
13C2 PFHxDA	1.3	0.78	62	50-150		06/22/2022 14:15
d3-N-MeFOSA	1.3	0.30	24	10-150		06/22/2022 14:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB129-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607008	Percent Moisture	22.395%
Lab File ID	Q220622A_020	Dry Weight Extracted	3.97g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 14:12	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	10		06/22/2022 14:15
13C4 PFOA	N/A	N/A	7.43	7.44	15		06/22/2022 14:15
13C2 PFDA	N/A	N/A	8.73	8.74	73		06/22/2022 14:15
13C4 PFOS	N/A	N/A	9.15	9.16	84		06/22/2022 14:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	19		06/22/2022 14:15
13C5 PFPeA	N/A	N/A	5.52	5.53	16		06/22/2022 14:15
13C3 PFBS	N/A	N/A	6.38	6.39	74		06/22/2022 14:15
13C2 4:2FTS	N/A	N/A	5.89	5.90	32	R	06/22/2022 14:15
13C5 PFHxA	N/A	N/A	6.16	6.17	85		06/22/2022 14:15
13C4 PFHpA	N/A	N/A	6.80	6.80	11		06/22/2022 14:15
13C3 PFHxS	N/A	N/A	7.80	7.81	11		06/22/2022 14:15
13C2 6:2FTS	N/A	N/A	7.11	7.10	54	R	06/22/2022 14:15
13C8 PFOA	N/A	N/A	7.43	7.43	12		06/22/2022 14:15
13C9 PFNA	N/A	N/A	8.08	8.08	12		06/22/2022 14:15
13C8 PFOS	N/A	N/A	9.15	9.17	72		06/22/2022 14:15
13C2 8:2FTS	N/A	N/A	8.36	8.38	81	R	06/22/2022 14:15
13C6 PFDA	N/A	N/A	8.73	8.75	10		06/22/2022 14:15
d3-MeFOSAA	N/A	N/A	8.64	8.65	94		06/22/2022 14:15
13C8 PFOSA	N/A	N/A	11.22	11.18	11		06/22/2022 14:15
d5-EtFOSAA	N/A	N/A	8.94	8.95	11		06/22/2022 14:15
13C7 PFUdA	N/A	N/A	9.38	9.40	11		06/22/2022 14:15
13C2 PFDoA	N/A	N/A	10.03	10.05	67		06/22/2022 14:15
13C2 PFTeDA	N/A	N/A	11.29	11.30	99		06/22/2022 14:15
13C3 HFPO-DA	N/A	N/A	6.42	6.43	90		06/22/2022 14:15
13C2 PFHxDA	N/A	N/A	12.39	12.39	13		06/22/2022 14:15
d3-N-MeFOSA	N/A	N/A	13.13	13.13	27		06/22/2022 14:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB129-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607008	Percent Moisture	22.395%
Lab File ID	Q220622A_020	Dry Weight Extracted	3.97g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 14:12	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.74	4.77	ND		06/22/2022 14:15
PFPeA	N/A	N/A	5.52	5.54	ND		06/22/2022 14:15
HFPO-DA	0.00	0.40	0.00	6.44	ND		06/22/2022 14:15
PFBS	0.73	0.29	6.38	6.40	ND		06/22/2022 14:15
PFHxA	0.23	0.08	6.17	6.17	ND		06/22/2022 14:15
4:2 FTS	0.00	0.99	0.00	5.91	ND		06/22/2022 14:15
PFPeS	0.43	0.40	7.10	7.12	ND		06/22/2022 14:15
PFHpA	0.93	0.62	6.81	6.81	ND		06/22/2022 14:15
DONA	0.00	0.47	0.00	7.04	ND		06/22/2022 14:15
PFHxS	0.53	0.29	7.81	7.82	ND		06/22/2022 14:15
PFOA	0.31	0.32	7.44	7.44	ND		06/22/2022 14:15
6:2 FTS	1.60	1.40	7.12	7.12	ND		06/22/2022 14:15
PFHpS	0.00	0.38	0.00	8.51	ND		06/22/2022 14:15
PFNA	0.24	0.22	8.09	8.10	ND		06/22/2022 14:15
PFOSAm	N/A	N/A	11.24	11.19	ND		06/22/2022 14:15
PFOS	0.29	0.25	9.16	9.18	ND		06/22/2022 14:15
MeFOSA	0.00	0.42	0.00	13.09	ND		06/22/2022 14:15
PFDA	0.00	0.20	0.00	8.75	ND		06/22/2022 14:15
8:2 FTS	0.00	1.70	0.00	8.38	ND		06/22/2022 14:15
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/22/2022 14:15
PFNS	0.00	0.23	0.00	9.83	ND		06/22/2022 14:15
PFUnDA	0.00	0.22	0.00	9.40	ND		06/22/2022 14:15
NMeFOSAA	0.00	0.64	0.00	8.66	ND		06/22/2022 14:15
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/22/2022 14:15
PFDS	0.00	0.26	0.00	10.47	ND		06/22/2022 14:15
PFDOA	0.00	0.21	0.00	10.05	ND		06/22/2022 14:15
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/22/2022 14:15
PFTrDA	0.00	0.23	0.00	10.69	ND		06/22/2022 14:15
PFTDA	0.00	0.15	0.00	11.30	ND		06/22/2022 14:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB145-1
 Lab Sample ID 10609607009
 Lab File ID Q220622A_021
 Matrix Soil
 Collected 05/19/2022 12:55
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.08g
 Percent Moisture 22.8723%
 Dry Weight Extracted 3.92g
 Ical ID 220616A01
 CCal File Q220622A_016
 Ending CCal File Q220622A_027
 Blank File Q220622A_010

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/22/2022 14:33
PFPeA	ND	0.098	0.098	0.026	1	2706-90-3		06/22/2022 14:33
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/22/2022 14:33
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/22/2022 14:33
PFHxA	ND	0.098	0.098	0.030	1	307-24-4		06/22/2022 14:33
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/22/2022 14:33
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/22/2022 14:33
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/22/2022 14:33
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/22/2022 14:33
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/22/2022 14:33
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/22/2022 14:33
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/22/2022 14:33
PFHpS	ND	0.093	0.093	0.025	1	375-92-8		06/22/2022 14:33
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/22/2022 14:33
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/22/2022 14:33
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/22/2022 14:33
MeFOSA	ND	0.098	0.098	0.025	1	31506-32-8		06/22/2022 14:33
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/22/2022 14:33
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/22/2022 14:33
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/22/2022 14:33
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/22/2022 14:33
PFUnDA	ND	0.098	0.098	0.028	1	2058-94-8		06/22/2022 14:33
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/22/2022 14:33
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/22/2022 14:33
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/22/2022 14:33
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/22/2022 14:33
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/22/2022 14:33
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/22/2022 14:33
PFTDA	ND	0.098	0.098	0.032	1	376-06-7		06/22/2022 14:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB145-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607009	Percent Moisture	22.8723%
Lab File ID	Q220622A_021	Dry Weight Extracted	3.92g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:55	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.84	85	50-150		06/22/2022 14:33
13C4 PFOA	0.98	0.74	75	50-150		06/22/2022 14:33
13C2 PFDA	0.98	0.94	95	50-150		06/22/2022 14:33
13C4 PFOS	0.94	0.95	101	50-150		06/22/2022 14:33

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.81	83	50-150		06/22/2022 14:33
13C5 PFPeA	0.98	0.75	76	50-150		06/22/2022 14:33
13C3 PFBS	0.91	0.81	89	50-150		06/22/2022 14:33
13C2 4:2FTS	0.92	2.0	215	50-150	R	06/22/2022 14:33
13C5 PFHxA	0.98	0.65	66	50-150		06/22/2022 14:33
13C4 PFHpA	0.98	0.57	58	50-150		06/22/2022 14:33
13C3 PFHxS	0.93	0.76	82	50-150		06/22/2022 14:33
13C2 6:2FTS	0.93	3.3	354	50-150	R	06/22/2022 14:33
13C8 PFOA	0.98	0.66	67	50-150		06/22/2022 14:33
13C9 PFNA	0.98	0.82	83	50-150		06/22/2022 14:33
13C8 PFOS	0.94	0.72	77	50-150		06/22/2022 14:33
13C2 8:2FTS	0.94	3.0	317	50-150	R	06/22/2022 14:33
13C6 PFDA	0.98	0.91	92	50-150		06/22/2022 14:33
d3-MeFOSAA	0.98	1.3	134	50-150		06/22/2022 14:33
13C8 PFOSA	0.98	0.50	51	50-150		06/22/2022 14:33
d5-EtFOSAA	0.98	1.2	118	50-150		06/22/2022 14:33
13C7 PFUdA	0.98	0.80	81	50-150		06/22/2022 14:33
13C2 PFDoA	0.98	0.83	84	50-150		06/22/2022 14:33
13C2 PFTeDA	0.98	0.89	90	50-150		06/22/2022 14:33
13C3 HFPO-DA	0.98	0.54	55	50-150		06/22/2022 14:33
13C2 PFHxDA	0.98	0.59	60	50-150		06/22/2022 14:33
d3-N-MeFOSA	0.98	0.17	17	10-150		06/22/2022 14:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB145-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607009	Percent Moisture	22.8723%
Lab File ID	Q220622A_021	Dry Weight Extracted	3.92g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:55	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	79		06/22/2022 14:33
13C4 PFOA	N/A	N/A	7.44	7.44	13		06/22/2022 14:33
13C2 PFDA	N/A	N/A	8.73	8.74	73		06/22/2022 14:33
13C4 PFOS	N/A	N/A	9.15	9.16	45		06/22/2022 14:33

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	15		06/22/2022 14:33
13C5 PFPeA	N/A	N/A	5.52	5.53	13		06/22/2022 14:33
13C3 PFBS	N/A	N/A	6.38	6.39	57		06/22/2022 14:33
13C2 4:2FTS	N/A	N/A	5.89	5.90	34	R	06/22/2022 14:33
13C5 PFHxA	N/A	N/A	6.16	6.17	75		06/22/2022 14:33
13C4 PFHpA	N/A	N/A	6.80	6.80	10		06/22/2022 14:33
13C3 PFHxS	N/A	N/A	7.81	7.81	87		06/22/2022 14:33
13C2 6:2FTS	N/A	N/A	7.11	7.10	36	R	06/22/2022 14:33
13C8 PFOA	N/A	N/A	7.44	7.43	12		06/22/2022 14:33
13C9 PFNA	N/A	N/A	8.08	8.08	12		06/22/2022 14:33
13C8 PFOS	N/A	N/A	9.15	9.17	44		06/22/2022 14:33
13C2 8:2FTS	N/A	N/A	8.37	8.38	43	R	06/22/2022 14:33
13C6 PFDA	N/A	N/A	8.73	8.75	86		06/22/2022 14:33
d3-MeFOSAA	N/A	N/A	8.64	8.65	68		06/22/2022 14:33
13C8 PFOSA	N/A	N/A	11.22	11.18	10		06/22/2022 14:33
d5-EtFOSAA	N/A	N/A	8.94	8.95	12		06/22/2022 14:33
13C7 PFUdA	N/A	N/A	9.39	9.40	99		06/22/2022 14:33
13C2 PFDoA	N/A	N/A	10.03	10.05	56		06/22/2022 14:33
13C2 PFTeDA	N/A	N/A	11.29	11.30	95		06/22/2022 14:33
13C3 HFPO-DA	N/A	N/A	6.42	6.43	59		06/22/2022 14:33
13C2 PFHxDA	N/A	N/A	12.38	12.39	10		06/22/2022 14:33
d3-N-MeFOSA	N/A	N/A	13.12	13.07	19		06/22/2022 14:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB145-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607009	Percent Moisture	22.8723%
Lab File ID	Q220622A_021	Dry Weight Extracted	3.92g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 12:55	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.74	4.77	ND		06/22/2022 14:33
PFPeA	N/A	N/A	5.52	5.54	ND		06/22/2022 14:33
HFPO-DA	0.00	0.40	0.00	6.44	ND		06/22/2022 14:33
PFBS	0.96	0.29	6.39	6.40	ND		06/22/2022 14:33
PFHxA	0.00	0.08	0.00	6.17	ND		06/22/2022 14:33
4:2 FTS	0.00	0.99	0.00	5.91	ND		06/22/2022 14:33
PFPeS	0.00	0.40	0.00	7.12	ND		06/22/2022 14:33
PFHpA	0.00	0.62	0.00	6.81	ND		06/22/2022 14:33
DONA	0.00	0.47	0.00	7.04	ND		06/22/2022 14:33
PFHxS	0.67	0.29	7.82	7.82	ND		06/22/2022 14:33
PFOA	0.00	0.32	0.00	7.44	ND		06/22/2022 14:33
6:2 FTS	1.10	1.40	7.11	7.12	ND		06/22/2022 14:33
PFHpS	0.00	0.38	0.00	8.51	ND		06/22/2022 14:33
PFNA	0.00	0.22	0.00	8.10	ND		06/22/2022 14:33
PFOSAm	N/A	N/A	11.23	11.19	ND		06/22/2022 14:33
PFOS	0.29	0.25	9.16	9.18	ND		06/22/2022 14:33
MeFOSA	0.00	0.42	0.00	13.09	ND		06/22/2022 14:33
PFDA	0.00	0.20	0.00	8.75	ND		06/22/2022 14:33
8:2 FTS	0.00	1.70	0.00	8.38	ND		06/22/2022 14:33
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/22/2022 14:33
PFNS	0.00	0.23	0.00	9.83	ND		06/22/2022 14:33
PFUnDA	0.00	0.22	0.00	9.40	ND		06/22/2022 14:33
NMeFOSAA	0.00	0.64	0.00	8.66	ND		06/22/2022 14:33
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/22/2022 14:33
PFDS	0.00	0.26	0.00	10.47	ND		06/22/2022 14:33
PFDOA	0.00	0.21	0.00	10.05	ND		06/22/2022 14:33
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/22/2022 14:33
PFTrDA	0.00	0.23	0.00	10.69	ND		06/22/2022 14:33
PFTDA	0.00	0.15	0.00	11.30	ND		06/22/2022 14:33

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB132-1
 Lab Sample ID 10609607010
 Lab File ID Q220622A_022
 Matrix Soil
 Collected 05/19/2022 14:04
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.11g
 Percent Moisture 45.6591%
 Dry Weight Extracted 2.78g
 Ical ID 220616A01
 CCal File Q220622A_016
 Ending CCal File Q220622A_027
 Blank File Q220622A_010

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/22/2022 14:52
PFPeA	ND	0.098	0.098	0.026	1	2706-90-3		06/22/2022 14:52
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/22/2022 14:52
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/22/2022 14:52
PFHxA	ND	0.098	0.098	0.029	1	307-24-4		06/22/2022 14:52
4:2 FTS	ND	0.091	0.091	0.031	1	757124-72-4		06/22/2022 14:52
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/22/2022 14:52
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/22/2022 14:52
DONA	ND	0.092	0.092	0.038	1	919005-14-4		06/22/2022 14:52
PFHxS	ND	0.089	0.089	0.022	1	355-46-4		06/22/2022 14:52
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/22/2022 14:52
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/22/2022 14:52
PFHpS	ND	0.093	0.093	0.024	1	375-92-8		06/22/2022 14:52
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/22/2022 14:52
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/22/2022 14:52
PFOS	ND	0.090	0.090	0.027	1	1763-23-1		06/22/2022 14:52
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/22/2022 14:52
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/22/2022 14:52
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/22/2022 14:52
9-CI-PF3ON	ND	0.091	0.091	0.014	1	756426-58-1		06/22/2022 14:52
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/22/2022 14:52
PFUnDA	ND	0.098	0.098	0.027	1	2058-94-8		06/22/2022 14:52
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/22/2022 14:52
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/22/2022 14:52
PFDS	ND	0.094	0.094	0.025	1	335-77-3		06/22/2022 14:52
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/22/2022 14:52
11-CI-PF3OUdS	ND	0.092	0.092	0.016	1	763051-92-9		06/22/2022 14:52
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/22/2022 14:52
PFTDA	ND	0.098	0.098	0.031	1	376-06-7		06/22/2022 14:52

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB132-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607010	Percent Moisture	45.6591%
Lab File ID	Q220622A_022	Dry Weight Extracted	2.78g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 14:04	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.82	83	50-150		06/22/2022 14:52
13C4 PFOA	0.98	0.78	80	50-150		06/22/2022 14:52
13C2 PFDA	0.98	0.91	93	50-150		06/22/2022 14:52
13C4 PFOS	0.94	1.1	114	50-150		06/22/2022 14:52

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.80	82	50-150		06/22/2022 14:52
13C5 PFPeA	0.98	0.80	82	50-150		06/22/2022 14:52
13C3 PFBS	0.91	0.84	93	50-150		06/22/2022 14:52
13C2 4:2FTS	0.91	1.7	188	50-150	R	06/22/2022 14:52
13C5 PFHxA	0.98	0.62	63	50-150		06/22/2022 14:52
13C4 PFHpA	0.98	0.61	62	50-150		06/22/2022 14:52
13C3 PFHxS	0.93	0.80	86	50-150		06/22/2022 14:52
13C2 6:2FTS	0.93	3.5	377	50-150	R	06/22/2022 14:52
13C8 PFOA	0.98	0.70	71	50-150		06/22/2022 14:52
13C9 PFNA	0.98	0.84	86	50-150		06/22/2022 14:52
13C8 PFOS	0.94	0.83	88	50-150		06/22/2022 14:52
13C2 8:2FTS	0.94	3.2	340	50-150	R	06/22/2022 14:52
13C6 PFDA	0.98	0.97	100	50-150		06/22/2022 14:52
d3-MeFOSAA	0.98	1.3	135	50-150		06/22/2022 14:52
13C8 PFOSA	0.98	0.60	61	50-150		06/22/2022 14:52
d5-EtFOSAA	0.98	1.3	137	50-150		06/22/2022 14:52
13C7 PFUdA	0.98	0.92	95	50-150		06/22/2022 14:52
13C2 PFDoA	0.98	0.91	93	50-150		06/22/2022 14:52
13C2 PFTeDA	0.98	0.95	97	50-150		06/22/2022 14:52
13C3 HFPO-DA	0.98	0.63	64	50-150		06/22/2022 14:52
13C2 PFHxDA	0.98	0.57	59	50-150		06/22/2022 14:52
d3-N-MeFOSA	0.98	0.057	6	10-150	R	06/22/2022 14:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB132-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607010	Percent Moisture	45.6591%
Lab File ID	Q220622A_022	Dry Weight Extracted	2.78g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 14:04	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	10		06/22/2022 14:52
13C4 PFOA	N/A	N/A	7.44	7.44	13		06/22/2022 14:52
13C2 PFDA	N/A	N/A	8.73	8.74	65		06/22/2022 14:52
13C4 PFOS	N/A	N/A	9.15	9.16	57		06/22/2022 14:52

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	18		06/22/2022 14:52
13C5 PFPeA	N/A	N/A	5.52	5.53	14		06/22/2022 14:52
13C3 PFBS	N/A	N/A	6.39	6.39	78		06/22/2022 14:52
13C2 4:2FTS	N/A	N/A	5.90	5.90	54	R	06/22/2022 14:52
13C5 PFHxA	N/A	N/A	6.16	6.17	87		06/22/2022 14:52
13C4 PFHpA	N/A	N/A	6.80	6.80	10		06/22/2022 14:52
13C3 PFHxS	N/A	N/A	7.81	7.81	10		06/22/2022 14:52
13C2 6:2FTS	N/A	N/A	7.11	7.10	47	R	06/22/2022 14:52
13C8 PFOA	N/A	N/A	7.44	7.43	12		06/22/2022 14:52
13C9 PFNA	N/A	N/A	8.08	8.08	11		06/22/2022 14:52
13C8 PFOS	N/A	N/A	9.15	9.17	60		06/22/2022 14:52
13C2 8:2FTS	N/A	N/A	8.37	8.38	49	R	06/22/2022 14:52
13C6 PFDA	N/A	N/A	8.73	8.75	12		06/22/2022 14:52
d3-MeFOSAA	N/A	N/A	8.64	8.65	74		06/22/2022 14:52
13C8 PFOSA	N/A	N/A	11.22	11.18	10		06/22/2022 14:52
d5-EtFOSAA	N/A	N/A	8.94	8.95	95		06/22/2022 14:52
13C7 PFUdA	N/A	N/A	9.38	9.40	11		06/22/2022 14:52
13C2 PFDoA	N/A	N/A	10.03	10.05	41		06/22/2022 14:52
13C2 PFTeDA	N/A	N/A	11.28	11.30	91		06/22/2022 14:52
13C3 HFPO-DA	N/A	N/A	6.43	6.43	86		06/22/2022 14:52
13C2 PFHxDA	N/A	N/A	12.38	12.39	12		06/22/2022 14:52
d3-N-MeFOSA	N/A	N/A	13.12	13.07	13	R	06/22/2022 14:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB132-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607010	Percent Moisture	45.6591%
Lab File ID	Q220622A_022	Dry Weight Extracted	2.78g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 14:04	CCal File	Q220622A_016
Received	05/21/2022 10:00	Ending CCal File	Q220622A_027
Extraction Date	06/14/2022 13:19	Blank File	Q220622A_010

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.77	ND		06/22/2022 14:52
PFPeA	N/A	N/A	5.53	5.54	ND		06/22/2022 14:52
HFPO-DA	0.00	0.40	0.00	6.44	ND		06/22/2022 14:52
PFBS	1.70	0.29	6.41	6.40	ND		06/22/2022 14:52
PFHxA	0.17	0.08	6.17	6.17	ND		06/22/2022 14:52
4:2 FTS	0.00	0.99	0.00	5.91	ND		06/22/2022 14:52
PFPeS	0.00	0.40	0.00	7.12	ND		06/22/2022 14:52
PFHpA	0.00	0.62	0.00	6.81	ND		06/22/2022 14:52
DONA	0.00	0.47	0.00	7.04	ND		06/22/2022 14:52
PFHxS	1.30	0.29	7.82	7.82	ND		06/22/2022 14:52
PFOA	0.00	0.32	0.00	7.44	ND		06/22/2022 14:52
6:2 FTS	1.60	1.40	7.12	7.12	ND		06/22/2022 14:52
PFHpS	0.00	0.38	0.00	8.51	ND		06/22/2022 14:52
PFNA	0.00	0.22	0.00	8.10	ND		06/22/2022 14:52
PFOSAm	N/A	N/A	11.24	11.19	ND		06/22/2022 14:52
PFOS	0.20	0.25	9.15	9.18	ND		06/22/2022 14:52
MeFOSA	0.00	0.42	0.00	13.09	ND		06/22/2022 14:52
PFDA	0.00	0.20	0.00	8.75	ND		06/22/2022 14:52
8:2 FTS	0.00	1.70	0.00	8.38	ND		06/22/2022 14:52
9-Cl-PF3ON	0.00	0.04	0.00	9.66	ND		06/22/2022 14:52
PFNS	0.00	0.23	0.00	9.83	ND		06/22/2022 14:52
PFUnDA	0.00	0.22	0.00	9.40	ND		06/22/2022 14:52
NMeFOSAA	0.00	0.64	0.00	8.66	ND		06/22/2022 14:52
NEtFOSAA	0.00	0.44	0.00	8.96	ND		06/22/2022 14:52
PFDS	0.00	0.26	0.00	10.47	ND		06/22/2022 14:52
PFDOA	0.00	0.21	0.00	10.05	ND		06/22/2022 14:52
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/22/2022 14:52
PFTrDA	0.00	0.23	0.00	10.69	ND		06/22/2022 14:52
PFTDA	0.00	0.15	0.00	11.30	ND		06/22/2022 14:52

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB133-1
 Lab Sample ID 10609607011-R
 Lab File ID Q220707A_017
 Matrix Soil
 Collected 05/19/2022 13:41
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.03g
 Percent Moisture 30.272%
 Dry Weight Extracted 3.51g
 Ical ID 220629B01
 CCal File Q220707A_011
 Ending CCal File Q220707A_018
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.14	0.14	0.034	1	375-22-4		07/07/2022 14:21
PFPeA	0.20	0.14	0.14	0.038	1	2706-90-3		07/07/2022 14:21
HFPO-DA	ND	0.14	0.14	0.042	1	13252-13-6		07/07/2022 14:21
PFBS	ND	0.13	0.13	0.031	1	375-73-5		07/07/2022 14:21
PFHxA	ND	0.14	0.14	0.043	1	307-24-4		07/07/2022 14:21
4:2 FTS	ND	0.13	0.13	0.045	1	757124-72-4		07/07/2022 14:21
PFPeS	ND	0.13	0.13	0.027	1	2706-91-4		07/07/2022 14:21
PFHpA	ND	0.14	0.14	0.032	1	375-85-9		07/07/2022 14:21
DONA	ND	0.13	0.13	0.055	1	919005-14-4		07/07/2022 14:21
PFHxS	0.19	0.13	0.13	0.032	1	355-46-4		07/07/2022 14:21
PFOA	ND	0.14	0.14	0.032	1	335-67-1		07/07/2022 14:21
6:2 FTS	ND	0.14	0.14	0.046	1	27619-97-2		07/07/2022 14:21
PFHpS	ND	0.14	0.14	0.036	1	375-92-8		07/07/2022 14:21
PFNA	ND	0.14	0.14	0.041	1	375-95-1		07/07/2022 14:21
PFOSAm	ND	0.14	0.14	0.034	1	754-91-6		07/07/2022 14:21
PFOS	0.63	0.13	0.13	0.040	1	1763-23-1		07/07/2022 14:21
MeFOSA	ND	0.14	0.14	0.036	1	31506-32-8		07/07/2022 14:21
PFDA	ND	0.14	0.14	0.031	1	335-76-2		07/07/2022 14:21
8:2 FTS	ND	0.14	0.14	0.037	1	39108-34-4		07/07/2022 14:21
9-CI-PF3ON	ND	0.13	0.13	0.021	1	756426-58-1		07/07/2022 14:21
PFNS	ND	0.14	0.14	0.026	1	68259-12-1		07/07/2022 14:21
PFUnDA	ND	0.14	0.14	0.040	1	2058-94-8		07/07/2022 14:21
NMeFOSAA	ND	0.14	0.14	0.033	1	2355-31-9		07/07/2022 14:21
NEtFOSAA	ND	0.14	0.14	0.035	1	2991-50-6		07/07/2022 14:21
PFDS	ND	0.14	0.14	0.036	1	335-77-3		07/07/2022 14:21
PFDOA	ND	0.14	0.14	0.038	1	307-55-1		07/07/2022 14:21
11-CI-PF3OUdS	ND	0.13	0.13	0.023	1	763051-92-9		07/07/2022 14:21
PFTTrDA	ND	0.14	0.14	0.031	1	72629-94-8		07/07/2022 14:21
PFTDA	ND	0.14	0.14	0.046	1	376-06-7		07/07/2022 14:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB133-1	Total Amount Extracted	5.03g
Lab Sample ID	10609607011-R	Percent Moisture	30.272%
Lab File ID	Q220707A_017	Dry Weight Extracted	3.51g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:41	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.4	0.93	65	50-150		07/07/2022 14:21
13C4 PFOA	1.4	0.90	63	50-150		07/07/2022 14:21
13C2 PFDA	1.4	1.3	88	50-150		07/07/2022 14:21
13C4 PFOS	1.4	1.1	79	50-150		07/07/2022 14:21

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.4	0.97	68	50-150		07/07/2022 14:21
13C5 PFPeA	1.4	0.88	62	50-150		07/07/2022 14:21
13C3 PFBS	1.3	0.88	67	50-150		07/07/2022 14:21
13C2 4:2FTS	1.3	3.7	280	50-150	R	07/07/2022 14:21
13C5 PFHxA	1.4	0.81	57	50-150		07/07/2022 14:21
13C4 PFHpA	1.4	0.83	58	50-150		07/07/2022 14:21
13C3 PFHxS	1.3	0.85	63	50-150		07/07/2022 14:21
13C2 6:2FTS	1.4	4.2	308	50-150	R	07/07/2022 14:21
13C8 PFOA	1.4	0.91	64	50-150		07/07/2022 14:21
13C9 PFNA	1.4	1.0	72	50-150		07/07/2022 14:21
13C8 PFOS	1.4	0.89	65	50-150		07/07/2022 14:21
13C2 8:2FTS	1.4	4.3	314	50-150	R	07/07/2022 14:21
13C6 PFDA	1.4	1.3	92	50-150		07/07/2022 14:21
d3-MeFOSAA	1.4	1.9	132	50-150		07/07/2022 14:21
13C8 PFOSA	1.4	0.95	67	50-150		07/07/2022 14:21
d5-EtFOSAA	1.4	2.0	142	50-150		07/07/2022 14:21
13C7 PFUdA	1.4	1.4	99	50-150		07/07/2022 14:21
13C2 PFDoA	1.4	1.3	91	50-150		07/07/2022 14:21
13C2 PFTeDA	1.4	1.4	98	50-150		07/07/2022 14:21
13C3 HFPO-DA	1.4	0.71	50	50-150		07/07/2022 14:21
13C2 PFHxDA	1.4	0.63	44	50-150	R	07/07/2022 14:21
d3-N-MeFOSA	1.4	0.31	22	10-150		07/07/2022 14:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB133-1	Total Amount Extracted	5.03g
Lab Sample ID	10609607011-R	Percent Moisture	30.272%
Lab File ID	Q220707A_017	Dry Weight Extracted	3.51g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:41	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.23	6.19	13		07/07/2022 14:21
13C4 PFOA	N/A	N/A	7.54	7.50	18		07/07/2022 14:21
13C2 PFDA	N/A	N/A	8.85	8.81	89		07/07/2022 14:21
13C4 PFOS	N/A	N/A	9.27	9.23	53		07/07/2022 14:21

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.75	18		07/07/2022 14:21
13C5 PFPeA	N/A	N/A	5.54	5.53	13		07/07/2022 14:21
13C3 PFBS	N/A	N/A	6.45	6.39	97		07/07/2022 14:21
13C2 4:2FTS	N/A	N/A	5.95	5.95	41	R	07/07/2022 14:21
13C5 PFHxA	N/A	N/A	6.23	6.23	75		07/07/2022 14:21
13C4 PFHpA	N/A	N/A	6.90	6.87	17		07/07/2022 14:21
13C3 PFHxS	N/A	N/A	7.91	7.90	10		07/07/2022 14:21
13C2 6:2FTS	N/A	N/A	7.22	7.19	42	R	07/07/2022 14:21
13C8 PFOA	N/A	N/A	7.54	7.50	11		07/07/2022 14:21
13C9 PFNA	N/A	N/A	8.19	8.15	10		07/07/2022 14:21
13C8 PFOS	N/A	N/A	9.27	9.24	58		07/07/2022 14:21
13C2 8:2FTS	N/A	N/A	8.48	8.44	41	R	07/07/2022 14:21
13C6 PFDA	N/A	N/A	8.85	8.81	20		07/07/2022 14:21
d3-MeFOSAA	N/A	N/A	8.76	8.72	74		07/07/2022 14:21
13C8 PFOSA	N/A	N/A	11.35	11.32	10		07/07/2022 14:21
d5-EtFOSAA	N/A	N/A	9.07	9.03	22		07/07/2022 14:21
13C7 PFUdA	N/A	N/A	9.51	9.46	14		07/07/2022 14:21
13C2 PFDoA	N/A	N/A	10.17	10.12	49		07/07/2022 14:21
13C2 PFTeDA	N/A	N/A	11.43	11.40	98		07/07/2022 14:21
13C3 HFPO-DA	N/A	N/A	6.51	6.48	69		07/07/2022 14:21
13C2 PFHxDA	N/A	N/A	12.52	12.50	20	R	07/07/2022 14:21
d3-N-MeFOSA	N/A	N/A	13.23	13.21	44		07/07/2022 14:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB133-1	Total Amount Extracted	5.03g
Lab Sample ID	10609607011-R	Percent Moisture	30.272%
Lab File ID	Q220707A_017	Dry Weight Extracted	3.51g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 13:41	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.71	4.77	ND		07/07/2022 14:21
PFPeA	N/A	N/A	5.55	5.54	11		07/07/2022 14:21
HFPO-DA	0.00	0.36	0.00	6.44	ND		07/07/2022 14:21
PFBS	0.58	0.34	6.46	6.40	ND		07/07/2022 14:21
PFHxA	0.08	0.08	6.24	6.17	ND		07/07/2022 14:21
4:2 FTS	0.00	1.10	0.00	5.91	ND		07/07/2022 14:21
PFPeS	0.25	0.34	7.21	7.22	ND		07/07/2022 14:21
PFHpA	0.50	0.39	6.91	6.81	ND		07/07/2022 14:21
DONA	0.00	0.44	0.00	7.11	ND		07/07/2022 14:21
PFHxS	0.35	0.34	7.92	7.92	23		07/07/2022 14:21
PFOA	0.29	0.30	7.55	7.51	ND		07/07/2022 14:21
6:2 FTS	0.91	1.70	7.21	7.17	ND		07/07/2022 14:21
PFHpS	0.15	0.41	8.62	8.57	ND		07/07/2022 14:21
PFNA	0.22	0.25	8.20	8.16	ND		07/07/2022 14:21
PFOSAm	N/A	N/A	11.38	11.33	ND		07/07/2022 14:21
PFOS	0.23	0.21	9.28	9.24	26		07/07/2022 14:21
MeFOSA	0.00	0.48	0.00	13.23	ND		07/07/2022 14:21
PFDA	0.14	0.15	8.86	8.82	ND		07/07/2022 14:21
8:2 FTS	1.10	1.70	8.48	8.45	ND		07/07/2022 14:21
9-Cl-PF3ON	0.00	0.03	0.00	9.72	ND		07/07/2022 14:21
PFNS	0.00	0.23	0.00	9.90	ND		07/07/2022 14:21
PFUnDA	0.11	0.17	9.53	9.47	ND		07/07/2022 14:21
NMeFOSAA	0.00	0.67	0.00	8.73	ND		07/07/2022 14:21
NEtFOSAA	0.00	0.65	0.00	9.04	ND		07/07/2022 14:21
PFDS	0.00	0.28	0.00	10.55	ND		07/07/2022 14:21
PFDOA	0.00	0.20	0.00	10.13	ND		07/07/2022 14:21
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		07/07/2022 14:21
PFTrDA	0.00	0.18	0.00	10.77	ND		07/07/2022 14:21
PFTDA	0.00	0.16	0.00	11.40	ND		07/07/2022 14:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB121-1
 Lab Sample ID 10609607012-R
 Lab File ID Q220707A_020
 Matrix Soil
 Collected 05/19/2022 17:09
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.04g
 Percent Moisture 64.2978%
 Dry Weight Extracted 1.80g
 Ical ID 220629B01
 CCal File Q220707A_018
 Ending CCal File Q220707A_027
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	11	0.28	0.28	0.066	1	375-22-4		07/07/2022 15:17
PFPeA	49 E	0.28	0.28	0.073	1	2706-90-3		07/07/2022 15:17
HFPO-DA	ND	0.28	0.28	0.083	1	13252-13-6		07/07/2022 15:17
PFBS	5.8	0.25	0.25	0.061	1	375-73-5		07/07/2022 15:17
PFHxA	50 D	2.8	2.8	0.76	10	307-24-4		07/08/2022 20:47
4:2 FTS	ND	0.26	0.26	0.088	1	757124-72-4		07/07/2022 15:17
PFPeS	11	0.26	0.26	0.052	1	2706-91-4		07/07/2022 15:17
PFHpA	31 D	2.8	2.8	0.96	10	375-85-9		07/08/2022 20:47
DONA	ND	0.26	0.26	0.11	1	919005-14-4		07/07/2022 15:17
PFHxS	69 D	2.5	2.5	0.61	10	355-46-4		07/08/2022 20:47
PFOA	35 D	2.8	2.8	0.86	10	335-67-1		07/08/2022 20:47
6:2 FTS	180 E	0.26	0.26	0.089	1	27619-97-2		07/07/2022 15:17
PFHpS	3.7	0.26	0.26	0.069	1	375-92-8		07/07/2022 15:17
PFNA	6.5	0.28	0.28	0.080	1	375-95-1		07/07/2022 15:17
PFOSAm	ND	0.28	0.28	0.065	1	754-91-6		07/07/2022 15:17
PFOS	120 D	2.6	2.6	0.82	10	1763-23-1		07/08/2022 20:47
MeFOSA	ND	0.28	0.28	0.069	1	31506-32-8		07/07/2022 15:17
PFDA	2.3	0.28	0.28	0.060	1	335-76-2		07/07/2022 15:17
8:2 FTS	3.9	0.27	0.27	0.072	1	39108-34-4		07/07/2022 15:17
9-CI-PF3ON	ND	0.26	0.26	0.040	1	756426-58-1		07/07/2022 15:17
PFNS	ND	0.27	0.27	0.050	1	68259-12-1		07/07/2022 15:17
PFUnDA	0.30	0.28	0.28	0.078	1	2058-94-8		07/07/2022 15:17
NMeFOSAA	ND	0.28	0.28	0.065	1	2355-31-9		07/07/2022 15:17
NEtFOSAA	ND	0.28	0.28	0.069	1	2991-50-6		07/07/2022 15:17
PFDS	ND	0.27	0.27	0.070	1	335-77-3		07/07/2022 15:17
PFDOA	ND	0.28	0.28	0.074	1	307-55-1		07/07/2022 15:17
11-CI-PF3OUdS	ND	0.26	0.26	0.045	1	763051-92-9		07/07/2022 15:17
PFTTrDA	ND	0.28	0.28	0.059	1	72629-94-8		07/07/2022 15:17
PFTDA	ND	0.28	0.28	0.089	1	376-06-7		07/07/2022 15:17

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB121-1	Total Amount Extracted	5.04g
Lab Sample ID	10609607012-R	Percent Moisture	64.2978%
Lab File ID	Q220707A_020	Dry Weight Extracted	1.80g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:09	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	2.8	0.81	29	50-150	R	07/07/2022 15:17
13C4 PFOA	2.8	0.63	23	50-150	R	07/07/2022 15:17
13C2 PFDA	2.8	2.4	88	50-150	D	07/08/2022 20:47
13C4 PFOS	2.7	1.1	43	50-150	R	07/07/2022 15:17

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	2.8	0.94	34	50-150	R	07/07/2022 15:17
13C5 PFPeA	2.8	0.86	31	50-150	R	07/07/2022 15:17
13C3 PFBS	2.6	1.2	46	50-150	R	07/07/2022 15:17
13C2 4:2FTS	2.6	4.0	155	50-150	R	07/07/2022 15:17
13C5 PFHxA	2.8	2.2	80	50-150	D	07/08/2022 20:47
13C4 PFHpA	2.8	2.1	76	50-150	D	07/08/2022 20:47
13C3 PFHxS	2.6	1.8	70	50-150	D	07/08/2022 20:47
13C2 6:2FTS	2.6	5.0	190	50-150	R	07/07/2022 15:17
13C8 PFOA	2.8	2.0	73	50-150	D	07/08/2022 20:47
13C9 PFNA	2.8	0.76	27	50-150	R	07/07/2022 15:17
13C8 PFOS	2.7	1.9	70	50-150	D	07/08/2022 20:47
13C2 8:2FTS	2.7	5.0	189	50-150	R	07/07/2022 15:17
13C6 PFDA	2.8	0.97	35	50-150	R	07/07/2022 15:17
d3-MeFOSAA	2.8	1.8	64	50-150		07/07/2022 15:17
13C8 PFOSA	2.8	0.67	24	50-150	R	07/07/2022 15:17
d5-EtFOSAA	2.8	1.6	56	50-150		07/07/2022 15:17
13C7 PFUdA	2.8	0.96	35	50-150	R	07/07/2022 15:17
13C2 PFDoA	2.8	1.1	38	50-150	R	07/07/2022 15:17
13C2 PFTeDA	2.8	1.6	58	50-150		07/07/2022 15:17
13C3 HFPO-DA	2.8	0.69	25	50-150	R	07/07/2022 15:17
13C2 PFHxDA	2.8	0.98	35	50-150	R	07/07/2022 15:17
d3-N-MeFOSA	2.8	0.32	12	10-150		07/07/2022 15:17

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB121-1	Total Amount Extracted	5.04g
Lab Sample ID	10609607012-R	Percent Moisture	64.2978%
Lab File ID	Q220707A_020	Dry Weight Extracted	1.80g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:09	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.22	6.19	69	R	07/07/2022 15:17
13C4 PFOA	N/A	N/A	7.53	7.50	79	R	07/07/2022 15:17
13C2 PFDA	N/A	N/A	8.85	8.83	48	D	07/08/2022 20:47
13C4 PFOS	N/A	N/A	9.25	9.23	34	R	07/07/2022 15:17

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.69	4.75	14	R	07/07/2022 15:17
13C5 PFPeA	N/A	N/A	5.53	5.53	89	R	07/07/2022 15:17
13C3 PFBS	N/A	N/A	6.44	6.39	52	R	07/07/2022 15:17
13C2 4:2FTS	N/A	N/A	5.94	5.95	21	R	07/07/2022 15:17
13C5 PFHxA	N/A	N/A	6.24	6.25	46	D	07/08/2022 20:47
13C4 PFHpA	N/A	N/A	6.90	6.87	44	D	07/08/2022 20:47
13C3 PFHxS	N/A	N/A	7.92	7.92	41	D	07/08/2022 20:47
13C2 6:2FTS	N/A	N/A	7.20	7.19	22	R	07/07/2022 15:17
13C8 PFOA	N/A	N/A	7.55	7.52	83	D	07/08/2022 20:47
13C9 PFNA	N/A	N/A	8.18	8.15	37	R	07/07/2022 15:17
13C8 PFOS	N/A	N/A	9.27	9.26	20	D	07/08/2022 20:47
13C2 8:2FTS	N/A	N/A	8.47	8.44	24	R	07/07/2022 15:17
13C6 PFDA	N/A	N/A	8.83	8.81	43	R	07/07/2022 15:17
d3-MeFOSAA	N/A	N/A	8.75	8.72	29		07/07/2022 15:17
13C8 PFOSA	N/A	N/A	11.35	11.32	92	R	07/07/2022 15:17
d5-EtFOSAA	N/A	N/A	9.05	9.03	53		07/07/2022 15:17
13C7 PFUdA	N/A	N/A	9.49	9.46	50	R	07/07/2022 15:17
13C2 PFDoA	N/A	N/A	10.14	10.12	33	R	07/07/2022 15:17
13C2 PFTeDA	N/A	N/A	11.40	11.40	52		07/07/2022 15:17
13C3 HFPO-DA	N/A	N/A	6.49	6.48	63	R	07/07/2022 15:17
13C2 PFHxDA	N/A	N/A	12.49	12.50	67	R	07/07/2022 15:17
d3-N-MeFOSA	N/A	N/A	13.23	13.21	11		07/07/2022 15:17

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB121-1	Total Amount Extracted	5.04g
Lab Sample ID	10609607012-R	Percent Moisture	64.2978%
Lab File ID	Q220707A_020	Dry Weight Extracted	1.80g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:09	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.70	4.77	26		07/07/2022 15:17
PFPeA	N/A	N/A	5.54	5.54	60	E	07/07/2022 15:17
HFPO-DA	0.00	0.43	0.00	6.44	ND		07/07/2022 15:17
PFBS	0.37	0.34	6.44	6.40	60		07/07/2022 15:17
PFHxA	0.08	0.09	6.25	6.21	35	D	07/08/2022 20:47
4:2 FTS	1.40	0.98	5.95	5.91	ND		07/07/2022 15:17
PFPeS	0.37	0.40	7.20	7.22	50		07/07/2022 15:17
PFHpA	0.38	0.40	6.91	6.81	18	D	07/08/2022 20:47
DONA	0.00	0.43	0.00	7.11	ND		07/07/2022 15:17
PFHxS	0.33	0.33	7.93	7.89	11	D	07/08/2022 20:47
PFOA	0.30	0.32	7.56	7.51	39	D	07/08/2022 20:47
6:2 FTS	0.92	1.30	7.20	7.17	34	E	07/07/2022 15:17
PFHpS	0.43	0.36	8.59	8.57	11		07/07/2022 15:17
PFNA	0.19	0.27	8.19	8.16	31		07/07/2022 15:17
PFOSAm	N/A	N/A	11.36	11.33	ND		07/07/2022 15:17
PFOS	0.23	0.23	9.28	9.24	33	D	07/08/2022 20:47
MeFOSA	0.99	0.40	13.20	13.23	ND		07/07/2022 15:17
PFDA	0.14	0.18	8.84	8.82	12		07/07/2022 15:17
8:2 FTS	1.40	1.40	8.48	8.45	10		07/07/2022 15:17
9-Cl-PF3ON	0.00	0.04	0.00	9.72	ND		07/07/2022 15:17
PFNS	0.27	0.22	9.92	9.90	ND		07/07/2022 15:17
PFUnDA	0.09	0.16	9.50	9.47	81		07/07/2022 15:17
NMeFOSAA	0.00	0.89	0.00	8.73	ND		07/07/2022 15:17
NEtFOSAA	0.00	0.51	0.00	9.04	ND		07/07/2022 15:17
PFDS	0.28	0.27	10.56	10.55	ND		07/07/2022 15:17
PFDOA	0.39	0.18	10.15	10.13	ND		07/07/2022 15:17
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/07/2022 15:17
PFTrDA	0.00	0.20	0.00	10.77	ND		07/07/2022 15:17
PFTDA	0.00	0.13	0.00	11.40	ND		07/07/2022 15:17

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB123-1
 Lab Sample ID 10609607013-R
 Lab File ID Q220707A_013
 Matrix Soil
 Collected 05/19/2022 17:38
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.11g
 Percent Moisture 8.8926%
 Dry Weight Extracted 4.65g
 Ical ID 220629B01
 CCal File Q220707A_011
 Ending CCal File Q220707A_018
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.15	0.11	0.11	0.025	1	375-22-4		07/07/2022 13:07
PFPeA	0.72	0.11	0.11	0.028	1	2706-90-3		07/07/2022 13:07
HFPO-DA	ND	0.11	0.11	0.032	1	13252-13-6		07/07/2022 13:07
PFBS	ND	0.095	0.095	0.024	1	375-73-5		07/07/2022 13:07
PFHxA	0.45	0.11	0.11	0.032	1	307-24-4		07/07/2022 13:07
4:2 FTS	ND	0.10	0.10	0.034	1	757124-72-4		07/07/2022 13:07
PFPeS	ND	0.10	0.10	0.020	1	2706-91-4		07/07/2022 13:07
PFHpA	0.14	0.11	0.11	0.024	1	375-85-9		07/07/2022 13:07
DONA	ND	0.10	0.10	0.041	1	919005-14-4		07/07/2022 13:07
PFHxS	ND	0.098	0.098	0.024	1	355-46-4		07/07/2022 13:07
PFOA	0.18	0.11	0.11	0.024	1	335-67-1		07/07/2022 13:07
6:2 FTS	1.1	0.10	0.10	0.034	1	27619-97-2		07/07/2022 13:07
PFHpS	ND	0.10	0.10	0.027	1	375-92-8		07/07/2022 13:07
PFNA	0.11	0.11	0.11	0.031	1	375-95-1		07/07/2022 13:07
PFOSAm	ND	0.11	0.11	0.025	1	754-91-6		07/07/2022 13:07
PFOS	0.12	0.099	0.099	0.030	1	1763-23-1		07/07/2022 13:07
MeFOSA	ND	0.11	0.11	0.027	1	31506-32-8		07/07/2022 13:07
PFDA	ND	0.11	0.11	0.023	1	335-76-2		07/07/2022 13:07
8:2 FTS	ND	0.10	0.10	0.028	1	39108-34-4		07/07/2022 13:07
9-CI-PF3ON	ND	0.10	0.10	0.016	1	756426-58-1		07/07/2022 13:07
PFNS	ND	0.10	0.10	0.019	1	68259-12-1		07/07/2022 13:07
PFUnDA	ND	0.11	0.11	0.030	1	2058-94-8		07/07/2022 13:07
NMeFOSAA	ND	0.11	0.11	0.025	1	2355-31-9		07/07/2022 13:07
NEtFOSAA	ND	0.11	0.11	0.027	1	2991-50-6		07/07/2022 13:07
PFDS	ND	0.10	0.10	0.027	1	335-77-3		07/07/2022 13:07
PFDOA	ND	0.11	0.11	0.029	1	307-55-1		07/07/2022 13:07
11-CI-PF3OUdS	ND	0.10	0.10	0.017	1	763051-92-9		07/07/2022 13:07
PFTTrDA	ND	0.11	0.11	0.023	1	72629-94-8		07/07/2022 13:07
PFTDA	ND	0.11	0.11	0.034	1	376-06-7		07/07/2022 13:07

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB123-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607013-R	Percent Moisture	8.8926%
Lab File ID	Q220707A_013	Dry Weight Extracted	4.65g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:38	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.85	79	50-150		07/07/2022 13:07
13C4 PFOA	1.1	0.85	79	50-150		07/07/2022 13:07
13C2 PFDA	1.1	0.79	74	50-150		07/07/2022 13:07
13C4 PFOS	1.0	0.87	85	50-150		07/07/2022 13:07

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.85	79	50-150		07/07/2022 13:07
13C5 PFPeA	1.1	0.89	83	50-150		07/07/2022 13:07
13C3 PFBS	1.00	0.73	73	50-150		07/07/2022 13:07
13C2 4:2FTS	1.0	0.80	80	50-150		07/07/2022 13:07
13C5 PFHxA	1.1	0.83	77	50-150		07/07/2022 13:07
13C4 PFHpA	1.1	0.78	73	50-150		07/07/2022 13:07
13C3 PFHxS	1.0	0.79	78	50-150		07/07/2022 13:07
13C2 6:2FTS	1.0	0.75	73	50-150		07/07/2022 13:07
13C8 PFOA	1.1	0.88	82	50-150		07/07/2022 13:07
13C9 PFNA	1.1	0.86	80	50-150		07/07/2022 13:07
13C8 PFOS	1.0	0.78	76	50-150		07/07/2022 13:07
13C2 8:2FTS	1.0	0.76	74	50-150		07/07/2022 13:07
13C6 PFDA	1.1	0.87	81	50-150		07/07/2022 13:07
d3-MeFOSAA	1.1	0.84	79	50-150		07/07/2022 13:07
13C8 PFOSA	1.1	0.21	19	50-150	R	07/07/2022 13:07
d5-EtFOSAA	1.1	0.84	79	50-150		07/07/2022 13:07
13C7 PFUdA	1.1	0.86	80	50-150		07/07/2022 13:07
13C2 PFDoA	1.1	0.73	68	50-150		07/07/2022 13:07
13C2 PFTeDA	1.1	0.78	73	50-150		07/07/2022 13:07
13C3 HFPO-DA	1.1	0.83	77	50-150		07/07/2022 13:07
13C2 PFHxDA	1.1	0.75	69	50-150		07/07/2022 13:07
d3-N-MeFOSA	1.1	0.00045	0	10-150	R	07/07/2022 13:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB123-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607013-R	Percent Moisture	8.8926%
Lab File ID	Q220707A_013	Dry Weight Extracted	4.65g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:38	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.25	6.19	24		07/07/2022 13:07
13C4 PFOA	N/A	N/A	7.55	7.50	14		07/07/2022 13:07
13C2 PFDA	N/A	N/A	8.85	8.81	83		07/07/2022 13:07
13C4 PFOS	N/A	N/A	9.27	9.23	15		07/07/2022 13:07

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.75	26		07/07/2022 13:07
13C5 PFPeA	N/A	N/A	5.56	5.53	21		07/07/2022 13:07
13C3 PFBS	N/A	N/A	6.47	6.39	20		07/07/2022 13:07
13C2 4:2FTS	N/A	N/A	5.97	5.95	38		07/07/2022 13:07
13C5 PFHxA	N/A	N/A	6.25	6.23	22		07/07/2022 13:07
13C4 PFHpA	N/A	N/A	6.90	6.87	13		07/07/2022 13:07
13C3 PFHxS	N/A	N/A	7.91	7.90	17		07/07/2022 13:07
13C2 6:2FTS	N/A	N/A	7.22	7.19	10		07/07/2022 13:07
13C8 PFOA	N/A	N/A	7.54	7.50	24		07/07/2022 13:07
13C9 PFNA	N/A	N/A	8.19	8.15	14		07/07/2022 13:07
13C8 PFOS	N/A	N/A	9.27	9.24	35		07/07/2022 13:07
13C2 8:2FTS	N/A	N/A	8.48	8.44	55		07/07/2022 13:07
13C6 PFDA	N/A	N/A	8.85	8.81	13		07/07/2022 13:07
d3-MeFOSAA	N/A	N/A	8.76	8.72	18		07/07/2022 13:07
13C8 PFOSA	N/A	N/A	11.35	11.32	12	R	07/07/2022 13:07
d5-EtFOSAA	N/A	N/A	9.06	9.03	50		07/07/2022 13:07
13C7 PFUdA	N/A	N/A	9.51	9.46	18		07/07/2022 13:07
13C2 PFDoA	N/A	N/A	10.18	10.12	78		07/07/2022 13:07
13C2 PFTeDA	N/A	N/A	11.45	11.40	94		07/07/2022 13:07
13C3 HFPO-DA	N/A	N/A	6.52	6.48	10		07/07/2022 13:07
13C2 PFHxDA	N/A	N/A	12.53	12.50	16		07/07/2022 13:07
d3-N-MeFOSA	N/A	N/A	13.27	13.21	24	R	07/07/2022 13:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB123-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607013-R	Percent Moisture	8.8926%
Lab File ID	Q220707A_013	Dry Weight Extracted	4.65g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:38	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.73	4.77	12		07/07/2022 13:07
PFPeA	N/A	N/A	5.57	5.54	54		07/07/2022 13:07
HFPO-DA	0.00	0.36	0.00	6.44	ND		07/07/2022 13:07
PFBS	0.30	0.34	6.47	6.40	ND		07/07/2022 13:07
PFHxA	0.08	0.08	6.26	6.17	23		07/07/2022 13:07
4:2 FTS	0.00	1.10	0.00	5.91	ND		07/07/2022 13:07
PFPeS	0.44	0.34	7.23	7.22	ND		07/07/2022 13:07
PFHpA	0.42	0.39	6.91	6.81	19		07/07/2022 13:07
DONA	0.00	0.44	0.00	7.11	ND		07/07/2022 13:07
PFHxS	0.29	0.34	7.92	7.92	ND		07/07/2022 13:07
PFOA	0.32	0.30	7.55	7.51	11		07/07/2022 13:07
6:2 FTS	1.40	1.70	7.22	7.17	49		07/07/2022 13:07
PFHpS	0.70	0.41	8.60	8.57	ND		07/07/2022 13:07
PFNA	0.23	0.25	8.20	8.16	29		07/07/2022 13:07
PFOSAm	N/A	N/A	11.36	11.33	ND		07/07/2022 13:07
PFOS	0.18	0.21	9.25	9.24	10		07/07/2022 13:07
MeFOSA	0.00	0.48	0.00	13.23	ND		07/07/2022 13:07
PFDA	0.11	0.15	8.85	8.82	ND		07/07/2022 13:07
8:2 FTS	0.45	1.70	8.48	8.45	ND		07/07/2022 13:07
9-Cl-PF3ON	0.00	0.03	0.00	9.72	ND		07/07/2022 13:07
PFNS	0.00	0.23	0.00	9.90	ND		07/07/2022 13:07
PFUnDA	0.00	0.17	0.00	9.47	ND		07/07/2022 13:07
NMeFOSAA	0.00	0.67	0.00	8.73	ND		07/07/2022 13:07
NEtFOSAA	0.00	0.65	0.00	9.04	ND		07/07/2022 13:07
PFDS	0.00	0.28	0.00	10.55	ND		07/07/2022 13:07
PFDOA	0.00	0.20	0.00	10.13	ND		07/07/2022 13:07
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		07/07/2022 13:07
PFTrDA	0.00	0.18	0.00	10.77	ND		07/07/2022 13:07
PFTDA	0.00	0.16	0.00	11.40	ND		07/07/2022 13:07

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB127-1
 Lab Sample ID 10609607014-R
 Lab File ID Q220707A_025
 Matrix Soil
 Collected 05/19/2022 15:44
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.08g
 Percent Moisture 32.2084%
 Dry Weight Extracted 3.44g
 Ical ID 220629B01
 CCal File Q220707A_018
 Ending CCal File Q220707A_027
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.60	0.15	0.15	0.034	1	375-22-4		07/07/2022 16:50
PFPeA	2.9	0.15	0.15	0.038	1	2706-90-3		07/07/2022 16:50
HFPO-DA	ND	0.15	0.15	0.043	1	13252-13-6		07/07/2022 16:50
PFBS	0.88	0.13	0.13	0.032	1	375-73-5		07/07/2022 16:50
PFHxA	2.3	0.15	0.15	0.044	1	307-24-4		07/07/2022 16:50
4:2 FTS	ND	0.14	0.14	0.046	1	757124-72-4		07/07/2022 16:50
PFPeS	0.70	0.14	0.14	0.027	1	2706-91-4		07/07/2022 16:50
PFHpA	0.91	0.15	0.15	0.033	1	375-85-9		07/07/2022 16:50
DONA	ND	0.14	0.14	0.056	1	919005-14-4		07/07/2022 16:50
PFHxS	1.2	0.13	0.13	0.032	1	355-46-4		07/07/2022 16:50
PFOA	ND	0.15	0.15	0.033	1	335-67-1		07/07/2022 16:50
6:2 FTS	ND	0.14	0.14	0.046	1	27619-97-2		07/07/2022 16:50
PFHpS	ND	0.14	0.14	0.036	1	375-92-8		07/07/2022 16:50
PFNA	ND	0.15	0.15	0.042	1	375-95-1		07/07/2022 16:50
PFOSAm	ND	0.15	0.15	0.034	1	754-91-6		07/07/2022 16:50
PFOS	ND	0.13	0.13	0.040	1	1763-23-1		07/07/2022 16:50
MeFOSA	ND	0.15	0.15	0.036	1	31506-32-8		07/07/2022 16:50
PFDA	ND	0.15	0.15	0.032	1	335-76-2		07/07/2022 16:50
8:2 FTS	ND	0.14	0.14	0.038	1	39108-34-4		07/07/2022 16:50
9-CI-PF3ON	ND	0.14	0.14	0.021	1	756426-58-1		07/07/2022 16:50
PFNS	ND	0.14	0.14	0.026	1	68259-12-1		07/07/2022 16:50
PFUnDA	ND	0.15	0.15	0.041	1	2058-94-8		07/07/2022 16:50
NMeFOSAA	ND	0.15	0.15	0.034	1	2355-31-9		07/07/2022 16:50
NEtFOSAA	ND	0.15	0.15	0.036	1	2991-50-6		07/07/2022 16:50
PFDS	ND	0.14	0.14	0.037	1	335-77-3		07/07/2022 16:50
PFDOA	ND	0.15	0.15	0.039	1	307-55-1		07/07/2022 16:50
11-CI-PF3OUdS	ND	0.14	0.14	0.024	1	763051-92-9		07/07/2022 16:50
PFTTrDA	ND	0.15	0.15	0.031	1	72629-94-8		07/07/2022 16:50
PFTDA	ND	0.15	0.15	0.047	1	376-06-7		07/07/2022 16:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB127-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607014-R	Percent Moisture	32.2084%
Lab File ID	Q220707A_025	Dry Weight Extracted	3.44g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:44	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.5	0.67	46	50-150	R	07/07/2022 16:50
13C4 PFOA	1.5	0.59	41	50-150	R	07/07/2022 16:50
13C2 PFDA	1.5	0.96	66	50-150		07/07/2022 16:50
13C4 PFOS	1.4	0.91	65	50-150		07/07/2022 16:50

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.5	0.69	48	50-150	R	07/07/2022 16:50
13C5 PFPeA	1.5	0.70	48	50-150	R	07/07/2022 16:50
13C3 PFBS	1.3	0.87	65	50-150		07/07/2022 16:50
13C2 4:2FTS	1.4	3.3	241	50-150	R	07/07/2022 16:50
13C5 PFHxA	1.5	0.64	44	50-150	R	07/07/2022 16:50
13C4 PFHpA	1.5	0.60	41	50-150	R	07/07/2022 16:50
13C3 PFHxS	1.4	0.74	54	50-150		07/07/2022 16:50
13C2 6:2FTS	1.4	3.5	251	50-150	R	07/07/2022 16:50
13C8 PFOA	1.5	0.64	44	50-150	R	07/07/2022 16:50
13C9 PFNA	1.5	0.67	46	50-150	R	07/07/2022 16:50
13C8 PFOS	1.4	0.74	53	50-150		07/07/2022 16:50
13C2 8:2FTS	1.4	3.7	269	50-150	R	07/07/2022 16:50
13C6 PFDA	1.5	0.88	61	50-150		07/07/2022 16:50
d3-MeFOSAA	1.5	1.5	106	50-150		07/07/2022 16:50
13C8 PFOSA	1.5	0.61	42	50-150	R	07/07/2022 16:50
d5-EtFOSAA	1.5	1.4	97	50-150		07/07/2022 16:50
13C7 PFUdA	1.5	0.90	62	50-150		07/07/2022 16:50
13C2 PFDoA	1.5	0.92	63	50-150		07/07/2022 16:50
13C2 PFTeDA	1.5	1.1	75	50-150		07/07/2022 16:50
13C3 HFPO-DA	1.5	0.56	39	50-150	R	07/07/2022 16:50
13C2 PFHxDA	1.5	0.58	40	50-150	R	07/07/2022 16:50
d3-N-MeFOSA	1.5	0.17	12	10-150		07/07/2022 16:50

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB127-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607014-R	Percent Moisture	32.2084%
Lab File ID	Q220707A_025	Dry Weight Extracted	3.44g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:44	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.23	6.19	91	R	07/07/2022 16:50
13C4 PFOA	N/A	N/A	7.53	7.50	16	R	07/07/2022 16:50
13C2 PFDA	N/A	N/A	8.83	8.81	46		07/07/2022 16:50
13C4 PFOS	N/A	N/A	9.25	9.23	51		07/07/2022 16:50

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.75	18	R	07/07/2022 16:50
13C5 PFPeA	N/A	N/A	5.55	5.53	15	R	07/07/2022 16:50
13C3 PFBS	N/A	N/A	6.44	6.39	88		07/07/2022 16:50
13C2 4:2FTS	N/A	N/A	5.96	5.95	23	R	07/07/2022 16:50
13C5 PFHxA	N/A	N/A	6.23	6.23	88	R	07/07/2022 16:50
13C4 PFHpA	N/A	N/A	6.89	6.87	10	R	07/07/2022 16:50
13C3 PFHxS	N/A	N/A	7.89	7.90	95		07/07/2022 16:50
13C2 6:2FTS	N/A	N/A	7.21	7.19	31	R	07/07/2022 16:50
13C8 PFOA	N/A	N/A	7.53	7.50	13	R	07/07/2022 16:50
13C9 PFNA	N/A	N/A	8.18	8.15	74	R	07/07/2022 16:50
13C8 PFOS	N/A	N/A	9.25	9.24	45		07/07/2022 16:50
13C2 8:2FTS	N/A	N/A	8.47	8.44	26	R	07/07/2022 16:50
13C6 PFDA	N/A	N/A	8.84	8.81	96		07/07/2022 16:50
d3-MeFOSAA	N/A	N/A	8.75	8.72	48		07/07/2022 16:50
13C8 PFOSA	N/A	N/A	11.34	11.32	10	R	07/07/2022 16:50
d5-EtFOSAA	N/A	N/A	9.05	9.03	32		07/07/2022 16:50
13C7 PFUdA	N/A	N/A	9.49	9.46	84		07/07/2022 16:50
13C2 PFDaA	N/A	N/A	10.14	10.12	43		07/07/2022 16:50
13C2 PFTeDA	N/A	N/A	11.40	11.40	57		07/07/2022 16:50
13C3 HFPO-DA	N/A	N/A	6.50	6.48	71	R	07/07/2022 16:50
13C2 PFHxDA	N/A	N/A	12.49	12.50	77	R	07/07/2022 16:50
d3-N-MeFOSA	N/A	N/A	13.22	13.21	15		07/07/2022 16:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB127-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607014-R	Percent Moisture	32.2084%
Lab File ID	Q220707A_025	Dry Weight Extracted	3.44g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:44	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.71	4.77	14		07/07/2022 16:50
PFPeA	N/A	N/A	5.56	5.54	34		07/07/2022 16:50
HFPO-DA	0.00	0.43	0.00	6.44	ND		07/07/2022 16:50
PFBS	0.36	0.34	6.45	6.40	49		07/07/2022 16:50
PFHxA	0.07	0.08	6.24	6.17	16		07/07/2022 16:50
4:2 FTS	0.00	0.98	0.00	5.91	ND		07/07/2022 16:50
PFPeS	0.37	0.40	7.20	7.22	21		07/07/2022 16:50
PFHpA	0.37	0.42	6.90	6.81	16		07/07/2022 16:50
DONA	0.00	0.43	0.00	7.11	ND		07/07/2022 16:50
PFHxS	0.31	0.33	7.90	7.92	26		07/07/2022 16:50
PFOA	0.33	0.33	7.54	7.51	ND		07/07/2022 16:50
6:2 FTS	0.77	1.30	7.22	7.17	ND		07/07/2022 16:50
PFHpS	0.00	0.36	0.00	8.57	ND		07/07/2022 16:50
PFNA	0.27	0.27	8.18	8.16	ND		07/07/2022 16:50
PFOSAm	N/A	N/A	10.90	11.33	ND		07/07/2022 16:50
PFOS	0.22	0.24	9.16	9.24	ND		07/07/2022 16:50
MeFOSA	0.00	0.40	0.00	13.23	ND		07/07/2022 16:50
PFDA	0.00	0.18	0.00	8.82	ND		07/07/2022 16:50
8:2 FTS	0.00	1.40	0.00	8.45	ND		07/07/2022 16:50
9-Cl-PF3ON	0.00	0.04	0.00	9.72	ND		07/07/2022 16:50
PFNS	0.00	0.22	0.00	9.90	ND		07/07/2022 16:50
PFUnDA	0.00	0.16	0.00	9.47	ND		07/07/2022 16:50
NMeFOSAA	0.00	0.89	0.00	8.73	ND		07/07/2022 16:50
NEtFOSAA	0.00	0.51	0.00	9.04	ND		07/07/2022 16:50
PFDS	0.00	0.27	0.00	10.55	ND		07/07/2022 16:50
PFDOA	0.00	0.18	10.01	10.13	ND		07/07/2022 16:50
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/07/2022 16:50
PFTrDA	0.00	0.20	0.00	10.77	ND		07/07/2022 16:50
PFTDA	0.00	0.13	0.00	11.40	ND		07/07/2022 16:50

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB128-1
 Lab Sample ID 10609607015-R
 Lab File ID Q220708A_016
 Matrix Soil
 Collected 05/19/2022 15:53
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.06g
 Percent Moisture 46.0447%
 Dry Weight Extracted 2.73g
 Ical ID 220629B01
 CCal File Q220708A_013
 Ending CCal File Q220708A_022
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.18	0.18	0.052	1	375-22-4		07/08/2022 13:03
PFPeA	0.41	0.18	0.18	0.052	1	2706-90-3		07/08/2022 13:03
HFPO-DA	ND	0.18	0.18	0.051	1	13252-13-6		07/08/2022 13:03
PFBS	ND	0.16	0.16	0.048	1	375-73-5		07/08/2022 13:03
PFHxA	0.46	0.18	0.18	0.050	1	307-24-4		07/08/2022 13:03
4:2 FTS	ND	0.17	0.17	0.042	1	757124-72-4		07/08/2022 13:03
PFPeS	ND	0.17	0.17	0.044	1	2706-91-4		07/08/2022 13:03
PFHpA	0.20	0.18	0.18	0.064	1	375-85-9		07/08/2022 13:03
DONA	ND	0.17	0.17	0.066	1	919005-14-4		07/08/2022 13:03
PFHxS	0.64	0.17	0.17	0.040	1	355-46-4		07/08/2022 13:03
PFOA	ND	0.18	0.18	0.057	1	335-67-1		07/08/2022 13:03
6:2 FTS	ND	0.17	0.17	0.076	1	27619-97-2		07/08/2022 13:03
PFHpS	ND	0.17	0.17	0.051	1	375-92-8		07/08/2022 13:03
PFNA	ND	0.18	0.18	0.057	1	375-95-1		07/08/2022 13:03
PFOSAm	ND	0.18	0.18	0.054	1	754-91-6		07/08/2022 13:03
PFOS	1.7	0.17	0.17	0.054	1	1763-23-1		07/08/2022 13:03
MeFOSA	ND	0.18	0.18	0.050	1	31506-32-8		07/08/2022 13:03
PFDA	ND	0.18	0.18	0.042	1	335-76-2		07/08/2022 13:03
8:2 FTS	ND	0.18	0.18	0.080	1	39108-34-4		07/08/2022 13:03
9-CI-PF3ON	ND	0.17	0.17	0.046	1	756426-58-1		07/08/2022 13:03
PFNS	ND	0.18	0.18	0.064	1	68259-12-1		07/08/2022 13:03
PFUnDA	ND	0.18	0.18	0.055	1	2058-94-8		07/08/2022 13:03
NMeFOSAA	ND	0.18	0.18	0.051	1	2355-31-9		07/08/2022 13:03
NEtFOSAA	ND	0.18	0.18	0.074	1	2991-50-6		07/08/2022 13:03
PFDS	ND	0.18	0.18	0.052	1	335-77-3		07/08/2022 13:03
PFDOA	ND	0.18	0.18	0.060	1	307-55-1		07/08/2022 13:03
11-CI-PF3OUdS	ND	0.17	0.17	0.046	1	763051-92-9		07/08/2022 13:03
PFTTrDA	ND	0.18	0.18	0.058	1	72629-94-8		07/08/2022 13:03
PFTDA	ND	0.18	0.18	0.063	1	376-06-7		07/08/2022 13:03

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB128-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607015-R	Percent Moisture	46.0447%
Lab File ID	Q220708A_016	Dry Weight Extracted	2.73g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:53	CCal File	Q220708A_013
Received	05/21/2022 10:00	Ending CCal File	Q220708A_022
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.8	0.96	52	50-150		07/08/2022 13:03
13C4 PFOA	1.8	0.96	53	50-150		07/08/2022 13:03
13C2 PFDA	1.8	1.4	77	50-150		07/08/2022 13:03
13C4 PFOS	1.8	1.2	70	50-150		07/08/2022 13:03

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.8	1.1	58	50-150		07/08/2022 13:03
13C5 PFPeA	1.8	0.92	50	50-150		07/08/2022 13:03
13C3 PFBS	1.7	1.1	66	50-150		07/08/2022 13:03
13C2 4:2FTS	1.7	3.7	219	50-150	R	07/08/2022 13:03
13C5 PFHxA	1.8	0.76	42	50-150	R	07/08/2022 13:03
13C4 PFHpA	1.8	0.80	44	50-150	R	07/08/2022 13:03
13C3 PFHxS	1.7	1.1	63	50-150		07/08/2022 13:03
13C2 6:2FTS	1.7	4.1	237	50-150	R	07/08/2022 13:03
13C8 PFOA	1.8	0.89	48	50-150	R	07/08/2022 13:03
13C9 PFNA	1.8	0.97	53	50-150		07/08/2022 13:03
13C8 PFOS	1.8	1.0	59	50-150		07/08/2022 13:03
13C2 8:2FTS	1.8	4.7	265	50-150	R	07/08/2022 13:03
13C6 PFDA	1.8	1.1	61	50-150		07/08/2022 13:03
d3-MeFOSAA	1.8	1.9	102	50-150		07/08/2022 13:03
13C8 PFOSA	1.8	0.81	44	50-150	R	07/08/2022 13:03
d5-EtFOSAA	1.8	2.4	133	50-150		07/08/2022 13:03
13C7 PFUdA	1.8	1.4	79	50-150		07/08/2022 13:03
13C2 PFDoA	1.8	1.2	68	50-150		07/08/2022 13:03
13C2 PFTeDA	1.8	1.2	64	50-150		07/08/2022 13:03
13C3 HFPO-DA	1.8	0.70	38	50-150	R	07/08/2022 13:03
13C2 PFHxDA	1.8	0.61	34	50-150	R	07/08/2022 13:03
d3-N-MeFOSA	1.8	0.33	18	10-150		07/08/2022 13:03

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB128-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607015-R	Percent Moisture	46.0447%
Lab File ID	Q220708A_016	Dry Weight Extracted	2.73g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:53	CCal File	Q220708A_013
Received	05/21/2022 10:00	Ending CCal File	Q220708A_022
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.21	6.25	80		07/08/2022 13:03
13C4 PFOA	N/A	N/A	7.51	7.59	12		07/08/2022 13:03
13C2 PFDA	N/A	N/A	8.81	8.83	85		07/08/2022 13:03
13C4 PFOS	N/A	N/A	9.23	9.26	48		07/08/2022 13:03

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.75	18		07/08/2022 13:03
13C5 PFPeA	N/A	N/A	5.54	5.53	10		07/08/2022 13:03
13C3 PFBS	N/A	N/A	6.43	6.42	66		07/08/2022 13:03
13C2 4:2FTS	N/A	N/A	5.94	5.93	29	R	07/08/2022 13:03
13C5 PFHxA	N/A	N/A	6.22	6.25	67	R	07/08/2022 13:03
13C4 PFHpA	N/A	N/A	6.87	6.87	11	R	07/08/2022 13:03
13C3 PFHxS	N/A	N/A	7.87	7.92	67		07/08/2022 13:03
13C2 6:2FTS	N/A	N/A	7.18	7.19	32	R	07/08/2022 13:03
13C8 PFOA	N/A	N/A	7.51	7.52	12	R	07/08/2022 13:03
13C9 PFNA	N/A	N/A	8.15	8.17	96		07/08/2022 13:03
13C8 PFOS	N/A	N/A	9.23	9.26	34		07/08/2022 13:03
13C2 8:2FTS	N/A	N/A	8.44	8.47	48	R	07/08/2022 13:03
13C6 PFDA	N/A	N/A	8.81	8.92	11		07/08/2022 13:03
d3-MeFOSAA	N/A	N/A	8.72	8.72	56		07/08/2022 13:03
13C8 PFOSA	N/A	N/A	11.33	11.32	95	R	07/08/2022 13:03
d5-EtFOSAA	N/A	N/A	9.03	9.03	93		07/08/2022 13:03
13C7 PFUdA	N/A	N/A	9.47	9.46	85		07/08/2022 13:03
13C2 PFDoA	N/A	N/A	10.12	10.12	61		07/08/2022 13:03
13C2 PFTeDA	N/A	N/A	11.39	11.40	95		07/08/2022 13:03
13C3 HFPO-DA	N/A	N/A	6.49	6.48	77	R	07/08/2022 13:03
13C2 PFHxDA	N/A	N/A	12.49	12.53	98	R	07/08/2022 13:03
d3-N-MeFOSA	N/A	N/A	13.23	13.21	19		07/08/2022 13:03

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB128-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607015-R	Percent Moisture	46.0447%
Lab File ID	Q220708A_016	Dry Weight Extracted	2.73g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:53	CCal File	Q220708A_013
Received	05/21/2022 10:00	Ending CCal File	Q220708A_022
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.71	4.77	ND		07/08/2022 13:03
PFPeA	N/A	N/A	5.55	5.54	79		07/08/2022 13:03
HFPO-DA	0.00	0.43	0.00	6.44	ND		07/08/2022 13:03
PFBS	0.28	0.35	6.44	6.43	ND		07/08/2022 13:03
PFHxA	0.08	0.09	6.22	6.21	76		07/08/2022 13:03
4:2 FTS	0.00	1.00	0.00	5.98	ND		07/08/2022 13:03
PFPeS	0.43	0.40	7.18	7.22	ND		07/08/2022 13:03
PFHpA	0.57	0.46	6.88	6.81	15		07/08/2022 13:03
DONA	0.00	0.44	0.00	7.18	ND		07/08/2022 13:03
PFHxS	0.34	0.35	7.88	7.89	31		07/08/2022 13:03
PFOA	0.35	0.32	7.52	7.51	ND		07/08/2022 13:03
6:2 FTS	1.70	1.20	7.19	7.17	ND		07/08/2022 13:03
PFHpS	0.20	0.37	8.57	8.57	ND		07/08/2022 13:03
PFNA	0.20	0.27	8.16	8.16	ND		07/08/2022 13:03
PFOSAm	N/A	N/A	11.36	11.33	ND		07/08/2022 13:03
PFOS	0.24	0.23	9.24	9.24	25		07/08/2022 13:03
MeFOSA	0.00	0.46	0.00	13.23	ND		07/08/2022 13:03
PFDA	0.08	0.17	8.82	8.82	ND		07/08/2022 13:03
8:2 FTS	2.00	1.60	8.45	8.45	ND		07/08/2022 13:03
9-Cl-PF3ON	0.00	0.04	0.00	9.72	ND		07/08/2022 13:03
PFNS	0.00	0.23	0.00	9.90	ND		07/08/2022 13:03
PFUnDA	0.09	0.18	9.47	9.47	ND		07/08/2022 13:03
NMeFOSAA	0.00	0.82	0.00	8.73	ND		07/08/2022 13:03
NEtFOSAA	0.00	0.49	0.00	9.04	ND		07/08/2022 13:03
PFDS	0.00	0.29	0.00	10.55	ND		07/08/2022 13:03
PFDOA	0.23	0.19	10.13	10.13	ND		07/08/2022 13:03
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/08/2022 13:03
PFTrDA	0.00	0.19	0.00	10.77	ND		07/08/2022 13:03
PFTDA	0.00	0.15	0.00	11.40	ND		07/08/2022 13:03

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB126-1
 Lab Sample ID 10609607016-R
 Lab File ID Q220707A_022
 Matrix Soil
 Collected 05/19/2022 15:21
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.02g
 Percent Moisture 64.382%
 Dry Weight Extracted 1.79g
 Ical ID 220629B01
 CCal File Q220707A_018
 Ending CCal File Q220707A_027
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	4.9	0.28	0.28	0.066	1	375-22-4		07/07/2022 15:54
PFPeA	36 D	2.8	2.8	0.80	10	2706-90-3		07/08/2022 21:06
HFPO-DA	ND	0.28	0.28	0.083	1	13252-13-6		07/07/2022 15:54
PFBS	3.5	0.25	0.25	0.061	1	375-73-5		07/07/2022 15:54
PFHxA	30 D	2.8	2.8	0.77	10	307-24-4		07/08/2022 21:06
4:2 FTS	ND	0.26	0.26	0.089	1	757124-72-4		07/07/2022 15:54
PFPeS	5.9	0.26	0.26	0.052	1	2706-91-4		07/07/2022 15:54
PFHpA	14	0.28	0.28	0.063	1	375-85-9		07/07/2022 15:54
DONA	ND	0.26	0.26	0.11	1	919005-14-4		07/07/2022 15:54
PFHxS	30 D	2.5	2.5	0.61	10	355-46-4		07/08/2022 21:06
PFOA	10	0.28	0.28	0.063	1	335-67-1		07/07/2022 15:54
6:2 FTS	17	0.27	0.27	0.089	1	27619-97-2		07/07/2022 15:54
PFHpS	1.5	0.27	0.27	0.070	1	375-92-8		07/07/2022 15:54
PFNA	3.0	0.28	0.28	0.080	1	375-95-1		07/07/2022 15:54
PFOSAm	ND	0.28	0.28	0.066	1	754-91-6		07/07/2022 15:54
PFOS	66 D	2.6	2.6	0.83	10	1763-23-1		07/08/2022 21:06
MeFOSA	ND	0.28	0.28	0.070	1	31506-32-8		07/07/2022 15:54
PFDA	1.0	0.28	0.28	0.061	1	335-76-2		07/07/2022 15:54
8:2 FTS	0.89	0.27	0.27	0.072	1	39108-34-4		07/07/2022 15:54
9-CI-PF3ON	ND	0.26	0.26	0.041	1	756426-58-1		07/07/2022 15:54
PFNS	ND	0.27	0.27	0.050	1	68259-12-1		07/07/2022 15:54
PFUnDA	0.62	0.28	0.28	0.079	1	2058-94-8		07/07/2022 15:54
NMeFOSAA	ND	0.28	0.28	0.065	1	2355-31-9		07/07/2022 15:54
NEtFOSAA	ND	0.28	0.28	0.069	1	2991-50-6		07/07/2022 15:54
PFDS	ND	0.27	0.27	0.070	1	335-77-3		07/07/2022 15:54
PFDOA	ND	0.28	0.28	0.074	1	307-55-1		07/07/2022 15:54
11-CI-PF3OUdS	ND	0.26	0.26	0.045	1	763051-92-9		07/07/2022 15:54
PFTTrDA	ND	0.28	0.28	0.060	1	72629-94-8		07/07/2022 15:54
PFTDA	ND	0.28	0.28	0.090	1	376-06-7		07/07/2022 15:54

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB126-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607016-R	Percent Moisture	64.382%
Lab File ID	Q220707A_022	Dry Weight Extracted	1.79g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:21	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	2.8	0.87	31	50-150	R	07/07/2022 15:54
13C4 PFOA	2.8	0.66	24	50-150	R	07/07/2022 15:54
13C2 PFDA	2.8	1.2	42	50-150	R	07/07/2022 15:54
13C4 PFOS	2.7	1.3	47	50-150	R	07/07/2022 15:54

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	2.8	0.74	26	50-150	R	07/07/2022 15:54
13C5 PFPeA	2.8	1.8	65	50-150	D	07/08/2022 21:06
13C3 PFBS	2.6	0.99	38	50-150	R	07/07/2022 15:54
13C2 4:2FTS	2.6	3.3	125	50-150		07/07/2022 15:54
13C5 PFHxA	2.8	1.7	63	50-150	D	07/08/2022 21:06
13C4 PFHpA	2.8	0.62	22	50-150	R	07/07/2022 15:54
13C3 PFHxS	2.6	1.6	59	50-150	D	07/08/2022 21:06
13C2 6:2FTS	2.7	3.4	130	50-150		07/07/2022 15:54
13C8 PFOA	2.8	0.61	22	50-150	R	07/07/2022 15:54
13C9 PFNA	2.8	0.64	23	50-150	R	07/07/2022 15:54
13C8 PFOS	2.7	1.6	61	50-150	D	07/08/2022 21:06
13C2 8:2FTS	2.7	4.2	156	50-150	R	07/07/2022 15:54
13C6 PFDA	2.8	0.81	29	50-150	R	07/07/2022 15:54
d3-MeFOSAA	2.8	1.6	56	50-150		07/07/2022 15:54
13C8 PFOSA	2.8	0.58	21	50-150	R	07/07/2022 15:54
d5-EtFOSAA	2.8	1.4	51	50-150		07/07/2022 15:54
13C7 PFUdA	2.8	0.87	31	50-150	R	07/07/2022 15:54
13C2 PFDoA	2.8	0.93	33	50-150	R	07/07/2022 15:54
13C2 PFTeDA	2.8	1.2	42	50-150	R	07/07/2022 15:54
13C3 HFPO-DA	2.8	0.56	20	50-150	R	07/07/2022 15:54
13C2 PFHxDA	2.8	0.66	24	50-150	R	07/07/2022 15:54
d3-N-MeFOSA	2.8	0.34	12	10-150		07/07/2022 15:54

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB126-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607016-R	Percent Moisture	64.382%
Lab File ID	Q220707A_022	Dry Weight Extracted	1.79g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:21	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.23	6.19	62	R	07/07/2022 15:54
13C4 PFOA	N/A	N/A	7.55	7.50	84	R	07/07/2022 15:54
13C2 PFDA	N/A	N/A	8.84	8.81	39	R	07/07/2022 15:54
13C4 PFOS	N/A	N/A	9.25	9.23	33	R	07/07/2022 15:54

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.71	4.75	14	R	07/07/2022 15:54
13C5 PFPeA	N/A	N/A	5.57	5.53	69	D	07/08/2022 21:06
13C3 PFBS	N/A	N/A	6.45	6.39	62	R	07/07/2022 15:54
13C2 4:2FTS	N/A	N/A	5.95	5.95	19		07/07/2022 15:54
13C5 PFHxA	N/A	N/A	6.25	6.25	51	D	07/08/2022 21:06
13C4 PFHpA	N/A	N/A	6.90	6.87	61	R	07/07/2022 15:54
13C3 PFHxS	N/A	N/A	7.93	7.92	36	D	07/08/2022 21:06
13C2 6:2FTS	N/A	N/A	7.22	7.19	27		07/07/2022 15:54
13C8 PFOA	N/A	N/A	7.55	7.50	10	R	07/07/2022 15:54
13C9 PFNA	N/A	N/A	8.19	8.15	48	R	07/07/2022 15:54
13C8 PFOS	N/A	N/A	9.28	9.26	21	D	07/08/2022 21:06
13C2 8:2FTS	N/A	N/A	8.48	8.44	23	R	07/07/2022 15:54
13C6 PFDA	N/A	N/A	8.84	8.81	35	R	07/07/2022 15:54
d3-MeFOSAA	N/A	N/A	8.76	8.72	27		07/07/2022 15:54
13C8 PFOSA	N/A	N/A	11.34	11.32	90	R	07/07/2022 15:54
d5-EtFOSAA	N/A	N/A	9.06	9.03	39		07/07/2022 15:54
13C7 PFUdA	N/A	N/A	9.49	9.46	41	R	07/07/2022 15:54
13C2 PFDoA	N/A	N/A	10.15	10.12	34	R	07/07/2022 15:54
13C2 PFTeDA	N/A	N/A	11.40	11.40	41	R	07/07/2022 15:54
13C3 HFPO-DA	N/A	N/A	6.50	6.48	52	R	07/07/2022 15:54
13C2 PFHxDA	N/A	N/A	12.48	12.50	59	R	07/07/2022 15:54
d3-N-MeFOSA	N/A	N/A	13.23	13.21	13		07/07/2022 15:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB126-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607016-R	Percent Moisture	64.382%
Lab File ID	Q220707A_022	Dry Weight Extracted	1.79g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 15:21	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.71	4.77	14		07/07/2022 15:54
PFPeA	N/A	N/A	5.58	5.54	46	D	07/08/2022 21:06
HFPO-DA	0.00	0.43	0.00	6.44	ND		07/07/2022 15:54
PFBS	0.37	0.34	6.45	6.40	44		07/07/2022 15:54
PFHxA	0.07	0.09	6.26	6.21	22	D	07/08/2022 21:06
4:2 FTS	0.00	0.98	0.00	5.91	ND		07/07/2022 15:54
PFPeS	0.40	0.40	7.21	7.22	25		07/07/2022 15:54
PFHpA	0.37	0.42	6.91	6.81	18		07/07/2022 15:54
DONA	0.00	0.43	0.00	7.11	ND		07/07/2022 15:54
PFHxS	0.28	0.33	7.94	7.89	54	D	07/08/2022 21:06
PFOA	0.31	0.33	7.55	7.51	15		07/07/2022 15:54
6:2 FTS	1.10	1.30	7.22	7.17	58		07/07/2022 15:54
PFHpS	0.37	0.36	8.60	8.57	80		07/07/2022 15:54
PFNA	0.21	0.27	8.20	8.16	13		07/07/2022 15:54
PFOSAm	N/A	N/A	11.36	11.33	ND		07/07/2022 15:54
PFOS	0.22	0.23	9.29	9.24	26	D	07/08/2022 21:06
MeFOSA	0.00	0.40	0.00	13.23	ND		07/07/2022 15:54
PFDA	0.15	0.18	8.85	8.82	81		07/07/2022 15:54
8:2 FTS	1.60	1.40	8.48	8.45	71		07/07/2022 15:54
9-Cl-PF3ON	0.00	0.04	0.00	9.72	ND		07/07/2022 15:54
PFNS	0.32	0.22	9.92	9.90	ND		07/07/2022 15:54
PFUnDA	0.14	0.16	9.50	9.47	10		07/07/2022 15:54
NMeFOSAA	0.00	0.89	0.00	8.73	ND		07/07/2022 15:54
NEtFOSAA	0.00	0.51	0.00	9.04	ND		07/07/2022 15:54
PFDS	0.54	0.27	10.57	10.55	ND		07/07/2022 15:54
PFDOA	0.00	0.18	0.00	10.13	ND		07/07/2022 15:54
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/07/2022 15:54
PFTDA	0.00	0.20	0.00	10.77	ND		07/07/2022 15:54
PFTDA	0.00	0.13	0.00	11.40	ND		07/07/2022 15:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

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Client Sample ID SB120-1
 Lab Sample ID 10609607017-R
 Lab File ID Q220707A_023
 Matrix Soil
 Collected 05/19/2022 16:55
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.15g
 Percent Moisture 56.0033%
 Dry Weight Extracted 2.27g
 Ical ID 220629B01
 CCal File Q220707A_018
 Ending CCal File Q220707A_027
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	10	0.22	0.22	0.052	1	375-22-4		07/07/2022 16:12
PFPeA	77 D	4.4	4.4	1.3	20	2706-90-3		07/08/2022 21:25
HFPO-DA	ND	0.22	0.22	0.065	1	13252-13-6		07/07/2022 16:12
PFBS	6.4	0.20	0.20	0.049	1	375-73-5		07/07/2022 16:12
PFHxA	69 D	4.4	4.4	1.2	20	307-24-4		07/08/2022 21:25
4:2 FTS	ND	0.21	0.21	0.070	1	757124-72-4		07/07/2022 16:12
PFPeS	10	0.21	0.21	0.041	1	2706-91-4		07/07/2022 16:12
PFHpA	40 D	4.4	4.4	1.5	20	375-85-9		07/08/2022 21:25
DONA	ND	0.21	0.21	0.085	1	919005-14-4		07/07/2022 16:12
PFHxS	56 D	4.0	4.0	0.97	20	355-46-4		07/08/2022 21:25
PFOA	21	0.22	0.22	0.050	1	335-67-1		07/07/2022 16:12
6:2 FTS	180 D	4.2	4.2	1.8	20	27619-97-2		07/08/2022 21:25
PFHpS	5.3	0.21	0.21	0.055	1	375-92-8		07/07/2022 16:12
PFNA	9.2	0.22	0.22	0.063	1	375-95-1		07/07/2022 16:12
PFOSAm	ND	0.22	0.22	0.052	1	754-91-6		07/07/2022 16:12
PFOS	180 D	4.1	4.1	1.3	20	1763-23-1		07/08/2022 21:25
MeFOSA	ND	0.22	0.22	0.055	1	31506-32-8		07/07/2022 16:12
PFDA	0.93	0.22	0.22	0.048	1	335-76-2		07/07/2022 16:12
8:2 FTS	1.2	0.21	0.21	0.057	1	39108-34-4		07/07/2022 16:12
9-CI-PF3ON	ND	0.21	0.21	0.032	1	756426-58-1		07/07/2022 16:12
PFNS	ND	0.21	0.21	0.039	1	68259-12-1		07/07/2022 16:12
PFUnDA	ND	0.22	0.22	0.062	1	2058-94-8		07/07/2022 16:12
NMeFOSAA	ND	0.22	0.22	0.051	1	2355-31-9		07/07/2022 16:12
NEtFOSAA	ND	0.22	0.22	0.054	1	2991-50-6		07/07/2022 16:12
PFDS	ND	0.21	0.21	0.056	1	335-77-3		07/07/2022 16:12
PFDOA	ND	0.22	0.22	0.059	1	307-55-1		07/07/2022 16:12
11-CI-PF3OUdS	ND	0.21	0.21	0.036	1	763051-92-9		07/07/2022 16:12
PFTTrDA	ND	0.22	0.22	0.047	1	72629-94-8		07/07/2022 16:12
PFTDA	ND	0.22	0.22	0.071	1	376-06-7		07/07/2022 16:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB120-1	Total Amount Extracted	5.15g
Lab Sample ID	10609607017-R	Percent Moisture	56.0033%
Lab File ID	Q220707A_023	Dry Weight Extracted	2.27g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 16:55	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	2.2	0.65	29	50-150	R	07/07/2022 16:12
13C4 PFOA	2.2	0.48	22	50-150	R	07/07/2022 16:12
13C2 PFDA	2.2	0.86	39	50-150	R	07/07/2022 16:12
13C4 PFOS	2.1	0.85	40	50-150	R	07/07/2022 16:12

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	2.2	0.66	30	50-150	R	07/07/2022 16:12
13C5 PFPeA	2.2	1.5	67	50-150	D	07/08/2022 21:25
13C3 PFBS	2.0	0.87	42	50-150	R	07/07/2022 16:12
13C2 4:2FTS	2.1	2.9	138	50-150		07/07/2022 16:12
13C5 PFHxA	2.2	1.5	66	50-150	D	07/08/2022 21:25
13C4 PFHpA	2.2	1.2	56	50-150	D	07/08/2022 21:25
13C3 PFHxS	2.1	1.3	61	50-150	D	07/08/2022 21:25
13C2 6:2FTS	2.1	5.9	281	50-150	RD	07/08/2022 21:25
13C8 PFOA	2.2	0.51	23	50-150	R	07/07/2022 16:12
13C9 PFNA	2.2	0.55	25	50-150	R	07/07/2022 16:12
13C8 PFOS	2.1	1.3	64	50-150	D	07/08/2022 21:25
13C2 8:2FTS	2.1	3.4	163	50-150	R	07/07/2022 16:12
13C6 PFDA	2.2	0.74	34	50-150	R	07/07/2022 16:12
d3-MeFOSAA	2.2	1.4	62	50-150		07/07/2022 16:12
13C8 PFOSA	2.2	0.41	19	50-150	R	07/07/2022 16:12
d5-EtFOSAA	2.2	1.1	51	50-150		07/07/2022 16:12
13C7 PFUdA	2.2	0.66	30	50-150	R	07/07/2022 16:12
13C2 PFDoA	2.2	0.73	33	50-150	R	07/07/2022 16:12
13C2 PFTeDA	2.2	0.92	42	50-150	R	07/07/2022 16:12
13C3 HFPO-DA	2.2	0.48	22	50-150	R	07/07/2022 16:12
13C2 PFHxDA	2.2	0.48	22	50-150	R	07/07/2022 16:12
d3-N-MeFOSA	2.2	0.24	11	10-150		07/07/2022 16:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB120-1	Total Amount Extracted	5.15g
Lab Sample ID	10609607017-R	Percent Moisture	56.0033%
Lab File ID	Q220707A_023	Dry Weight Extracted	2.27g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 16:55	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.21	6.19	57	R	07/07/2022 16:12
13C4 PFOA	N/A	N/A	7.53	7.50	71	R	07/07/2022 16:12
13C2 PFDA	N/A	N/A	8.83	8.81	30	R	07/07/2022 16:12
13C4 PFOS	N/A	N/A	9.24	9.23	23	R	07/07/2022 16:12

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.68	4.75	12	R	07/07/2022 16:12
13C5 PFPeA	N/A	N/A	5.57	5.53	54	D	07/08/2022 21:25
13C3 PFBS	N/A	N/A	6.43	6.39	50	R	07/07/2022 16:12
13C2 4:2FTS	N/A	N/A	5.93	5.95	21		07/07/2022 16:12
13C5 PFHxA	N/A	N/A	6.26	6.25	41	D	07/08/2022 21:25
13C4 PFHpA	N/A	N/A	6.92	6.87	36	D	07/08/2022 21:25
13C3 PFHxS	N/A	N/A	7.94	7.92	56	D	07/08/2022 21:25
13C2 6:2FTS	N/A	N/A	7.24	7.19	15	RD	07/08/2022 21:25
13C8 PFOA	N/A	N/A	7.53	7.50	83	R	07/07/2022 16:12
13C9 PFNA	N/A	N/A	8.18	8.15	43	R	07/07/2022 16:12
13C8 PFOS	N/A	N/A	9.29	9.26	20	D	07/08/2022 21:25
13C2 8:2FTS	N/A	N/A	8.47	8.44	23	R	07/07/2022 16:12
13C6 PFDA	N/A	N/A	8.83	8.81	42	R	07/07/2022 16:12
d3-MeFOSAA	N/A	N/A	8.74	8.72	47		07/07/2022 16:12
13C8 PFOSA	N/A	N/A	11.35	11.32	72	R	07/07/2022 16:12
d5-EtFOSAA	N/A	N/A	9.04	9.03	57		07/07/2022 16:12
13C7 PFUdA	N/A	N/A	9.48	9.46	37	R	07/07/2022 16:12
13C2 PFDoA	N/A	N/A	10.14	10.12	36	R	07/07/2022 16:12
13C2 PFTeDA	N/A	N/A	11.39	11.40	31	R	07/07/2022 16:12
13C3 HFPO-DA	N/A	N/A	6.49	6.48	56	R	07/07/2022 16:12
13C2 PFHxDA	N/A	N/A	12.47	12.50	53	R	07/07/2022 16:12
d3-N-MeFOSA	N/A	N/A	13.22	13.21	11		07/07/2022 16:12

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB120-1	Total Amount Extracted	5.15g
Lab Sample ID	10609607017-R	Percent Moisture	56.0033%
Lab File ID	Q220707A_023	Dry Weight Extracted	2.27g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 16:55	CCal File	Q220707A_018
Received	05/21/2022 10:00	Ending CCal File	Q220707A_027
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.68	4.77	24		07/07/2022 16:12
PFPeA	N/A	N/A	5.58	5.54	68	D	07/08/2022 21:25
HFPO-DA	0.00	0.43	0.00	6.44	ND		07/07/2022 16:12
PFBS	0.33	0.34	6.44	6.40	77		07/07/2022 16:12
PFHxA	0.08	0.09	6.26	6.21	38	D	07/08/2022 21:25
4:2 FTS	0.00	0.98	0.00	5.91	ND		07/07/2022 16:12
PFPeS	0.37	0.40	7.19	7.22	44		07/07/2022 16:12
PFHpA	0.38	0.40	6.93	6.81	21	D	07/08/2022 21:25
DONA	0.00	0.43	0.00	7.11	ND		07/07/2022 16:12
PFHxS	0.31	0.33	7.95	7.89	78	D	07/08/2022 21:25
PFOA	0.33	0.33	7.54	7.51	23		07/07/2022 16:12
6:2 FTS	1.20	1.30	7.24	7.17	42	D	07/08/2022 21:25
PFHpS	0.37	0.36	8.58	8.57	12		07/07/2022 16:12
PFNA	0.19	0.27	8.18	8.16	30		07/07/2022 16:12
PFOSAm	N/A	N/A	11.36	11.33	ND		07/07/2022 16:12
PFOS	0.19	0.23	9.30	9.24	27	D	07/08/2022 21:25
MeFOSA	0.00	0.40	0.00	13.23	ND		07/07/2022 16:12
PFDA	0.14	0.18	8.84	8.82	82		07/07/2022 16:12
8:2 FTS	1.50	1.40	8.47	8.45	57		07/07/2022 16:12
9-Cl-PF3ON	0.00	0.04	0.00	9.72	ND		07/07/2022 16:12
PFNS	0.32	0.22	9.93	9.90	ND		07/07/2022 16:12
PFUnDA	0.18	0.16	9.49	9.47	ND		07/07/2022 16:12
NMeFOSAA	0.00	0.89	0.00	8.73	ND		07/07/2022 16:12
NEtFOSAA	0.00	0.51	0.00	9.04	ND		07/07/2022 16:12
PFDS	0.00	0.27	0.00	10.55	ND		07/07/2022 16:12
PFDOA	0.00	0.18	0.00	10.13	ND		07/07/2022 16:12
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/07/2022 16:12
PFTrDA	0.00	0.20	0.00	10.77	ND		07/07/2022 16:12
PFTDA	0.00	0.13	0.00	11.40	ND		07/07/2022 16:12

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Page 1 of 4

Client Sample ID SB122-3
 Lab Sample ID 10609607018-R
 Lab File ID Q220707A_014
 Matrix Soil
 Collected 05/19/2022 17:30
 Received 05/21/2022 10:00
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.02g
 Percent Moisture 11.4735%
 Dry Weight Extracted 4.44g
 Ical ID 220629B01
 CCal File Q220707A_011
 Ending CCal File Q220707A_018
 Blank File Q220708A_005

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.11	0.11	0.027	1	375-22-4		07/07/2022 13:25
PFPeA	0.13	0.11	0.11	0.030	1	2706-90-3		07/07/2022 13:25
HFPO-DA	ND	0.11	0.11	0.033	1	13252-13-6		07/07/2022 13:25
PFBS	ND	0.100	0.100	0.025	1	375-73-5		07/07/2022 13:25
PFHxA	ND	0.11	0.11	0.034	1	307-24-4		07/07/2022 13:25
4:2 FTS	ND	0.11	0.11	0.036	1	757124-72-4		07/07/2022 13:25
PFPeS	ND	0.11	0.11	0.021	1	2706-91-4		07/07/2022 13:25
PFHpA	ND	0.11	0.11	0.025	1	375-85-9		07/07/2022 13:25
DONA	ND	0.11	0.11	0.043	1	919005-14-4		07/07/2022 13:25
PFHxS	0.11	0.10	0.10	0.025	1	355-46-4		07/07/2022 13:25
PFOA	ND	0.11	0.11	0.025	1	335-67-1		07/07/2022 13:25
6:2 FTS	ND	0.11	0.11	0.036	1	27619-97-2		07/07/2022 13:25
PFHpS	ND	0.11	0.11	0.028	1	375-92-8		07/07/2022 13:25
PFNA	ND	0.11	0.11	0.032	1	375-95-1		07/07/2022 13:25
PFOSAm	ND	0.11	0.11	0.026	1	754-91-6		07/07/2022 13:25
PFOS	0.53	0.10	0.10	0.031	1	1763-23-1		07/07/2022 13:25
MeFOSA	ND	0.11	0.11	0.028	1	31506-32-8		07/07/2022 13:25
PFDA	ND	0.11	0.11	0.024	1	335-76-2		07/07/2022 13:25
8:2 FTS	ND	0.11	0.11	0.029	1	39108-34-4		07/07/2022 13:25
9-CI-PF3ON	ND	0.10	0.10	0.016	1	756426-58-1		07/07/2022 13:25
PFNS	ND	0.11	0.11	0.020	1	68259-12-1		07/07/2022 13:25
PFUnDA	ND	0.11	0.11	0.032	1	2058-94-8		07/07/2022 13:25
NMeFOSAA	ND	0.11	0.11	0.026	1	2355-31-9		07/07/2022 13:25
NEtFOSAA	ND	0.11	0.11	0.028	1	2991-50-6		07/07/2022 13:25
PFDS	ND	0.11	0.11	0.028	1	335-77-3		07/07/2022 13:25
PFDOA	ND	0.11	0.11	0.030	1	307-55-1		07/07/2022 13:25
11-CI-PF3OUdS	ND	0.11	0.11	0.018	1	763051-92-9		07/07/2022 13:25
PFTTrDA	ND	0.11	0.11	0.024	1	72629-94-8		07/07/2022 13:25
PFTDA	ND	0.11	0.11	0.036	1	376-06-7		07/07/2022 13:25

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB122-3	Total Amount Extracted	5.02g
Lab Sample ID	10609607018-R	Percent Moisture	11.4735%
Lab File ID	Q220707A_014	Dry Weight Extracted	4.44g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:30	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.1	0.98	87	50-150		07/07/2022 13:25
13C4 PFOA	1.1	0.95	84	50-150		07/07/2022 13:25
13C2 PFDA	1.1	1.00	89	50-150		07/07/2022 13:25
13C4 PFOS	1.1	0.92	86	50-150		07/07/2022 13:25

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.1	0.94	84	50-150		07/07/2022 13:25
13C5 PFPeA	1.1	0.92	82	50-150		07/07/2022 13:25
13C3 PFBS	1.0	0.85	81	50-150		07/07/2022 13:25
13C2 4:2FTS	1.1	0.87	83	50-150		07/07/2022 13:25
13C5 PFHxA	1.1	0.86	77	50-150		07/07/2022 13:25
13C4 PFHpA	1.1	1.0	90	50-150		07/07/2022 13:25
13C3 PFHxS	1.1	0.83	78	50-150		07/07/2022 13:25
13C2 6:2FTS	1.1	0.79	74	50-150		07/07/2022 13:25
13C8 PFOA	1.1	0.89	79	50-150		07/07/2022 13:25
13C9 PFNA	1.1	0.93	83	50-150		07/07/2022 13:25
13C8 PFOS	1.1	0.85	79	50-150		07/07/2022 13:25
13C2 8:2FTS	1.1	0.81	75	50-150		07/07/2022 13:25
13C6 PFDA	1.1	0.98	87	50-150		07/07/2022 13:25
d3-MeFOSAA	1.1	0.81	72	50-150		07/07/2022 13:25
13C8 PFOSA	1.1	0.53	47	50-150	R	07/07/2022 13:25
d5-EtFOSAA	1.1	0.86	77	50-150		07/07/2022 13:25
13C7 PFUdA	1.1	0.90	80	50-150		07/07/2022 13:25
13C2 PFDoA	1.1	0.79	70	50-150		07/07/2022 13:25
13C2 PFTeDA	1.1	0.75	67	50-150		07/07/2022 13:25
13C3 HFPO-DA	1.1	0.79	70	50-150		07/07/2022 13:25
13C2 PFHxDA	1.1	0.74	66	50-150		07/07/2022 13:25
d3-N-MeFOSA	1.1	0.00061	0	10-150	R	07/07/2022 13:25

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB122-3	Total Amount Extracted	5.02g
Lab Sample ID	10609607018-R	Percent Moisture	11.4735%
Lab File ID	Q220707A_014	Dry Weight Extracted	4.44g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:30	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.24	6.19	16		07/07/2022 13:25
13C4 PFOA	N/A	N/A	7.55	7.50	18		07/07/2022 13:25
13C2 PFDA	N/A	N/A	8.86	8.81	10		07/07/2022 13:25
13C4 PFOS	N/A	N/A	9.28	9.23	38		07/07/2022 13:25

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	25		07/07/2022 13:25
13C5 PFPeA	N/A	N/A	5.56	5.53	17		07/07/2022 13:25
13C3 PFBS	N/A	N/A	6.46	6.39	16		07/07/2022 13:25
13C2 4:2FTS	N/A	N/A	5.97	5.95	41		07/07/2022 13:25
13C5 PFHxA	N/A	N/A	6.24	6.23	12		07/07/2022 13:25
13C4 PFHpA	N/A	N/A	6.90	6.87	12		07/07/2022 13:25
13C3 PFHxS	N/A	N/A	7.92	7.90	16		07/07/2022 13:25
13C2 6:2FTS	N/A	N/A	7.22	7.19	22		07/07/2022 13:25
13C8 PFOA	N/A	N/A	7.55	7.50	19		07/07/2022 13:25
13C9 PFNA	N/A	N/A	8.20	8.15	20		07/07/2022 13:25
13C8 PFOS	N/A	N/A	9.28	9.24	22		07/07/2022 13:25
13C2 8:2FTS	N/A	N/A	8.50	8.44	42		07/07/2022 13:25
13C6 PFDA	N/A	N/A	8.86	8.81	10		07/07/2022 13:25
d3-MeFOSAA	N/A	N/A	8.77	8.72	33		07/07/2022 13:25
13C8 PFOSA	N/A	N/A	11.36	11.32	31	R	07/07/2022 13:25
d5-EtFOSAA	N/A	N/A	9.08	9.03	45		07/07/2022 13:25
13C7 PFUdA	N/A	N/A	9.52	9.46	24		07/07/2022 13:25
13C2 PFDaA	N/A	N/A	10.18	10.12	69		07/07/2022 13:25
13C2 PFTeDA	N/A	N/A	11.44	11.40	73		07/07/2022 13:25
13C3 HFPO-DA	N/A	N/A	6.51	6.48	85		07/07/2022 13:25
13C2 PFHxDA	N/A	N/A	12.53	12.50	16		07/07/2022 13:25
d3-N-MeFOSA	N/A	N/A	13.24	13.21	11	R	07/07/2022 13:25

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB122-3	Total Amount Extracted	5.02g
Lab Sample ID	10609607018-R	Percent Moisture	11.4735%
Lab File ID	Q220707A_014	Dry Weight Extracted	4.44g
Matrix	Soil	Ical ID	220629B01
Collected	05/19/2022 17:30	CCal File	Q220707A_011
Received	05/21/2022 10:00	Ending CCal File	Q220707A_018
Extraction Date	07/05/2022 11:39	Blank File	Q220708A_005

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.73	4.77	ND		07/07/2022 13:25
PFPeA	N/A	N/A	5.57	5.54	28		07/07/2022 13:25
HFPO-DA	0.00	0.36	0.00	6.44	ND		07/07/2022 13:25
PFBS	0.41	0.34	6.47	6.47	ND		07/07/2022 13:25
PFHxA	0.08	0.08	6.25	6.17	ND		07/07/2022 13:25
4:2 FTS	0.00	1.10	0.00	5.91	ND		07/07/2022 13:25
PFPeS	0.39	0.34	7.23	7.22	ND		07/07/2022 13:25
PFHpA	0.40	0.39	6.91	6.81	ND		07/07/2022 13:25
DONA	0.00	0.44	0.00	7.11	ND		07/07/2022 13:25
PFHxS	0.32	0.34	7.92	7.92	67		07/07/2022 13:25
PFOA	0.28	0.30	7.56	7.51	ND		07/07/2022 13:25
6:2 FTS	0.00	1.70	0.00	7.17	ND		07/07/2022 13:25
PFHpS	0.31	0.41	8.62	8.57	ND		07/07/2022 13:25
PFNA	0.22	0.25	8.21	8.16	ND		07/07/2022 13:25
PFOSAm	N/A	N/A	11.34	11.33	ND		07/07/2022 13:25
PFOS	0.21	0.21	9.30	9.24	29		07/07/2022 13:25
MeFOSA	0.00	0.48	0.00	13.23	ND		07/07/2022 13:25
PFDA	0.24	0.15	8.87	8.82	ND		07/07/2022 13:25
8:2 FTS	2.70	1.70	8.48	8.45	ND		07/07/2022 13:25
9-Cl-PF3ON	0.00	0.03	0.00	9.72	ND		07/07/2022 13:25
PFNS	0.00	0.23	0.00	9.90	ND		07/07/2022 13:25
PFUnDA	0.11	0.17	9.53	9.47	ND		07/07/2022 13:25
NMeFOSAA	0.00	0.67	0.00	8.73	ND		07/07/2022 13:25
NEtFOSAA	0.00	0.65	0.00	9.04	ND		07/07/2022 13:25
PFDS	0.00	0.28	0.00	10.55	ND		07/07/2022 13:25
PFDOA	0.00	0.20	0.00	10.13	ND		07/07/2022 13:25
11-Cl-PF3OUdS	0.00	0.02	0.00	11.01	ND		07/07/2022 13:25
PFTrDA	0.00	0.18	0.00	10.77	ND		07/07/2022 13:25
PFTDA	0.00	0.16	0.00	11.40	ND		07/07/2022 13:25

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB122-1
 Lab Sample ID 10609607019
 Lab File ID B220622B_039
 Matrix Soil
 Collected 05/19/2022 17:21
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.07g
 Percent Moisture 10.793%
 Dry Weight Extracted 4.52g
 Ical ID 220621B02
 CCal File B220622B_030
 Ending CCal File B220622B_042
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.099	0.023	1	375-22-4		06/22/2022 22:55
PFPeA	0.16 B	0.099	0.099	0.026	1	2706-90-3		06/22/2022 22:55
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/22/2022 22:55
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/22/2022 22:55
PFHxA	ND	0.099	0.099	0.030	1	307-24-4		06/22/2022 22:55
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/22/2022 22:55
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/22/2022 22:55
PFHpA	ND	0.099	0.099	0.022	1	375-85-9		06/22/2022 22:55
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/22/2022 22:55
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/22/2022 22:55
PFOA	ND	0.099	0.099	0.022	1	335-67-1		06/22/2022 22:55
6:2 FTS	ND	0.094	0.094	0.032	1	27619-97-2		06/22/2022 22:55
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/22/2022 22:55
PFNA	ND	0.099	0.099	0.028	1	375-95-1		06/22/2022 22:55
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/22/2022 22:55
PFOS	0.22	0.091	0.091	0.027	1	1763-23-1		06/22/2022 22:55
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/22/2022 22:55
PFDA	ND	0.099	0.099	0.021	1	335-76-2		06/22/2022 22:55
8:2 FTS	ND	0.095	0.095	0.026	1	39108-34-4		06/22/2022 22:55
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/22/2022 22:55
PFNS	ND	0.095	0.095	0.018	1	68259-12-1		06/22/2022 22:55
PFUnDA	ND	0.099	0.099	0.028	1	2058-94-8		06/22/2022 22:55
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/22/2022 22:55
NEtFOSAA	ND	0.099	0.099	0.024	1	2991-50-6		06/22/2022 22:55
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/22/2022 22:55
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/22/2022 22:55
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/22/2022 22:55
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/22/2022 22:55
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/22/2022 22:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB122-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607019	Percent Moisture	10.793%
Lab File ID	B220622B_039	Dry Weight Extracted	4.52g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 17:21	CCal File	B220622B_030
Received	05/21/2022 10:00	Ending CCal File	B220622B_042
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	1.0	103	50-150		06/22/2022 22:55
13C4 PFOA	0.99	1.0	103	50-150		06/22/2022 22:55
13C2 PFDA	0.99	1.00	101	50-150		06/22/2022 22:55
13C4 PFOS	0.94	0.97	103	50-150		06/22/2022 22:55

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.93	94	50-150		06/22/2022 22:55
13C5 PFPeA	0.99	0.97	98	50-150		06/22/2022 22:55
13C3 PFBS	0.92	0.89	97	50-150		06/22/2022 22:55
13C2 4:2FTS	0.92	0.85	93	50-150		06/22/2022 22:55
13C5 PFHxA	0.99	0.96	97	50-150		06/22/2022 22:55
13C4 PFHpA	0.99	0.88	89	50-150		06/22/2022 22:55
13C3 PFHxS	0.93	0.86	92	50-150		06/22/2022 22:55
13C2 6:2FTS	0.94	0.94	100	50-150		06/22/2022 22:55
13C8 PFOA	0.99	0.87	88	50-150		06/22/2022 22:55
13C9 PFNA	0.99	0.97	98	50-150		06/22/2022 22:55
13C8 PFOS	0.94	0.84	89	50-150		06/22/2022 22:55
13C2 8:2FTS	0.95	0.83	88	50-150		06/22/2022 22:55
13C6 PFDA	0.99	0.95	97	50-150		06/22/2022 22:55
d3-MeFOSAA	0.99	0.85	87	50-150		06/22/2022 22:55
13C8 PFOSA	0.99	0.55	56	50-150		06/22/2022 22:55
d5-EtFOSAA	0.99	0.87	88	50-150		06/22/2022 22:55
13C7 PFUdA	0.99	0.86	87	50-150		06/22/2022 22:55
13C2 PFDoA	0.99	0.92	93	50-150		06/22/2022 22:55
13C2 PFTeDA	0.99	0.85	86	50-150		06/22/2022 22:55
13C3 HFPO-DA	0.99	0.89	90	50-150		06/22/2022 22:55
13C2 PFHxDA	0.99	0.86	87	50-150		06/22/2022 22:55
d3-N-MeFOSA	0.99	0.0063	1	10-150	R	06/22/2022 22:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB122-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607019	Percent Moisture	10.793%
Lab File ID	B220622B_039	Dry Weight Extracted	4.52g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 17:21	CCal File	B220622B_030
Received	05/21/2022 10:00	Ending CCal File	B220622B_042
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.81	24		06/22/2022 22:55
13C4 PFOA	N/A	N/A	7.21	7.17	24		06/22/2022 22:55
13C2 PFDA	N/A	N/A	8.57	8.54	27		06/22/2022 22:55
13C4 PFOS	N/A	N/A	9.04	9.01	19		06/22/2022 22:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.38	4.38	26		06/22/2022 22:55
13C5 PFPeA	N/A	N/A	5.19	5.16	26		06/22/2022 22:55
13C3 PFBS	N/A	N/A	6.13	6.13	94		06/22/2022 22:55
13C2 4:2FTS	N/A	N/A	5.59	5.52	48		06/22/2022 22:55
13C5 PFHxA	N/A	N/A	5.87	5.84	19		06/22/2022 22:55
13C4 PFHpA	N/A	N/A	6.54	6.49	18		06/22/2022 22:55
13C3 PFHxS	N/A	N/A	7.64	7.59	22		06/22/2022 22:55
13C2 6:2FTS	N/A	N/A	6.86	6.82	13		06/22/2022 22:55
13C8 PFOA	N/A	N/A	7.21	7.17	24		06/22/2022 22:55
13C9 PFNA	N/A	N/A	7.89	7.85	33		06/22/2022 22:55
13C8 PFOS	N/A	N/A	9.05	9.01	40		06/22/2022 22:55
13C2 8:2FTS	N/A	N/A	8.18	8.15	49		06/22/2022 22:55
13C6 PFDA	N/A	N/A	8.57	8.54	27		06/22/2022 22:55
d3-MeFOSAA	N/A	N/A	8.44	8.40	23		06/22/2022 22:55
13C8 PFOSA	N/A	N/A	10.80	10.77	25		06/22/2022 22:55
d5-EtFOSAA	N/A	N/A	8.74	8.71	15		06/22/2022 22:55
13C7 PFUdA	N/A	N/A	9.24	9.22	42		06/22/2022 22:55
13C2 PFDoA	N/A	N/A	9.92	9.90	15		06/22/2022 22:55
13C2 PFTeDA	N/A	N/A	11.22	11.21	21		06/22/2022 22:55
13C3 HFPO-DA	N/A	N/A	6.15	6.13	15		06/22/2022 22:55
13C2 PFHxDA	N/A	N/A	12.38	12.36	31		06/22/2022 22:55
d3-N-MeFOSA	N/A	N/A	12.69	12.66	10	R	06/22/2022 22:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB122-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607019	Percent Moisture	10.793%
Lab File ID	B220622B_039	Dry Weight Extracted	4.52g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 17:21	CCal File	B220622B_030
Received	05/21/2022 10:00	Ending CCal File	B220622B_042
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.39	4.33	ND		06/22/2022 22:55
PFPeA	N/A	N/A	5.19	5.17	36	B	06/22/2022 22:55
HFPO-DA	0.34	0.29	6.16	6.10	ND		06/22/2022 22:55
PFBS	0.44	0.47	6.14	6.07	ND		06/22/2022 22:55
PFHxA	0.08	0.09	5.88	5.82	ND		06/22/2022 22:55
4:2 FTS	0.00	0.92	0.00	5.53	ND		06/22/2022 22:55
PFPeS	0.50	0.49	6.91	6.86	ND		06/22/2022 22:55
PFHpA	0.30	0.32	6.54	6.50	ND		06/22/2022 22:55
DONA	0.65	0.63	6.79	6.75	ND		06/22/2022 22:55
PFHxS	0.37	0.37	7.64	7.60	ND		06/22/2022 22:55
PFOA	0.39	0.40	7.22	7.18	ND		06/22/2022 22:55
6:2 FTS	0.75	0.91	6.86	6.82	ND		06/22/2022 22:55
PFHpS	0.39	0.39	8.36	8.32	ND		06/22/2022 22:55
PFNA	0.16	0.15	7.90	7.86	ND		06/22/2022 22:55
PFOSAm	N/A	N/A	10.81	10.78	ND		06/22/2022 22:55
PFOS	0.36	0.40	9.05	9.03	24		06/22/2022 22:55
MeFOSA	0.00	0.57	0.00	12.69	ND		06/22/2022 22:55
PFDA	0.30	0.18	8.58	8.54	ND		06/22/2022 22:55
8:2 FTS	0.00	0.95	0.00	8.15	ND		06/22/2022 22:55
9-Cl-PF3ON	0.00	0.07	0.00	9.52	ND		06/22/2022 22:55
PFNS	0.00	0.51	0.00	9.71	ND		06/22/2022 22:55
PFUnDA	0.09	0.15	9.25	9.22	ND		06/22/2022 22:55
NMeFOSAA	0.00	0.85	0.00	8.41	ND		06/22/2022 22:55
NEtFOSAA	0.00	0.64	0.00	8.72	ND		06/22/2022 22:55
PFDS	0.00	0.35	0.00	10.37	ND		06/22/2022 22:55
PFDOA	0.09	0.17	9.91	9.90	ND		06/22/2022 22:55
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 22:55
PFTDA	0.00	0.16	0.00	10.57	ND		06/22/2022 22:55
PFTDA	0.22	0.24	11.22	11.21	ND		06/22/2022 22:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB124-1
 Lab Sample ID 10609607020
 Lab File ID B220622B_061
 Matrix Soil
 Collected 05/19/2022 14:48
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.08g
 Percent Moisture 65.5766%
 Dry Weight Extracted 1.75g
 Ical ID 220621B02
 CCal File B220622B_053
 Ending CCal File B220622B_070
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.17	0.098	0.098	0.023	1	375-22-4		06/23/2022 06:15
PFPeA	1.5	0.098	0.098	0.026	1	2706-90-3		06/23/2022 06:15
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/23/2022 06:15
PFBS	0.13	0.087	0.087	0.022	1	375-73-5		06/23/2022 06:15
PFHxA	0.72	0.098	0.098	0.030	1	307-24-4		06/23/2022 06:15
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/23/2022 06:15
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/23/2022 06:15
PFHpA	0.16	0.098	0.098	0.022	1	375-85-9		06/23/2022 06:15
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/23/2022 06:15
PFHxS	0.10	0.090	0.090	0.022	1	355-46-4		06/23/2022 06:15
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/23/2022 06:15
6:2 FTS	ND	0.094	0.094	0.031	1	27619-97-2		06/23/2022 06:15
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/23/2022 06:15
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/23/2022 06:15
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/23/2022 06:15
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/23/2022 06:15
MeFOSA	ND	0.098	0.098	0.025	1	31506-32-8		06/23/2022 06:15
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/23/2022 06:15
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/23/2022 06:15
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/23/2022 06:15
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/23/2022 06:15
PFUnDA	ND	0.098	0.098	0.028	1	2058-94-8		06/23/2022 06:15
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/23/2022 06:15
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/23/2022 06:15
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/23/2022 06:15
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/23/2022 06:15
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/23/2022 06:15
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/23/2022 06:15
PFTDA	ND	0.098	0.098	0.032	1	376-06-7		06/23/2022 06:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB124-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607020	Percent Moisture	65.5766%
Lab File ID	B220622B_061	Dry Weight Extracted	1.75g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 14:48	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.45	46	50-150	R	06/23/2022 06:15
13C4 PFOA	0.98	0.48	48	50-150	R	06/23/2022 06:15
13C2 PFDA	0.98	0.41	42	50-150	R	06/23/2022 06:15
13C4 PFOS	0.94	0.82	87	50-150		06/23/2022 06:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.18	18	50-150	R	06/23/2022 06:15
13C5 PFPeA	0.98	0.17	18	50-150	R	06/23/2022 06:15
13C3 PFBS	0.91	0.30	32	50-150	R	06/23/2022 06:15
13C2 4:2FTS	0.92	0.69	75	50-150		06/23/2022 06:15
13C5 PFHxA	0.98	0.19	19	50-150	R	06/23/2022 06:15
13C4 PFHpA	0.98	0.23	24	50-150	R	06/23/2022 06:15
13C3 PFHxS	0.93	0.31	33	50-150	R	06/23/2022 06:15
13C2 6:2FTS	0.93	0.98	105	50-150		06/23/2022 06:15
13C8 PFOA	0.98	0.23	24	50-150	R	06/23/2022 06:15
13C9 PFNA	0.98	0.23	23	50-150	R	06/23/2022 06:15
13C8 PFOS	0.94	0.33	35	50-150	R	06/23/2022 06:15
13C2 8:2FTS	0.94	0.66	70	50-150		06/23/2022 06:15
13C6 PFDA	0.98	0.19	20	50-150	R	06/23/2022 06:15
d3-MeFOSAA	0.98	0.24	25	50-150	R	06/23/2022 06:15
13C8 PFOSA	0.98	0.15	15	50-150	R	06/23/2022 06:15
d5-EtFOSAA	0.98	0.26	27	50-150	R	06/23/2022 06:15
13C7 PFUdA	0.98	0.20	20	50-150	R	06/23/2022 06:15
13C2 PFDoA	0.98	0.19	19	50-150	R	06/23/2022 06:15
13C2 PFTeDA	0.98	0.19	19	50-150	R	06/23/2022 06:15
13C3 HFPO-DA	0.98	0.18	18	50-150	R	06/23/2022 06:15
13C2 PFHxDA	0.98	0.17	17	50-150	R	06/23/2022 06:15
d3-N-MeFOSA	0.98	0.11	12	10-150		06/23/2022 06:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB124-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607020	Percent Moisture	65.5766%
Lab File ID	B220622B_061	Dry Weight Extracted	1.75g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 14:48	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.81	98	R	06/23/2022 06:15
13C4 PFOA	N/A	N/A	7.16	7.17	12	R	06/23/2022 06:15
13C2 PFDA	N/A	N/A	8.52	8.54	83	R	06/23/2022 06:15
13C4 PFOS	N/A	N/A	9.00	9.01	31		06/23/2022 06:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.34	4.38	11	R	06/23/2022 06:15
13C5 PFPeA	N/A	N/A	5.14	5.16	10	R	06/23/2022 06:15
13C3 PFBS	N/A	N/A	6.08	6.13	48	R	06/23/2022 06:15
13C2 4:2FTS	N/A	N/A	5.54	5.52	20		06/23/2022 06:15
13C5 PFHxA	N/A	N/A	5.82	5.84	54	R	06/23/2022 06:15
13C4 PFHpA	N/A	N/A	6.49	6.49	71	R	06/23/2022 06:15
13C3 PFHxS	N/A	N/A	7.59	7.59	44	R	06/23/2022 06:15
13C2 6:2FTS	N/A	N/A	6.81	6.82	19		06/23/2022 06:15
13C8 PFOA	N/A	N/A	7.16	7.17	86	R	06/23/2022 06:15
13C9 PFNA	N/A	N/A	7.84	7.85	43	R	06/23/2022 06:15
13C8 PFOS	N/A	N/A	9.00	9.01	19	R	06/23/2022 06:15
13C2 8:2FTS	N/A	N/A	8.14	8.15	17		06/23/2022 06:15
13C6 PFDA	N/A	N/A	8.52	8.54	52	R	06/23/2022 06:15
d3-MeFOSAA	N/A	N/A	8.39	8.40	45	R	06/23/2022 06:15
13C8 PFOSA	N/A	N/A	10.80	10.77	17	R	06/23/2022 06:15
d5-EtFOSAA	N/A	N/A	8.69	8.71	40	R	06/23/2022 06:15
13C7 PFUdA	N/A	N/A	9.19	9.22	54	R	06/23/2022 06:15
13C2 PFDaA	N/A	N/A	9.87	9.90	43	R	06/23/2022 06:15
13C2 PFTeDA	N/A	N/A	11.17	11.21	55	R	06/23/2022 06:15
13C3 HFPO-DA	N/A	N/A	6.09	6.13	71	R	06/23/2022 06:15
13C2 PFHxDA	N/A	N/A	12.33	12.36	49	R	06/23/2022 06:15
d3-N-MeFOSA	N/A	N/A	12.70	12.66	16		06/23/2022 06:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB124-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607020	Percent Moisture	65.5766%
Lab File ID	B220622B_061	Dry Weight Extracted	1.75g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 14:48	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.34	4.33	17		06/23/2022 06:15
PFPeA	N/A	N/A	5.15	5.17	13		06/23/2022 06:15
HFPO-DA	0.36	0.28	6.10	6.10	ND		06/23/2022 06:15
PFBS	0.50	0.43	6.09	6.07	15		06/23/2022 06:15
PFHxA	0.08	0.09	5.83	5.82	82		06/23/2022 06:15
4:2 FTS	0.00	1.00	0.00	5.53	ND		06/23/2022 06:15
PFPeS	0.36	0.42	6.86	6.86	ND		06/23/2022 06:15
PFHpA	0.31	0.32	6.50	6.50	22		06/23/2022 06:15
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 06:15
PFHxS	0.28	0.37	7.59	7.60	63		06/23/2022 06:15
PFOA	0.07	0.37	7.11	7.18	ND		06/23/2022 06:15
6:2 FTS	0.84	0.93	6.81	6.82	ND		06/23/2022 06:15
PFHpS	0.00	0.39	0.00	8.32	ND		06/23/2022 06:15
PFNA	0.00	0.14	0.00	7.86	ND		06/23/2022 06:15
PFOSAm	N/A	N/A	10.81	10.78	ND		06/23/2022 06:15
PFOS	0.44	0.41	9.01	9.03	ND		06/23/2022 06:15
MeFOSA	0.00	0.48	0.00	12.69	ND		06/23/2022 06:15
PFDA	0.00	0.18	0.00	8.54	ND		06/23/2022 06:15
8:2 FTS	0.00	0.92	0.00	8.15	ND		06/23/2022 06:15
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 06:15
PFNS	0.00	0.50	0.00	9.71	ND		06/23/2022 06:15
PFUnDA	0.00	0.13	0.00	9.22	ND		06/23/2022 06:15
NMeFOSAA	0.00	0.78	0.00	8.41	ND		06/23/2022 06:15
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/23/2022 06:15
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 06:15
PFDOA	0.00	0.17	0.00	9.90	ND		06/23/2022 06:15
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 06:15
PFTrDA	0.00	0.14	0.00	10.57	ND		06/23/2022 06:15
PFTDA	0.00	0.23	0.00	11.21	ND		06/23/2022 06:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB125-1
 Lab Sample ID 10609607021
 Lab File ID Q220621A_014
 Matrix Soil
 Collected 05/19/2022 15:10
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.02g
 Percent Moisture 50.4857%
 Dry Weight Extracted 2.49g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	1.3	0.20	0.20	0.048	1	375-22-4		06/21/2022 12:21
PFPeA	6.9	0.20	0.20	0.053	1	2706-90-3		06/21/2022 12:21
HFPO-DA	ND	0.20	0.20	0.060	1	13252-13-6		06/21/2022 12:21
PFBS	0.89	0.18	0.18	0.044	1	375-73-5		06/21/2022 12:21
PFHxA	6.8	0.20	0.20	0.060	1	307-24-4		06/21/2022 12:21
4:2 FTS	ND	0.19	0.19	0.064	1	757124-72-4		06/21/2022 12:21
PFPeS	1.2	0.19	0.19	0.037	1	2706-91-4		06/21/2022 12:21
PFHpA	3.2	0.20	0.20	0.045	1	375-85-9		06/21/2022 12:21
DONA	ND	0.19	0.19	0.077	1	919005-14-4		06/21/2022 12:21
PFHxS	7.2	0.18	0.18	0.045	1	355-46-4		06/21/2022 12:21
PFOA	2.2	0.20	0.20	0.045	1	335-67-1		06/21/2022 12:21
6:2 FTS	2.9	0.19	0.19	0.064	1	27619-97-2		06/21/2022 12:21
PFHpS	0.33	0.19	0.19	0.050	1	375-92-8		06/21/2022 12:21
PFNA	0.70	0.20	0.20	0.058	1	375-95-1		06/21/2022 12:21
PFOSAm	ND	0.20	0.20	0.047	1	754-91-6		06/21/2022 12:21
PFOS	19 D	0.37	0.37	0.11	2	1763-23-1		06/23/2022 02:35
MeFOSA	ND	0.20	0.20	0.050	1	31506-32-8		06/21/2022 12:21
PFDA	0.45	0.20	0.20	0.044	1	335-76-2		06/21/2022 12:21
8:2 FTS	1.4	0.19	0.19	0.052	1	39108-34-4		06/21/2022 12:21
9-CI-PF3ON	ND	0.19	0.19	0.029	1	756426-58-1		06/21/2022 12:21
PFNS	ND	0.19	0.19	0.036	1	68259-12-1		06/21/2022 12:21
PFUnDA	0.45	0.20	0.20	0.057	1	2058-94-8		06/21/2022 12:21
NMeFOSAA	ND	0.20	0.20	0.047	1	2355-31-9		06/21/2022 12:21
NEtFOSAA	ND	0.20	0.20	0.050	1	2991-50-6		06/21/2022 12:21
PFDS	ND	0.19	0.19	0.051	1	335-77-3		06/21/2022 12:21
PFDOA	ND	0.20	0.20	0.054	1	307-55-1		06/21/2022 12:21
11-CI-PF3OUdS	ND	0.19	0.19	0.033	1	763051-92-9		06/21/2022 12:21
PFTTrDA	ND	0.20	0.20	0.043	1	72629-94-8		06/21/2022 12:21
PFTDA	ND	0.20	0.20	0.065	1	376-06-7		06/21/2022 12:21

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB125-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607021	Percent Moisture	50.4857%
Lab File ID	Q220621A_014	Dry Weight Extracted	2.49g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 15:10	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	2.0	0.99	49	50-150	R	06/21/2022 12:21
13C4 PFOA	2.0	0.70	35	50-150	R	06/21/2022 12:21
13C2 PFDA	2.0	1.0	50	50-150		06/21/2022 12:21
13C4 PFOS	1.9	0.98	51	50-150		06/21/2022 12:21

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	2.0	0.81	40	50-150	R	06/21/2022 12:21
13C5 PFPeA	2.0	0.76	38	50-150	R	06/21/2022 12:21
13C3 PFBS	1.9	1.1	58	50-150		06/21/2022 12:21
13C2 4:2FTS	1.9	2.6	138	50-150		06/21/2022 12:21
13C5 PFHxA	2.0	0.72	36	50-150	R	06/21/2022 12:21
13C4 PFHpA	2.0	0.82	41	50-150	R	06/21/2022 12:21
13C3 PFHxS	1.9	0.89	47	50-150	R	06/21/2022 12:21
13C2 6:2FTS	1.9	3.6	191	50-150	R	06/21/2022 12:21
13C8 PFOA	2.0	0.65	32	50-150	R	06/21/2022 12:21
13C9 PFNA	2.0	0.87	43	50-150	R	06/21/2022 12:21
13C8 PFOS	1.9	1.5	78	50-150	D	06/23/2022 02:35
13C2 8:2FTS	1.9	4.8	247	50-150	R	06/21/2022 12:21
13C6 PFDA	2.0	0.85	42	50-150	R	06/21/2022 12:21
d3-MeFOSAA	2.0	1.4	68	50-150		06/21/2022 12:21
13C8 PFOSA	2.0	0.47	23	50-150	R	06/21/2022 12:21
d5-EtFOSAA	2.0	1.2	59	50-150		06/21/2022 12:21
13C7 PFUdA	2.0	0.71	35	50-150	R	06/21/2022 12:21
13C2 PFDoA	2.0	0.89	44	50-150	R	06/21/2022 12:21
13C2 PFTeDA	2.0	1.3	67	50-150		06/21/2022 12:21
13C3 HFPO-DA	2.0	0.73	36	50-150	R	06/21/2022 12:21
13C2 PFHxDA	2.0	0.74	37	50-150	R	06/21/2022 12:21
d3-N-MeFOSA	2.0	0.36	18	10-150		06/21/2022 12:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB125-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607021	Percent Moisture	50.4857%
Lab File ID	Q220621A_014	Dry Weight Extracted	2.49g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 15:10	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	98	R	06/21/2022 12:21
13C4 PFOA	N/A	N/A	7.45	7.44	97	R	06/21/2022 12:21
13C2 PFDA	N/A	N/A	8.75	8.74	44		06/21/2022 12:21
13C4 PFOS	N/A	N/A	9.16	9.16	33		06/21/2022 12:21

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.75	15	R	06/21/2022 12:21
13C5 PFPeA	N/A	N/A	5.51	5.53	96	R	06/21/2022 12:21
13C3 PFBS	N/A	N/A	6.38	6.39	43		06/21/2022 12:21
13C2 4:2FTS	N/A	N/A	5.89	5.90	23		06/21/2022 12:21
13C5 PFHxA	N/A	N/A	6.16	6.17	61	R	06/21/2022 12:21
13C4 PFHpA	N/A	N/A	6.81	6.80	87	R	06/21/2022 12:21
13C3 PFHxS	N/A	N/A	7.82	7.81	58	R	06/21/2022 12:21
13C2 6:2FTS	N/A	N/A	7.12	7.10	27	R	06/21/2022 12:21
13C8 PFOA	N/A	N/A	7.45	7.43	91	R	06/21/2022 12:21
13C9 PFNA	N/A	N/A	8.10	8.08	47	R	06/21/2022 12:21
13C8 PFOS	N/A	N/A	9.02	9.01	24	D	06/23/2022 02:35
13C2 8:2FTS	N/A	N/A	8.39	8.38	29	R	06/21/2022 12:21
13C6 PFDA	N/A	N/A	8.75	8.75	47	R	06/21/2022 12:21
d3-MeFOSAA	N/A	N/A	8.66	8.65	35		06/21/2022 12:21
13C8 PFOSA	N/A	N/A	11.27	11.18	15	R	06/21/2022 12:21
d5-EtFOSAA	N/A	N/A	8.96	8.95	36		06/21/2022 12:21
13C7 PFUdA	N/A	N/A	9.40	9.40	47	R	06/21/2022 12:21
13C2 PFDoA	N/A	N/A	10.06	10.05	38	R	06/21/2022 12:21
13C2 PFTeDA	N/A	N/A	11.34	11.30	50		06/21/2022 12:21
13C3 HFPO-DA	N/A	N/A	6.43	6.43	51	R	06/21/2022 12:21
13C2 PFHxDA	N/A	N/A	12.43	12.39	71	R	06/21/2022 12:21
d3-N-MeFOSA	N/A	N/A	13.17	13.17	22		06/21/2022 12:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB125-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607021	Percent Moisture	50.4857%
Lab File ID	Q220621A_014	Dry Weight Extracted	2.49g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 15:10	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.72	4.77	63		06/21/2022 12:21
PFPeA	N/A	N/A	5.51	5.54	31		06/21/2022 12:21
HFPO-DA	0.00	0.35	0.00	6.44	ND		06/21/2022 12:21
PFBS	0.31	0.31	6.40	6.40	28		06/21/2022 12:21
PFHxA	0.08	0.08	6.17	6.17	14		06/21/2022 12:21
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/21/2022 12:21
PFPeS	0.43	0.46	7.13	7.12	22		06/21/2022 12:21
PFHpA	0.45	0.40	6.82	6.81	22		06/21/2022 12:21
DONA	0.00	0.45	0.00	7.04	ND		06/21/2022 12:21
PFHxS	0.31	0.33	7.82	7.82	61		06/21/2022 12:21
PFOA	0.31	0.36	7.46	7.44	10		06/21/2022 12:21
6:2 FTS	1.30	1.30	7.13	7.12	38		06/21/2022 12:21
PFHpS	0.31	0.36	8.51	8.51	42		06/21/2022 12:21
PFNA	0.21	0.29	8.11	8.10	97		06/21/2022 12:21
PFOSAm	N/A	N/A	11.28	11.19	ND		06/21/2022 12:21
PFOS	0.35	0.40	9.03	9.03	30	D	06/23/2022 02:35
MeFOSA	0.00	0.43	0.00	13.09	ND		06/21/2022 12:21
PFDA	0.13	0.21	8.76	8.75	48		06/21/2022 12:21
8:2 FTS	1.50	1.80	8.39	8.38	11		06/21/2022 12:21
9-Cl-PF3ON	0.00	0.02	0.00	9.66	ND		06/21/2022 12:21
PFNS	0.18	0.18	9.83	9.83	ND		06/21/2022 12:21
PFUnDA	0.14	0.18	9.41	9.40	11		06/21/2022 12:21
NMeFOSAA	0.00	0.48	0.00	8.66	ND		06/21/2022 12:21
NEtFOSAA	0.00	0.63	0.00	8.96	ND		06/21/2022 12:21
PFDS	0.35	0.26	10.49	10.47	ND		06/21/2022 12:21
PFDOA	0.16	0.24	10.07	10.05	ND		06/21/2022 12:21
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/21/2022 12:21
PFTDA	0.00	0.19	0.00	10.69	ND		06/21/2022 12:21
PFTDA	0.00	0.14	0.00	11.30	ND		06/21/2022 12:21

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB119-1
 Lab Sample ID 10609607022
 Lab File ID Q220621A_015
 Matrix Soil
 Collected 05/19/2022 15:37
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.10g
 Percent Moisture 59.04%
 Dry Weight Extracted 2.09g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	3.4	0.24	0.24	0.057	1	375-22-4		06/21/2022 12:39
PFPeA	23	0.24	0.24	0.063	1	2706-90-3		06/21/2022 12:39
HFPO-DA	ND	0.24	0.24	0.071	1	13252-13-6		06/21/2022 12:39
PFBS	1.1	0.21	0.21	0.053	1	375-73-5		06/21/2022 12:39
PFHxA	20	0.24	0.24	0.072	1	307-24-4		06/21/2022 12:39
4:2 FTS	ND	0.22	0.22	0.076	1	757124-72-4		06/21/2022 12:39
PFPeS	2.7	0.23	0.23	0.045	1	2706-91-4		06/21/2022 12:39
PFHpA	15	0.24	0.24	0.054	1	375-85-9		06/21/2022 12:39
DONA	ND	0.23	0.23	0.092	1	919005-14-4		06/21/2022 12:39
PFHxS	19	0.22	0.22	0.053	1	355-46-4		06/21/2022 12:39
PFOA	12	0.24	0.24	0.054	1	335-67-1		06/21/2022 12:39
6:2 FTS	72 D	4.5	4.5	1.5	20	27619-97-2		06/23/2022 01:35
PFHpS	3.7	0.23	0.23	0.060	1	375-92-8		06/21/2022 12:39
PFNA	9.4	0.24	0.24	0.068	1	375-95-1		06/21/2022 12:39
PFOSAm	ND	0.24	0.24	0.056	1	754-91-6		06/21/2022 12:39
PFOS	190 D	4.4	4.4	1.3	20	1763-23-1		06/23/2022 01:35
MeFOSA	ND	0.24	0.24	0.060	1	31506-32-8		06/21/2022 12:39
PFDA	1.9	0.24	0.24	0.052	1	335-76-2		06/21/2022 12:39
8:2 FTS	4.8	0.23	0.23	0.062	1	39108-34-4		06/21/2022 12:39
9-CI-PF3ON	ND	0.22	0.22	0.035	1	756426-58-1		06/21/2022 12:39
PFNS	0.28	0.23	0.23	0.043	1	68259-12-1		06/21/2022 12:39
PFUnDA	0.80	0.24	0.24	0.067	1	2058-94-8		06/21/2022 12:39
NMeFOSAA	ND	0.24	0.24	0.056	1	2355-31-9		06/21/2022 12:39
NEtFOSAA	ND	0.24	0.24	0.059	1	2991-50-6		06/21/2022 12:39
PFDS	0.24	0.23	0.23	0.060	1	335-77-3		06/21/2022 12:39
PFDOA	ND	0.24	0.24	0.064	1	307-55-1		06/21/2022 12:39
11-CI-PF3OUdS	ND	0.23	0.23	0.039	1	763051-92-9		06/21/2022 12:39
PFTTrDA	ND	0.24	0.24	0.051	1	72629-94-8		06/21/2022 12:39
PFTDA	ND	0.24	0.24	0.077	1	376-06-7		06/21/2022 12:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB119-1	Total Amount Extracted	5.10g
Lab Sample ID	10609607022	Percent Moisture	59.04%
Lab File ID	Q220621A_015	Dry Weight Extracted	2.09g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 15:37	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	2.4	1.1	47	50-150	R	06/21/2022 12:39
13C4 PFOA	2.4	0.73	31	50-150	R	06/21/2022 12:39
13C2 PFDA	2.4	1.2	48	50-150	R	06/21/2022 12:39
13C4 PFOS	2.3	1.1	49	50-150	R	06/21/2022 12:39

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	2.4	0.72	30	50-150	R	06/21/2022 12:39
13C5 PFPeA	2.4	0.74	31	50-150	R	06/21/2022 12:39
13C3 PFBS	2.2	1.4	62	50-150		06/21/2022 12:39
13C2 4:2FTS	2.2	2.3	102	50-150		06/21/2022 12:39
13C5 PFHxA	2.4	0.77	32	50-150	R	06/21/2022 12:39
13C4 PFHpA	2.4	0.78	32	50-150	R	06/21/2022 12:39
13C3 PFHxS	2.3	0.95	42	50-150	R	06/21/2022 12:39
13C2 6:2FTS	2.3	12	511	50-150	RD	06/23/2022 01:35
13C8 PFOA	2.4	0.65	27	50-150	R	06/21/2022 12:39
13C9 PFNA	2.4	0.91	38	50-150	R	06/21/2022 12:39
13C8 PFOS	2.3	2.3	102	50-150	D	06/23/2022 01:35
13C2 8:2FTS	2.3	4.9	214	50-150	R	06/21/2022 12:39
13C6 PFDA	2.4	0.92	38	50-150	R	06/21/2022 12:39
d3-MeFOSAA	2.4	1.4	58	50-150		06/21/2022 12:39
13C8 PFOSA	2.4	0.46	19	50-150	R	06/21/2022 12:39
d5-EtFOSAA	2.4	1.1	47	50-150	R	06/21/2022 12:39
13C7 PFUdA	2.4	0.82	34	50-150	R	06/21/2022 12:39
13C2 PFDoA	2.4	0.96	40	50-150	R	06/21/2022 12:39
13C2 PFTeDA	2.4	1.3	56	50-150		06/21/2022 12:39
13C3 HFPO-DA	2.4	0.68	28	50-150	R	06/21/2022 12:39
13C2 PFHxDA	2.4	0.61	25	50-150	R	06/21/2022 12:39
d3-N-MeFOSA	2.4	0.35	15	10-150		06/21/2022 12:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB119-1	Total Amount Extracted	5.10g
Lab Sample ID	10609607022	Percent Moisture	59.04%
Lab File ID	Q220621A_015	Dry Weight Extracted	2.09g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 15:37	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	88	R	06/21/2022 12:39
13C4 PFOA	N/A	N/A	7.46	7.44	10	R	06/21/2022 12:39
13C2 PFDA	N/A	N/A	8.76	8.74	36	R	06/21/2022 12:39
13C4 PFOS	N/A	N/A	9.17	9.16	29	R	06/21/2022 12:39

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.75	12	R	06/21/2022 12:39
13C5 PFPeA	N/A	N/A	5.50	5.53	82	R	06/21/2022 12:39
13C3 PFBS	N/A	N/A	6.39	6.39	42		06/21/2022 12:39
13C2 4:2FTS	N/A	N/A	5.89	5.90	15		06/21/2022 12:39
13C5 PFHxA	N/A	N/A	6.16	6.17	55	R	06/21/2022 12:39
13C4 PFHpA	N/A	N/A	6.81	6.80	79	R	06/21/2022 12:39
13C3 PFHxS	N/A	N/A	7.82	7.81	55	R	06/21/2022 12:39
13C2 6:2FTS	N/A	N/A	6.85	6.82	23	RD	06/23/2022 01:35
13C8 PFOA	N/A	N/A	7.46	7.43	75	R	06/21/2022 12:39
13C9 PFNA	N/A	N/A	8.11	8.08	52	R	06/21/2022 12:39
13C8 PFOS	N/A	N/A	9.03	9.01	19	D	06/23/2022 01:35
13C2 8:2FTS	N/A	N/A	8.40	8.38	27	R	06/21/2022 12:39
13C6 PFDA	N/A	N/A	8.76	8.75	41	R	06/21/2022 12:39
d3-MeFOSAA	N/A	N/A	8.67	8.65	34		06/21/2022 12:39
13C8 PFOSA	N/A	N/A	11.29	11.29	12	R	06/21/2022 12:39
d5-EtFOSAA	N/A	N/A	8.97	8.95	54	R	06/21/2022 12:39
13C7 PFUdA	N/A	N/A	9.41	9.40	55	R	06/21/2022 12:39
13C2 PFDoA	N/A	N/A	10.07	10.05	38	R	06/21/2022 12:39
13C2 PFTeDA	N/A	N/A	11.35	11.30	43		06/21/2022 12:39
13C3 HFPO-DA	N/A	N/A	6.44	6.43	51	R	06/21/2022 12:39
13C2 PFHxDA	N/A	N/A	12.42	12.39	52	R	06/21/2022 12:39
d3-N-MeFOSA	N/A	N/A	13.17	13.07	12		06/21/2022 12:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB119-1	Total Amount Extracted	5.10g
Lab Sample ID	10609607022	Percent Moisture	59.04%
Lab File ID	Q220621A_015	Dry Weight Extracted	2.09g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 15:37	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.72	4.77	80		06/21/2022 12:39
PFPeA	N/A	N/A	5.51	5.54	42		06/21/2022 12:39
HFPO-DA	0.00	0.35	0.00	6.44	ND		06/21/2022 12:39
PFBS	0.41	0.31	6.40	6.40	22		06/21/2022 12:39
PFHxA	0.08	0.08	6.17	6.17	21		06/21/2022 12:39
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/21/2022 12:39
PFPeS	0.31	0.46	7.13	7.12	22		06/21/2022 12:39
PFHpA	0.43	0.40	6.82	6.81	16		06/21/2022 12:39
DONA	0.00	0.45	0.00	7.04	ND		06/21/2022 12:39
PFHxS	0.32	0.33	7.83	7.82	67		06/21/2022 12:39
PFOA	0.33	0.36	7.46	7.44	22		06/21/2022 12:39
6:2 FTS	0.92	0.96	6.86	6.82	16	D	06/23/2022 01:35
PFHpS	0.38	0.36	8.52	8.51	13		06/21/2022 12:39
PFNA	0.23	0.29	8.12	8.10	25		06/21/2022 12:39
PFOSAm	N/A	N/A	11.30	11.19	ND		06/21/2022 12:39
PFOS	0.36	0.40	9.04	9.03	35	D	06/23/2022 01:35
MeFOSA	0.00	0.43	0.00	13.09	ND		06/21/2022 12:39
PFDA	0.16	0.21	8.77	8.75	99		06/21/2022 12:39
8:2 FTS	1.50	1.80	8.40	8.38	93		06/21/2022 12:39
9-Cl-PF3ON	0.00	0.02	0.00	9.66	ND		06/21/2022 12:39
PFNS	0.23	0.18	9.85	9.83	22		06/21/2022 12:39
PFUnDA	0.15	0.18	9.42	9.40	13		06/21/2022 12:39
NMeFOSAA	0.00	0.48	0.00	8.66	ND		06/21/2022 12:39
NEtFOSAA	0.00	0.63	0.00	8.96	ND		06/21/2022 12:39
PFDS	0.30	0.26	10.51	10.47	36		06/21/2022 12:39
PFDOA	0.21	0.24	10.07	10.05	ND		06/21/2022 12:39
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/21/2022 12:39
PFTrDA	0.00	0.19	0.00	10.69	ND		06/21/2022 12:39
PFTDA	0.00	0.14	0.00	11.30	ND		06/21/2022 12:39

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB44-1
 Lab Sample ID 10609607023
 Lab File ID Q220621A_016
 Matrix Soil
 Collected 05/19/2022 18:50
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.09g
 Percent Moisture 58.6688%
 Dry Weight Extracted 2.10g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	1.5	0.098	0.098	0.023	1	375-22-4		06/21/2022 12:58
PFPeA	8.9	0.098	0.098	0.026	1	2706-90-3		06/21/2022 12:58
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/21/2022 12:58
PFBS	0.96	0.087	0.087	0.022	1	375-73-5		06/21/2022 12:58
PFHxA	8.3 D	2.0	2.0	0.59	20	307-24-4		06/23/2022 01:15
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/21/2022 12:58
PFPeS	1.3	0.092	0.092	0.018	1	2706-91-4		06/21/2022 12:58
PFHpA	3.0	0.098	0.098	0.022	1	375-85-9		06/21/2022 12:58
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/21/2022 12:58
PFHxS	7.5	0.089	0.089	0.022	1	355-46-4		06/21/2022 12:58
PFOA	4.0	0.098	0.098	0.022	1	335-67-1		06/21/2022 12:58
6:2 FTS	8.1	0.093	0.093	0.031	1	27619-97-2		06/21/2022 12:58
PFHpS	0.83	0.093	0.093	0.025	1	375-92-8		06/21/2022 12:58
PFNA	1.6	0.098	0.098	0.028	1	375-95-1		06/21/2022 12:58
PFOSAm	0.30	0.098	0.098	0.023	1	754-91-6		06/21/2022 12:58
PFOS	52 D	1.8	1.8	0.55	20	1763-23-1		06/23/2022 01:15
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/21/2022 12:58
PFDA	0.67	0.098	0.098	0.021	1	335-76-2		06/21/2022 12:58
8:2 FTS	2.5	0.094	0.094	0.025	1	39108-34-4		06/21/2022 12:58
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/21/2022 12:58
PFNS	0.11 I	0.094	0.094	0.018	1	68259-12-1		06/21/2022 12:58
PFUnDA	0.25	0.098	0.098	0.028	1	2058-94-8		06/21/2022 12:58
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/21/2022 12:58
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/21/2022 12:58
PFDS	0.28	0.095	0.095	0.025	1	335-77-3		06/21/2022 12:58
PFDOA	0.098	0.098	0.098	0.026	1	307-55-1		06/21/2022 12:58
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/21/2022 12:58
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/21/2022 12:58
PFTDA	ND	0.098	0.098	0.032	1	376-06-7		06/21/2022 12:58

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB44-1	Total Amount Extracted	5.09g
Lab Sample ID	10609607023	Percent Moisture	58.6688%
Lab File ID	Q220621A_016	Dry Weight Extracted	2.10g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:50	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.46	47	50-150	R	06/21/2022 12:58
13C4 PFOA	0.98	0.33	34	50-150	R	06/21/2022 12:58
13C2 PFDA	0.98	0.49	50	50-150		06/21/2022 12:58
13C4 PFOS	0.94	0.45	48	50-150	R	06/21/2022 12:58

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.32	32	50-150	R	06/21/2022 12:58
13C5 PFPeA	0.98	0.31	32	50-150	R	06/21/2022 12:58
13C3 PFBS	0.91	0.52	57	50-150		06/21/2022 12:58
13C2 4:2FTS	0.92	1.2	127	50-150		06/21/2022 12:58
13C5 PFHxA	0.98	0.73	74	50-150	D	06/23/2022 01:15
13C4 PFHpA	0.98	0.31	31	50-150	R	06/21/2022 12:58
13C3 PFHxS	0.93	0.41	44	50-150	R	06/21/2022 12:58
13C2 6:2FTS	0.93	1.7	178	50-150	R	06/21/2022 12:58
13C8 PFOA	0.98	0.27	27	50-150	R	06/21/2022 12:58
13C9 PFNA	0.98	0.35	35	50-150	R	06/21/2022 12:58
13C8 PFOS	0.94	0.78	83	50-150	D	06/23/2022 01:15
13C2 8:2FTS	0.94	2.0	208	50-150	R	06/21/2022 12:58
13C6 PFDA	0.98	0.39	39	50-150	R	06/21/2022 12:58
d3-MeFOSAA	0.98	0.66	67	50-150		06/21/2022 12:58
13C8 PFOSA	0.98	0.21	21	50-150	R	06/21/2022 12:58
d5-EtFOSAA	0.98	0.50	51	50-150		06/21/2022 12:58
13C7 PFUdA	0.98	0.32	33	50-150	R	06/21/2022 12:58
13C2 PFDoA	0.98	0.39	39	50-150	R	06/21/2022 12:58
13C2 PFTeDA	0.98	0.49	50	50-150		06/21/2022 12:58
13C3 HFPO-DA	0.98	0.28	29	50-150	R	06/21/2022 12:58
13C2 PFHxDA	0.98	0.093	9	50-150	R	06/21/2022 12:58
d3-N-MeFOSA	0.98	0.15	15	10-150		06/21/2022 12:58

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB44-1	Total Amount Extracted	5.09g
Lab Sample ID	10609607023	Percent Moisture	58.6688%
Lab File ID	Q220621A_016	Dry Weight Extracted	2.10g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:50	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.17	6.16	74	R	06/21/2022 12:58
13C4 PFOA	N/A	N/A	7.47	7.44	97	R	06/21/2022 12:58
13C2 PFDA	N/A	N/A	8.76	8.74	42		06/21/2022 12:58
13C4 PFOS	N/A	N/A	9.17	9.16	30	R	06/21/2022 12:58

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.75	12	R	06/21/2022 12:58
13C5 PFPeA	N/A	N/A	5.51	5.53	93	R	06/21/2022 12:58
13C3 PFBS	N/A	N/A	6.39	6.39	56		06/21/2022 12:58
13C2 4:2FTS	N/A	N/A	5.90	5.90	25		06/21/2022 12:58
13C5 PFHxA	N/A	N/A	5.87	5.84	39	D	06/23/2022 01:15
13C4 PFHpA	N/A	N/A	6.82	6.80	69	R	06/21/2022 12:58
13C3 PFHxS	N/A	N/A	7.83	7.81	53	R	06/21/2022 12:58
13C2 6:2FTS	N/A	N/A	7.14	7.10	19	R	06/21/2022 12:58
13C8 PFOA	N/A	N/A	7.47	7.43	86	R	06/21/2022 12:58
13C9 PFNA	N/A	N/A	8.11	8.08	47	R	06/21/2022 12:58
13C8 PFOS	N/A	N/A	9.03	9.01	20	D	06/23/2022 01:15
13C2 8:2FTS	N/A	N/A	8.40	8.38	22	R	06/21/2022 12:58
13C6 PFDA	N/A	N/A	8.76	8.75	54	R	06/21/2022 12:58
d3-MeFOSAA	N/A	N/A	8.67	8.65	35		06/21/2022 12:58
13C8 PFOSA	N/A	N/A	11.26	11.18	60	R	06/21/2022 12:58
d5-EtFOSAA	N/A	N/A	8.97	8.95	34		06/21/2022 12:58
13C7 PFUdA	N/A	N/A	9.41	9.40	56	R	06/21/2022 12:58
13C2 PFDoA	N/A	N/A	10.06	10.05	41	R	06/21/2022 12:58
13C2 PFTeDA	N/A	N/A	11.32	11.30	54		06/21/2022 12:58
13C3 HFPO-DA	N/A	N/A	6.44	6.43	39	R	06/21/2022 12:58
13C2 PFHxDA	N/A	N/A	12.42	12.39	34	R	06/21/2022 12:58
d3-N-MeFOSA	N/A	N/A	13.17	13.17	15		06/21/2022 12:58

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB44-1	Total Amount Extracted	5.09g
Lab Sample ID	10609607023	Percent Moisture	58.6688%
Lab File ID	Q220621A_016	Dry Weight Extracted	2.10g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:50	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.72	4.77	87		06/21/2022 12:58
PFPeA	N/A	N/A	5.52	5.54	39		06/21/2022 12:58
HFPO-DA	0.00	0.35	0.00	6.44	ND		06/21/2022 12:58
PFBS	0.34	0.31	6.40	6.40	27		06/21/2022 12:58
PFHxA	0.08	0.08	5.88	5.82	23	D	06/23/2022 01:15
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/21/2022 12:58
PFPeS	0.40	0.46	7.14	7.12	23		06/21/2022 12:58
PFHpA	0.44	0.40	6.83	6.81	18		06/21/2022 12:58
DONA	0.00	0.45	0.00	7.04	ND		06/21/2022 12:58
PFHxS	0.32	0.33	7.83	7.82	71		06/21/2022 12:58
PFOA	0.29	0.36	7.47	7.44	17		06/21/2022 12:58
6:2 FTS	1.20	1.30	7.14	7.12	72		06/21/2022 12:58
PFHpS	0.33	0.36	8.52	8.51	80		06/21/2022 12:58
PFNA	0.24	0.29	8.12	8.10	18		06/21/2022 12:58
PFOSAm	N/A	N/A	11.27	11.19	25		06/21/2022 12:58
PFOS	0.36	0.40	9.04	9.03	45	D	06/23/2022 01:15
MeFOSA	0.00	0.43	0.00	13.09	ND		06/21/2022 12:58
PFDA	0.15	0.21	8.77	8.75	10		06/21/2022 12:58
8:2 FTS	1.50	1.80	8.40	8.38	10		06/21/2022 12:58
9-Cl-PF3ON	0.00	0.02	0.00	9.66	ND		06/21/2022 12:58
PFNS	0.29	0.18	9.84	9.83	25	I	06/21/2022 12:58
PFUnDA	0.13	0.18	9.42	9.40	10		06/21/2022 12:58
NMeFOSAA	0.00	0.48	0.00	8.66	ND		06/21/2022 12:58
NEtFOSAA	0.00	0.63	0.00	8.96	ND		06/21/2022 12:58
PFDS	0.31	0.26	10.49	10.47	77		06/21/2022 12:58
PFDOA	0.19	0.24	10.07	10.05	82		06/21/2022 12:58
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/21/2022 12:58
PFTrDA	0.00	0.19	0.00	10.69	ND		06/21/2022 12:58
PFTDA	0.00	0.14	0.00	11.30	ND		06/21/2022 12:58

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB45-1
 Lab Sample ID 10609607024
 Lab File ID Q220621A_020
 Matrix Soil
 Collected 05/19/2022 18:30
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.02g
 Percent Moisture 34.878%
 Dry Weight Extracted 3.27g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	2.5	0.100	0.100	0.024	1	375-22-4		06/21/2022 14:06
PFPeA	7.9	0.100	0.100	0.026	1	2706-90-3		06/21/2022 14:06
HFPO-DA	ND	0.100	0.100	0.030	1	13252-13-6		06/21/2022 14:06
PFBS	1.9	0.088	0.088	0.022	1	375-73-5		06/21/2022 14:06
PFHxA	9.0	0.100	0.100	0.030	1	307-24-4		06/21/2022 14:06
4:2 FTS	ND	0.093	0.093	0.032	1	757124-72-4		06/21/2022 14:06
PFPeS	3.5	0.094	0.094	0.019	1	2706-91-4		06/21/2022 14:06
PFHpA	5.4	0.100	0.100	0.022	1	375-85-9		06/21/2022 14:06
DONA	ND	0.094	0.094	0.038	1	919005-14-4		06/21/2022 14:06
PFHxS	30 D	4.5	4.5	1.1	50	355-46-4		06/23/2022 02:15
PFOA	17 D	5.0	5.0	1.1	50	335-67-1		06/23/2022 02:15
6:2 FTS	60 D	4.7	4.7	1.6	50	27619-97-2		06/23/2022 02:15
PFHpS	6.4	0.095	0.095	0.025	1	375-92-8		06/21/2022 14:06
PFNA	3.6	0.100	0.100	0.028	1	375-95-1		06/21/2022 14:06
PFOSAm	0.15	0.100	0.100	0.023	1	754-91-6		06/21/2022 14:06
PFOS	310 D	4.6	4.6	1.4	50	1763-23-1		06/23/2022 02:15
MeFOSA	ND	0.100	0.100	0.025	1	31506-32-8		06/21/2022 14:06
PFDA	2.3	0.100	0.100	0.022	1	335-76-2		06/21/2022 14:06
8:2 FTS	4.6	0.096	0.096	0.026	1	39108-34-4		06/21/2022 14:06
9-CI-PF3ON	ND	0.093	0.093	0.014	1	756426-58-1		06/21/2022 14:06
PFNS	0.22	0.096	0.096	0.018	1	68259-12-1		06/21/2022 14:06
PFUnDA	0.22	0.100	0.100	0.028	1	2058-94-8		06/21/2022 14:06
NMeFOSAA	ND	0.100	0.100	0.023	1	2355-31-9		06/21/2022 14:06
NEtFOSAA	ND	0.100	0.100	0.025	1	2991-50-6		06/21/2022 14:06
PFDS	0.16	0.096	0.096	0.025	1	335-77-3		06/21/2022 14:06
PFDOA	ND	0.100	0.100	0.027	1	307-55-1		06/21/2022 14:06
11-CI-PF3OUdS	ND	0.094	0.094	0.016	1	763051-92-9		06/21/2022 14:06
PFTTrDA	ND	0.100	0.100	0.021	1	72629-94-8		06/21/2022 14:06
PFTDA	ND	0.100	0.100	0.032	1	376-06-7		06/21/2022 14:06

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB45-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607024	Percent Moisture	34.878%
Lab File ID	Q220621A_020	Dry Weight Extracted	3.27g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:30	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.00	0.71	72	50-150		06/21/2022 14:06
13C4 PFOA	1.00	0.49	49	50-150	R	06/21/2022 14:06
13C2 PFDA	1.00	0.86	87	50-150		06/21/2022 14:06
13C4 PFOS	0.95	0.35	37	50-150	R	06/21/2022 14:06

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.00	0.60	60	50-150		06/21/2022 14:06
13C5 PFPeA	1.00	0.57	57	50-150		06/21/2022 14:06
13C3 PFBS	0.93	0.79	86	50-150		06/21/2022 14:06
13C2 4:2FTS	0.93	2.2	232	50-150	R	06/21/2022 14:06
13C5 PFHxA	1.00	0.64	65	50-150		06/21/2022 14:06
13C4 PFHpA	1.00	0.67	67	50-150		06/21/2022 14:06
13C3 PFHxS	0.94	0.98	104	50-150	D	06/23/2022 02:15
13C2 6:2FTS	0.95	2.1	219	50-150	RD	06/23/2022 02:15
13C8 PFOA	1.00	1.1	106	50-150	D	06/23/2022 02:15
13C9 PFNA	1.00	0.75	76	50-150		06/21/2022 14:06
13C8 PFOS	0.95	0.98	103	50-150	D	06/23/2022 02:15
13C2 8:2FTS	0.95	3.3	341	50-150	R	06/21/2022 14:06
13C6 PFDA	1.00	0.78	78	50-150		06/21/2022 14:06
d3-MeFOSAA	1.00	1.1	107	50-150		06/21/2022 14:06
13C8 PFOSA	1.00	0.39	39	50-150	R	06/21/2022 14:06
d5-EtFOSAA	1.00	0.68	68	50-150		06/21/2022 14:06
13C7 PFUdA	1.00	0.68	68	50-150		06/21/2022 14:06
13C2 PFDaA	1.00	0.74	74	50-150		06/21/2022 14:06
13C2 PFTeDA	1.00	0.93	93	50-150		06/21/2022 14:06
13C3 HFPO-DA	1.00	0.62	62	50-150		06/21/2022 14:06
13C2 PFHxDA	1.00	0.42	42	50-150	R	06/21/2022 14:06
d3-N-MeFOSA	1.00	0.15	15	10-150		06/21/2022 14:06

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB45-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607024	Percent Moisture	34.878%
Lab File ID	Q220621A_020	Dry Weight Extracted	3.27g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:30	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.17	6.16	80		06/21/2022 14:06
13C4 PFOA	N/A	N/A	7.44	7.44	10	R	06/21/2022 14:06
13C2 PFDA	N/A	N/A	8.73	8.74	51		06/21/2022 14:06
13C4 PFOS	N/A	N/A	9.14	9.16	46	R	06/21/2022 14:06

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.75	14		06/21/2022 14:06
13C5 PFPeA	N/A	N/A	5.52	5.53	12		06/21/2022 14:06
13C3 PFBS	N/A	N/A	6.39	6.39	51		06/21/2022 14:06
13C2 4:2FTS	N/A	N/A	5.90	5.90	34	R	06/21/2022 14:06
13C5 PFHxA	N/A	N/A	6.17	6.17	56		06/21/2022 14:06
13C4 PFHpA	N/A	N/A	6.81	6.80	11		06/21/2022 14:06
13C3 PFHxS	N/A	N/A	7.64	7.59	18	D	06/23/2022 02:15
13C2 6:2FTS	N/A	N/A	6.87	6.82	21	RD	06/23/2022 02:15
13C8 PFOA	N/A	N/A	7.21	7.17	49	D	06/23/2022 02:15
13C9 PFNA	N/A	N/A	8.08	8.08	93		06/21/2022 14:06
13C8 PFOS	N/A	N/A	9.03	9.01	25	D	06/23/2022 02:15
13C2 8:2FTS	N/A	N/A	8.36	8.38	37	R	06/21/2022 14:06
13C6 PFDA	N/A	N/A	8.73	8.75	85		06/21/2022 14:06
d3-MeFOSAA	N/A	N/A	8.64	8.65	66		06/21/2022 14:06
13C8 PFOSA	N/A	N/A	11.19	11.18	91	R	06/21/2022 14:06
d5-EtFOSAA	N/A	N/A	8.94	8.95	50		06/21/2022 14:06
13C7 PFUdA	N/A	N/A	9.37	9.40	12		06/21/2022 14:06
13C2 PFDoA	N/A	N/A	10.01	10.05	52		06/21/2022 14:06
13C2 PFTeDA	N/A	N/A	11.25	11.30	91		06/21/2022 14:06
13C3 HFPO-DA	N/A	N/A	6.43	6.43	91		06/21/2022 14:06
13C2 PFHxDA	N/A	N/A	12.35	12.39	10	R	06/21/2022 14:06
d3-N-MeFOSA	N/A	N/A	13.10	13.07	26		06/21/2022 14:06

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB45-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607024	Percent Moisture	34.878%
Lab File ID	Q220621A_020	Dry Weight Extracted	3.27g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:30	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.73	4.77	28		06/21/2022 14:06
PFPeA	N/A	N/A	5.53	5.54	60		06/21/2022 14:06
HFPO-DA	0.00	0.35	0.00	6.44	ND		06/21/2022 14:06
PFBS	0.40	0.31	6.40	6.40	47		06/21/2022 14:06
PFHxA	0.10	0.08	6.17	6.17	43		06/21/2022 14:06
4:2 FTS	0.93	0.92	5.90	5.91	ND		06/21/2022 14:06
PFPeS	0.43	0.46	7.12	7.12	41		06/21/2022 14:06
PFHpA	0.40	0.40	6.81	6.81	17		06/21/2022 14:06
DONA	0.00	0.45	0.00	7.04	ND		06/21/2022 14:06
PFHxS	0.33	0.36	7.64	7.60	26	D	06/23/2022 02:15
PFOA	0.39	0.38	7.22	7.18	29	D	06/23/2022 02:15
6:2 FTS	0.92	0.96	6.87	6.82	16	D	06/23/2022 02:15
PFHpS	0.45	0.36	8.49	8.51	24		06/21/2022 14:06
PFNA	0.25	0.29	8.09	8.10	52		06/21/2022 14:06
PFOSAm	N/A	N/A	11.20	11.19	19		06/21/2022 14:06
PFOS	0.38	0.40	9.04	9.03	41	D	06/23/2022 02:15
MeFOSA	0.00	0.43	0.00	13.09	ND		06/21/2022 14:06
PFDA	0.14	0.21	8.74	8.75	36		06/21/2022 14:06
8:2 FTS	1.40	1.80	8.37	8.38	12		06/21/2022 14:06
9-Cl-PF3ON	0.00	0.02	0.00	9.66	ND		06/21/2022 14:06
PFNS	0.26	0.18	9.80	9.83	33		06/21/2022 14:06
PFUnDA	0.15	0.18	9.38	9.40	24		06/21/2022 14:06
NMeFOSAA	0.00	0.48	0.00	8.66	ND		06/21/2022 14:06
NEtFOSAA	0.00	0.63	0.00	8.96	ND		06/21/2022 14:06
PFDS	0.34	0.26	10.42	10.47	55		06/21/2022 14:06
PFDOA	0.20	0.24	10.02	10.05	ND		06/21/2022 14:06
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/21/2022 14:06
PFTrDA	0.00	0.19	0.00	10.69	ND		06/21/2022 14:06
PFTDA	0.00	0.14	0.00	11.30	ND		06/21/2022 14:06

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Sample Analysis Summary
 PFAS by Isotope Dilution

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Client Sample ID SB46-1
 Lab Sample ID 10609607025
 Lab File ID Q220621A_021
 Matrix Soil
 Collected 05/19/2022 18:18
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.07g
 Percent Moisture 39.6552%
 Dry Weight Extracted 3.06g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	2.6	0.099	0.099	0.023	1	375-22-4		06/21/2022 14:25
PFPeA	9.4	0.099	0.099	0.026	1	2706-90-3		06/21/2022 14:25
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/21/2022 14:25
PFBS	1.1	0.087	0.087	0.022	1	375-73-5		06/21/2022 14:25
PFHxA	13 D	2.0	2.0	0.59	20	307-24-4		06/23/2022 01:55
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/21/2022 14:25
PFPeS	1.9	0.093	0.093	0.018	1	2706-91-4		06/21/2022 14:25
PFHpA	6.4	0.099	0.099	0.022	1	375-85-9		06/21/2022 14:25
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/21/2022 14:25
PFHxS	13 D	1.8	1.8	0.44	20	355-46-4		06/23/2022 01:55
PFOA	6.2	0.099	0.099	0.022	1	335-67-1		06/21/2022 14:25
6:2 FTS	55 D	1.9	1.9	0.63	20	27619-97-2		06/23/2022 01:55
PFHpS	1.1	0.094	0.094	0.025	1	375-92-8		06/21/2022 14:25
PFNA	1.7	0.099	0.099	0.028	1	375-95-1		06/21/2022 14:25
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/21/2022 14:25
PFOS	66 D	1.8	1.8	0.55	20	1763-23-1		06/23/2022 01:55
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/21/2022 14:25
PFDA	0.77	0.099	0.099	0.021	1	335-76-2		06/21/2022 14:25
8:2 FTS	2.8	0.095	0.095	0.026	1	39108-34-4		06/21/2022 14:25
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/21/2022 14:25
PFNS	ND	0.095	0.095	0.018	1	68259-12-1		06/21/2022 14:25
PFUnDA	0.11	0.099	0.099	0.028	1	2058-94-8		06/21/2022 14:25
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/21/2022 14:25
NEtFOSAA	ND	0.099	0.099	0.024	1	2991-50-6		06/21/2022 14:25
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/21/2022 14:25
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/21/2022 14:25
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/21/2022 14:25
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/21/2022 14:25
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/21/2022 14:25

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB46-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607025	Percent Moisture	39.6552%
Lab File ID	Q220621A_021	Dry Weight Extracted	3.06g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:18	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	0.53	54	50-150		06/21/2022 14:25
13C4 PFOA	0.99	0.41	42	50-150	R	06/21/2022 14:25
13C2 PFDA	0.99	0.61	62	50-150		06/21/2022 14:25
13C4 PFOS	0.94	0.52	55	50-150		06/21/2022 14:25

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.47	47	50-150	R	06/21/2022 14:25
13C5 PFPeA	0.99	0.48	48	50-150	R	06/21/2022 14:25
13C3 PFBS	0.92	0.65	71	50-150		06/21/2022 14:25
13C2 4:2FTS	0.92	1.6	172	50-150	R	06/21/2022 14:25
13C5 PFHxA	0.99	1.0	106	50-150	D	06/23/2022 01:55
13C4 PFHpA	0.99	0.49	50	50-150		06/21/2022 14:25
13C3 PFHxS	0.93	1.1	116	50-150	D	06/23/2022 01:55
13C2 6:2FTS	0.94	4.8	514	50-150	RD	06/23/2022 01:55
13C8 PFOA	0.99	0.45	45	50-150	R	06/21/2022 14:25
13C9 PFNA	0.99	0.52	53	50-150		06/21/2022 14:25
13C8 PFOS	0.94	1.1	114	50-150	D	06/23/2022 01:55
13C2 8:2FTS	0.94	2.8	301	50-150	R	06/21/2022 14:25
13C6 PFDA	0.99	0.53	53	50-150		06/21/2022 14:25
d3-MeFOSAA	0.99	0.82	83	50-150		06/21/2022 14:25
13C8 PFOSA	0.99	0.29	30	50-150	R	06/21/2022 14:25
d5-EtFOSAA	0.99	0.67	68	50-150		06/21/2022 14:25
13C7 PFUdA	0.99	0.55	56	50-150		06/21/2022 14:25
13C2 PFDoA	0.99	0.58	59	50-150		06/21/2022 14:25
13C2 PFTeDA	0.99	0.83	85	50-150		06/21/2022 14:25
13C3 HFPO-DA	0.99	0.43	44	50-150	R	06/21/2022 14:25
13C2 PFHxDA	0.99	0.50	51	50-150		06/21/2022 14:25
d3-N-MeFOSA	0.99	0.14	15	10-150		06/21/2022 14:25

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB46-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607025	Percent Moisture	39.6552%
Lab File ID	Q220621A_021	Dry Weight Extracted	3.06g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:18	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.17	6.16	65		06/21/2022 14:25
13C4 PFOA	N/A	N/A	7.44	7.44	13	R	06/21/2022 14:25
13C2 PFDA	N/A	N/A	8.72	8.74	39		06/21/2022 14:25
13C4 PFOS	N/A	N/A	9.13	9.16	38		06/21/2022 14:25

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.75	14	R	06/21/2022 14:25
13C5 PFPeA	N/A	N/A	5.52	5.53	10	R	06/21/2022 14:25
13C3 PFBS	N/A	N/A	6.39	6.39	56		06/21/2022 14:25
13C2 4:2FTS	N/A	N/A	5.90	5.90	24	R	06/21/2022 14:25
13C5 PFHxA	N/A	N/A	5.88	5.84	51	D	06/23/2022 01:55
13C4 PFHpA	N/A	N/A	6.81	6.80	77		06/21/2022 14:25
13C3 PFHxS	N/A	N/A	7.64	7.59	76	D	06/23/2022 01:55
13C2 6:2FTS	N/A	N/A	6.87	6.82	26	RD	06/23/2022 01:55
13C8 PFOA	N/A	N/A	7.44	7.43	10	R	06/21/2022 14:25
13C9 PFNA	N/A	N/A	8.08	8.08	73		06/21/2022 14:25
13C8 PFOS	N/A	N/A	9.03	9.01	42	D	06/23/2022 01:55
13C2 8:2FTS	N/A	N/A	8.36	8.38	35	R	06/21/2022 14:25
13C6 PFDA	N/A	N/A	8.72	8.75	62		06/21/2022 14:25
d3-MeFOSAA	N/A	N/A	8.63	8.65	45		06/21/2022 14:25
13C8 PFOSA	N/A	N/A	11.19	11.18	10	R	06/21/2022 14:25
d5-EtFOSAA	N/A	N/A	8.93	8.95	71		06/21/2022 14:25
13C7 PFUdA	N/A	N/A	9.36	9.40	79		06/21/2022 14:25
13C2 PFDoA	N/A	N/A	10.00	10.05	45		06/21/2022 14:25
13C2 PFTeDA	N/A	N/A	11.25	11.30	65		06/21/2022 14:25
13C3 HFPO-DA	N/A	N/A	6.44	6.43	49	R	06/21/2022 14:25
13C2 PFHxDA	N/A	N/A	12.33	12.39	91		06/21/2022 14:25
d3-N-MeFOSA	N/A	N/A	13.08	13.07	16		06/21/2022 14:25

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB46-1	Total Amount Extracted	5.07g
Lab Sample ID	10609607025	Percent Moisture	39.6552%
Lab File ID	Q220621A_021	Dry Weight Extracted	3.06g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 18:18	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.73	4.77	23		06/21/2022 14:25
PFPeA	N/A	N/A	5.53	5.54	52		06/21/2022 14:25
HFPO-DA	0.00	0.35	0.00	6.44	ND		06/21/2022 14:25
PFBS	0.33	0.31	6.40	6.40	40		06/21/2022 14:25
PFHxA	0.08	0.08	5.89	5.82	32	D	06/23/2022 01:55
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/21/2022 14:25
PFPeS	0.34	0.46	7.12	7.12	39		06/21/2022 14:25
PFHpA	0.39	0.40	6.81	6.81	17		06/21/2022 14:25
DONA	0.00	0.45	0.00	7.04	ND		06/21/2022 14:25
PFHxS	0.36	0.36	7.64	7.60	15	D	06/23/2022 01:55
PFOA	0.31	0.36	7.45	7.44	27		06/21/2022 14:25
6:2 FTS	0.82	0.96	6.87	6.82	21	D	06/23/2022 01:55
PFHpS	0.43	0.36	8.49	8.51	12		06/21/2022 14:25
PFNA	0.24	0.29	8.09	8.10	29		06/21/2022 14:25
PFOSAm	N/A	N/A	11.20	11.19	ND		06/21/2022 14:25
PFOS	0.37	0.40	9.03	9.03	38	D	06/23/2022 01:55
MeFOSA	0.00	0.43	0.00	13.09	ND		06/21/2022 14:25
PFDA	0.17	0.21	8.73	8.75	12		06/21/2022 14:25
8:2 FTS	1.50	1.80	8.37	8.38	10		06/21/2022 14:25
9-Cl-PF3ON	0.00	0.02	0.00	9.66	ND		06/21/2022 14:25
PFNS	0.22	0.18	9.79	9.83	ND		06/21/2022 14:25
PFUnDA	0.12	0.18	9.37	9.40	13		06/21/2022 14:25
NMeFOSAA	0.00	0.48	0.00	8.66	ND		06/21/2022 14:25
NEtFOSAA	0.00	0.63	0.00	8.96	ND		06/21/2022 14:25
PFDS	0.31	0.26	10.42	10.47	ND		06/21/2022 14:25
PFDOA	0.16	0.24	10.02	10.05	ND		06/21/2022 14:25
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/21/2022 14:25
PFTrDA	0.00	0.19	0.00	10.69	ND		06/21/2022 14:25
PFTDA	0.00	0.14	0.00	11.30	ND		06/21/2022 14:25

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB48-1
 Lab Sample ID 10609607026
 Lab File ID Q220621A_022
 Matrix Soil
 Collected 05/19/2022 17:55
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.11g
 Percent Moisture 12.8696%
 Dry Weight Extracted 4.45g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.12	0.098	0.098	0.023	1	375-22-4		06/21/2022 14:43
PFPeA	0.38	0.098	0.098	0.026	1	2706-90-3		06/21/2022 14:43
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/21/2022 14:43
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/21/2022 14:43
PFHxA	0.42	0.098	0.098	0.029	1	307-24-4		06/21/2022 14:43
4:2 FTS	ND	0.091	0.091	0.031	1	757124-72-4		06/21/2022 14:43
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/21/2022 14:43
PFHpA	0.16	0.098	0.098	0.022	1	375-85-9		06/21/2022 14:43
DONA	ND	0.092	0.092	0.038	1	919005-14-4		06/21/2022 14:43
PFHxS	0.75	0.089	0.089	0.022	1	355-46-4		06/21/2022 14:43
PFOA	0.93	0.098	0.098	0.022	1	335-67-1		06/21/2022 14:43
6:2 FTS	2.7	0.093	0.093	0.031	1	27619-97-2		06/21/2022 14:43
PFHpS	0.11	0.093	0.093	0.024	1	375-92-8		06/21/2022 14:43
PFNA	0.48	0.098	0.098	0.028	1	375-95-1		06/21/2022 14:43
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/21/2022 14:43
PFOS	19 D	0.90	0.90	0.27	10	1763-23-1		06/23/2022 00:55
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/21/2022 14:43
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/21/2022 14:43
8:2 FTS	0.18	0.094	0.094	0.025	1	39108-34-4		06/21/2022 14:43
9-CI-PF3ON	ND	0.091	0.091	0.014	1	756426-58-1		06/21/2022 14:43
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/21/2022 14:43
PFUnDA	ND	0.098	0.098	0.027	1	2058-94-8		06/21/2022 14:43
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/21/2022 14:43
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/21/2022 14:43
PFDS	ND	0.094	0.094	0.025	1	335-77-3		06/21/2022 14:43
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/21/2022 14:43
11-CI-PF3OUdS	ND	0.092	0.092	0.016	1	763051-92-9		06/21/2022 14:43
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/21/2022 14:43
PFTDA	ND	0.098	0.098	0.031	1	376-06-7		06/21/2022 14:43

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB48-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607026	Percent Moisture	12.8696%
Lab File ID	Q220621A_022	Dry Weight Extracted	4.45g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 17:55	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	1.2	125	50-150		06/21/2022 14:43
13C4 PFOA	0.98	1.2	125	50-150		06/21/2022 14:43
13C2 PFDA	0.98	1.2	121	50-150		06/21/2022 14:43
13C4 PFOS	0.94	0.85	90	50-150		06/21/2022 14:43

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	1.0	102	50-150		06/21/2022 14:43
13C5 PFPeA	0.98	0.97	99	50-150		06/21/2022 14:43
13C3 PFBS	0.91	1.0	113	50-150		06/21/2022 14:43
13C2 4:2FTS	0.91	1.4	148	50-150		06/21/2022 14:43
13C5 PFHxA	0.98	1.1	115	50-150		06/21/2022 14:43
13C4 PFHpA	0.98	1.4	142	50-150		06/21/2022 14:43
13C3 PFHxS	0.93	0.98	105	50-150		06/21/2022 14:43
13C2 6:2FTS	0.93	1.7	180	50-150	R	06/21/2022 14:43
13C8 PFOA	0.98	1.0	103	50-150		06/21/2022 14:43
13C9 PFNA	0.98	1.4	139	50-150		06/21/2022 14:43
13C8 PFOS	0.94	0.95	102	50-150	D	06/23/2022 00:55
13C2 8:2FTS	0.94	2.6	281	50-150	R	06/21/2022 14:43
13C6 PFDA	0.98	1.3	136	50-150		06/21/2022 14:43
d3-MeFOSAA	0.98	1.4	147	50-150		06/21/2022 14:43
13C8 PFOSA	0.98	0.44	45	50-150	R	06/21/2022 14:43
d5-EtFOSAA	0.98	1.2	124	50-150		06/21/2022 14:43
13C7 PFUdA	0.98	1.2	126	50-150		06/21/2022 14:43
13C2 PFDoA	0.98	1.3	134	50-150		06/21/2022 14:43
13C2 PFTeDA	0.98	1.6	168	50-150	R	06/21/2022 14:43
13C3 HFPO-DA	0.98	1.2	120	50-150		06/21/2022 14:43
13C2 PFHxDA	0.98	0.99	102	50-150		06/21/2022 14:43
d3-N-MeFOSA	0.98	0.0037	0	10-150	R	06/21/2022 14:43

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB48-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607026	Percent Moisture	12.8696%
Lab File ID	Q220621A_022	Dry Weight Extracted	4.45g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 17:55	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.18	6.16	11		06/21/2022 14:43
13C4 PFOA	N/A	N/A	7.46	7.44	17		06/21/2022 14:43
13C2 PFDA	N/A	N/A	8.74	8.74	10		06/21/2022 14:43
13C4 PFOS	N/A	N/A	9.15	9.16	10		06/21/2022 14:43

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	20		06/21/2022 14:43
13C5 PFPeA	N/A	N/A	5.54	5.53	14		06/21/2022 14:43
13C3 PFBS	N/A	N/A	6.41	6.39	31		06/21/2022 14:43
13C2 4:2FTS	N/A	N/A	5.92	5.90	49		06/21/2022 14:43
13C5 PFHxA	N/A	N/A	6.18	6.17	10		06/21/2022 14:43
13C4 PFHpA	N/A	N/A	6.82	6.80	15		06/21/2022 14:43
13C3 PFHxS	N/A	N/A	7.82	7.81	11		06/21/2022 14:43
13C2 6:2FTS	N/A	N/A	7.13	7.10	87	R	06/21/2022 14:43
13C8 PFOA	N/A	N/A	7.46	7.43	14		06/21/2022 14:43
13C9 PFNA	N/A	N/A	8.10	8.08	17		06/21/2022 14:43
13C8 PFOS	N/A	N/A	9.03	9.01	11	D	06/23/2022 00:55
13C2 8:2FTS	N/A	N/A	8.38	8.38	80	R	06/21/2022 14:43
13C6 PFDA	N/A	N/A	8.74	8.75	13		06/21/2022 14:43
d3-MeFOSAA	N/A	N/A	8.65	8.65	62		06/21/2022 14:43
13C8 PFOSA	N/A	N/A	11.19	11.18	86	R	06/21/2022 14:43
d5-EtFOSAA	N/A	N/A	8.95	8.95	70		06/21/2022 14:43
13C7 PFUdA	N/A	N/A	9.38	9.40	14		06/21/2022 14:43
13C2 PFDoA	N/A	N/A	10.02	10.05	84		06/21/2022 14:43
13C2 PFTeDA	N/A	N/A	11.26	11.30	97	R	06/21/2022 14:43
13C3 HFPO-DA	N/A	N/A	6.45	6.43	17		06/21/2022 14:43
13C2 PFHxDA	N/A	N/A	12.35	12.39	11		06/21/2022 14:43
d3-N-MeFOSA	N/A	N/A	13.09	13.07	35	R	06/21/2022 14:43

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB48-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607026	Percent Moisture	12.8696%
Lab File ID	Q220621A_022	Dry Weight Extracted	4.45g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 17:55	CCal File	Q220621A_009
Received	05/21/2022 10:00	Ending CCal File	Q220621A_023
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.74	4.77	10		06/21/2022 14:43
PFPeA	N/A	N/A	5.54	5.54	33		06/21/2022 14:43
HFPO-DA	0.00	0.35	0.00	6.44	ND		06/21/2022 14:43
PFBS	0.38	0.31	6.42	6.40	ND		06/21/2022 14:43
PFHxA	0.13	0.08	6.19	6.17	17		06/21/2022 14:43
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/21/2022 14:43
PFPeS	0.41	0.46	7.13	7.12	ND		06/21/2022 14:43
PFHpA	0.42	0.40	6.83	6.81	18		06/21/2022 14:43
DONA	0.00	0.45	0.00	7.04	ND		06/21/2022 14:43
PFHxS	0.33	0.33	7.83	7.82	11		06/21/2022 14:43
PFOA	0.28	0.36	7.47	7.44	36		06/21/2022 14:43
6:2 FTS	1.20	1.30	7.13	7.12	68		06/21/2022 14:43
PFHpS	0.34	0.36	8.51	8.51	21		06/21/2022 14:43
PFNA	0.26	0.29	8.11	8.10	49		06/21/2022 14:43
PFOSAm	N/A	N/A	11.20	11.19	ND		06/21/2022 14:43
PFOS	0.36	0.40	8.92	9.03	22	D	06/23/2022 00:55
MeFOSA	0.00	0.43	0.00	13.09	ND		06/21/2022 14:43
PFDA	0.23	0.21	8.75	8.75	ND		06/21/2022 14:43
8:2 FTS	1.40	1.80	8.38	8.38	74		06/21/2022 14:43
9-Cl-PF3ON	0.00	0.02	0.00	9.66	ND		06/21/2022 14:43
PFNS	0.00	0.18	0.00	9.83	ND		06/21/2022 14:43
PFUnDA	0.30	0.18	9.39	9.40	ND		06/21/2022 14:43
NMeFOSAA	0.00	0.48	0.00	8.66	ND		06/21/2022 14:43
NEtFOSAA	0.00	0.63	0.00	8.96	ND		06/21/2022 14:43
PFDS	0.00	0.26	0.00	10.47	ND		06/21/2022 14:43
PFDOA	0.39	0.24	10.04	10.05	ND		06/21/2022 14:43
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/21/2022 14:43
PFTrDA	0.00	0.19	0.00	10.69	ND		06/21/2022 14:43
PFTDA	0.00	0.14	0.00	11.30	ND		06/21/2022 14:43

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB47-1
 Lab Sample ID 10609607027
 Lab File ID B220622B_040
 Matrix Soil
 Collected 05/19/2022 18:05
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.01g
 Percent Moisture 11.1754%
 Dry Weight Extracted 4.45g
 Ical ID 220621B02
 CCal File B220622B_030
 Ending CCal File B220622B_042
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.48	0.100	0.100	0.024	1	375-22-4		06/22/2022 23:15
PFPeA	3.3	0.100	0.100	0.026	1	2706-90-3		06/22/2022 23:15
HFPO-DA	ND	0.100	0.100	0.030	1	13252-13-6		06/22/2022 23:15
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/22/2022 23:15
PFHxA	2.4	0.100	0.100	0.030	1	307-24-4		06/22/2022 23:15
4:2 FTS	ND	0.093	0.093	0.032	1	757124-72-4		06/22/2022 23:15
PFPeS	ND	0.094	0.094	0.019	1	2706-91-4		06/22/2022 23:15
PFHpA	0.65	0.100	0.100	0.022	1	375-85-9		06/22/2022 23:15
DONA	ND	0.094	0.094	0.038	1	919005-14-4		06/22/2022 23:15
PFHxS	0.19	0.091	0.091	0.022	1	355-46-4		06/22/2022 23:15
PFOA	1.4	0.100	0.100	0.023	1	335-67-1		06/22/2022 23:15
6:2 FTS	26 E	0.095	0.095	0.032	1	27619-97-2		06/22/2022 23:15
PFHpS	ND	0.095	0.095	0.025	1	375-92-8		06/22/2022 23:15
PFNA	0.49	0.100	0.100	0.029	1	375-95-1		06/22/2022 23:15
PFOSAm	ND	0.100	0.100	0.023	1	754-91-6		06/22/2022 23:15
PFOS	1.2	0.092	0.092	0.028	1	1763-23-1		06/22/2022 23:15
MeFOSA	ND	0.100	0.100	0.025	1	31506-32-8		06/22/2022 23:15
PFDA	0.22	0.100	0.100	0.022	1	335-76-2		06/22/2022 23:15
8:2 FTS	1.1	0.096	0.096	0.026	1	39108-34-4		06/22/2022 23:15
9-CI-PF3ON	ND	0.093	0.093	0.014	1	756426-58-1		06/22/2022 23:15
PFNS	ND	0.096	0.096	0.018	1	68259-12-1		06/22/2022 23:15
PFUnDA	ND	0.100	0.100	0.028	1	2058-94-8		06/22/2022 23:15
NMeFOSAA	ND	0.100	0.100	0.023	1	2355-31-9		06/22/2022 23:15
NEtFOSAA	ND	0.100	0.100	0.025	1	2991-50-6		06/22/2022 23:15
PFDS	ND	0.096	0.096	0.025	1	335-77-3		06/22/2022 23:15
PFDOA	ND	0.100	0.100	0.027	1	307-55-1		06/22/2022 23:15
11-CI-PF3OUdS	ND	0.094	0.094	0.016	1	763051-92-9		06/22/2022 23:15
PFTTrDA	ND	0.100	0.100	0.021	1	72629-94-8		06/22/2022 23:15
PFTDA	ND	0.100	0.100	0.032	1	376-06-7		06/22/2022 23:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB47-1	Total Amount Extracted	5.01g
Lab Sample ID	10609607027	Percent Moisture	11.1754%
Lab File ID	B220622B_040	Dry Weight Extracted	4.45g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 18:05	CCal File	B220622B_030
Received	05/21/2022 10:00	Ending CCal File	B220622B_042
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.00	1.0	105	50-150		06/22/2022 23:15
13C4 PFOA	1.00	1.1	107	50-150		06/22/2022 23:15
13C2 PFDA	1.00	1.2	116	50-150		06/22/2022 23:15
13C4 PFOS	0.95	1.0	108	50-150		06/22/2022 23:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.00	0.95	95	50-150		06/22/2022 23:15
13C5 PFPeA	1.00	0.96	97	50-150		06/22/2022 23:15
13C3 PFBS	0.93	0.90	97	50-150		06/22/2022 23:15
13C2 4:2FTS	0.93	0.92	98	50-150		06/22/2022 23:15
13C5 PFHxA	1.00	0.97	97	50-150		06/22/2022 23:15
13C4 PFHpA	1.00	0.92	92	50-150		06/22/2022 23:15
13C3 PFHxS	0.94	0.93	98	50-150		06/22/2022 23:15
13C2 6:2FTS	0.95	0.94	100	50-150		06/22/2022 23:15
13C8 PFOA	1.00	0.98	98	50-150		06/22/2022 23:15
13C9 PFNA	1.00	1.0	103	50-150		06/22/2022 23:15
13C8 PFOS	0.95	0.84	88	50-150		06/22/2022 23:15
13C2 8:2FTS	0.96	0.90	94	50-150		06/22/2022 23:15
13C6 PFDA	1.00	0.98	98	50-150		06/22/2022 23:15
d3-MeFOSAA	1.00	0.95	95	50-150		06/22/2022 23:15
13C8 PFOSA	1.00	0.57	57	50-150		06/22/2022 23:15
d5-EtFOSAA	1.00	0.87	87	50-150		06/22/2022 23:15
13C7 PFUdA	1.00	0.92	92	50-150		06/22/2022 23:15
13C2 PFDoA	1.00	1.00	100	50-150		06/22/2022 23:15
13C2 PFTeDA	1.00	0.90	91	50-150		06/22/2022 23:15
13C3 HFPO-DA	1.00	0.97	97	50-150		06/22/2022 23:15
13C2 PFHxDA	1.00	0.85	85	50-150		06/22/2022 23:15
d3-N-MeFOSA	1.00	0.016	2	10-150	R	06/22/2022 23:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB47-1	Total Amount Extracted	5.01g
Lab Sample ID	10609607027	Percent Moisture	11.1754%
Lab File ID	B220622B_040	Dry Weight Extracted	4.45g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 18:05	CCal File	B220622B_030
Received	05/21/2022 10:00	Ending CCal File	B220622B_042
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.87	5.81	18		06/22/2022 23:15
13C4 PFOA	N/A	N/A	7.20	7.17	31		06/22/2022 23:15
13C2 PFDA	N/A	N/A	8.56	8.54	26		06/22/2022 23:15
13C4 PFOS	N/A	N/A	9.04	9.01	18		06/22/2022 23:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.39	4.38	27		06/22/2022 23:15
13C5 PFPeA	N/A	N/A	5.20	5.16	28		06/22/2022 23:15
13C3 PFBS	N/A	N/A	6.14	6.13	28		06/22/2022 23:15
13C2 4:2FTS	N/A	N/A	5.60	5.52	61		06/22/2022 23:15
13C5 PFHxA	N/A	N/A	5.88	5.84	18		06/22/2022 23:15
13C4 PFHpA	N/A	N/A	6.54	6.49	20		06/22/2022 23:15
13C3 PFHxS	N/A	N/A	7.63	7.59	22		06/22/2022 23:15
13C2 6:2FTS	N/A	N/A	6.85	6.82	12		06/22/2022 23:15
13C8 PFOA	N/A	N/A	7.20	7.17	27		06/22/2022 23:15
13C9 PFNA	N/A	N/A	7.88	7.85	26		06/22/2022 23:15
13C8 PFOS	N/A	N/A	9.04	9.01	15		06/22/2022 23:15
13C2 8:2FTS	N/A	N/A	8.17	8.15	37		06/22/2022 23:15
13C6 PFDA	N/A	N/A	8.56	8.54	18		06/22/2022 23:15
d3-MeFOSAA	N/A	N/A	8.43	8.40	20		06/22/2022 23:15
13C8 PFOSA	N/A	N/A	10.81	10.77	25		06/22/2022 23:15
d5-EtFOSAA	N/A	N/A	8.73	8.71	12		06/22/2022 23:15
13C7 PFUdA	N/A	N/A	9.24	9.22	46		06/22/2022 23:15
13C2 PFDaA	N/A	N/A	9.91	9.90	15		06/22/2022 23:15
13C2 PFTeDA	N/A	N/A	11.23	11.21	21		06/22/2022 23:15
13C3 HFPO-DA	N/A	N/A	6.15	6.13	16		06/22/2022 23:15
13C2 PFHxDA	N/A	N/A	12.38	12.36	33		06/22/2022 23:15
d3-N-MeFOSA	N/A	N/A	12.70	12.66	22	R	06/22/2022 23:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB47-1	Total Amount Extracted	5.01g
Lab Sample ID	10609607027	Percent Moisture	11.1754%
Lab File ID	B220622B_040	Dry Weight Extracted	4.45g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 18:05	CCal File	B220622B_030
Received	05/21/2022 10:00	Ending CCal File	B220622B_042
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.39	4.33	17		06/22/2022 23:15
PFPeA	N/A	N/A	5.20	5.17	14		06/22/2022 23:15
HFPO-DA	0.47	0.29	6.17	6.10	ND		06/22/2022 23:15
PFBS	0.42	0.47	6.15	6.07	ND		06/22/2022 23:15
PFHxA	0.09	0.09	5.88	5.82	69		06/22/2022 23:15
4:2 FTS	0.94	0.92	5.60	5.53	ND		06/22/2022 23:15
PFPeS	0.39	0.49	6.90	6.86	ND		06/22/2022 23:15
PFHpA	0.31	0.32	6.55	6.50	22		06/22/2022 23:15
DONA	0.63	0.63	6.79	6.75	ND		06/22/2022 23:15
PFHxS	0.36	0.37	7.64	7.60	16		06/22/2022 23:15
PFOA	0.37	0.40	7.21	7.18	49		06/22/2022 23:15
6:2 FTS	0.93	0.91	6.86	6.82	10	E	06/22/2022 23:15
PFHpS	0.42	0.39	8.36	8.32	ND		06/22/2022 23:15
PFNA	0.15	0.15	7.89	7.86	10		06/22/2022 23:15
PFOSAm	N/A	N/A	10.82	10.78	ND		06/22/2022 23:15
PFOS	0.38	0.40	9.05	9.03	28		06/22/2022 23:15
MeFOSA	0.00	0.57	0.00	12.69	ND		06/22/2022 23:15
PFDA	0.17	0.18	8.57	8.54	35		06/22/2022 23:15
8:2 FTS	0.91	0.95	8.18	8.15	91		06/22/2022 23:15
9-Cl-PF3ON	0.00	0.07	0.00	9.52	ND		06/22/2022 23:15
PFNS	0.00	0.51	0.00	9.71	ND		06/22/2022 23:15
PFUnDA	0.12	0.15	9.24	9.22	ND		06/22/2022 23:15
NMeFOSAA	0.00	0.85	0.00	8.41	ND		06/22/2022 23:15
NEtFOSAA	0.00	0.64	0.00	8.72	ND		06/22/2022 23:15
PFDS	0.00	0.35	0.00	10.37	ND		06/22/2022 23:15
PFDOA	0.21	0.17	9.92	9.90	ND		06/22/2022 23:15
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/22/2022 23:15
PFTrDA	0.14	0.16	10.60	10.57	ND		06/22/2022 23:15
PFTDA	0.22	0.24	11.23	11.21	ND		06/22/2022 23:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB163-1
 Lab Sample ID 10609607028
 Lab File ID B220622B_043
 Matrix Soil
 Collected 05/19/2022 09:12
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.03g
 Percent Moisture 24.8913%
 Dry Weight Extracted 3.78g
 Ical ID 220621B02
 CCal File B220622B_042
 Ending CCal File B220622B_053
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.099	0.024	1	375-22-4		06/23/2022 00:15
PFPeA	ND	0.099	0.099	0.026	1	2706-90-3		06/23/2022 00:15
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/23/2022 00:15
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/23/2022 00:15
PFHxA	ND	0.099	0.099	0.030	1	307-24-4		06/23/2022 00:15
4:2 FTS	ND	0.093	0.093	0.032	1	757124-72-4		06/23/2022 00:15
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/23/2022 00:15
PFHpA	ND	0.099	0.099	0.022	1	375-85-9		06/23/2022 00:15
DONA	ND	0.094	0.094	0.038	1	919005-14-4		06/23/2022 00:15
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/23/2022 00:15
PFOA	0.10	0.099	0.099	0.022	1	335-67-1		06/23/2022 00:15
6:2 FTS	ND	0.094	0.094	0.032	1	27619-97-2		06/23/2022 00:15
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/23/2022 00:15
PFNA	ND	0.099	0.099	0.028	1	375-95-1		06/23/2022 00:15
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/23/2022 00:15
PFOS	0.093	0.092	0.092	0.028	1	1763-23-1		06/23/2022 00:15
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/23/2022 00:15
PFDA	ND	0.099	0.099	0.022	1	335-76-2		06/23/2022 00:15
8:2 FTS	ND	0.095	0.095	0.026	1	39108-34-4		06/23/2022 00:15
9-CI-PF3ON	ND	0.093	0.093	0.014	1	756426-58-1		06/23/2022 00:15
PFNS	ND	0.095	0.095	0.018	1	68259-12-1		06/23/2022 00:15
PFUnDA	ND	0.099	0.099	0.028	1	2058-94-8		06/23/2022 00:15
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/23/2022 00:15
NEtFOSAA	ND	0.099	0.099	0.025	1	2991-50-6		06/23/2022 00:15
PFDS	ND	0.096	0.096	0.025	1	335-77-3		06/23/2022 00:15
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/23/2022 00:15
11-CI-PF3OUdS	ND	0.094	0.094	0.016	1	763051-92-9		06/23/2022 00:15
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/23/2022 00:15
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/23/2022 00:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB163-1	Total Amount Extracted	5.03g
Lab Sample ID	10609607028	Percent Moisture	24.8913%
Lab File ID	B220622B_043	Dry Weight Extracted	3.78g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:12	CCal File	B220622B_042
Received	05/21/2022 10:00	Ending CCal File	B220622B_053
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	0.98	98	50-150		06/23/2022 00:15
13C4 PFOA	0.99	1.1	111	50-150		06/23/2022 00:15
13C2 PFDA	0.99	1.3	132	50-150		06/23/2022 00:15
13C4 PFOS	0.95	1.1	113	50-150		06/23/2022 00:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.89	89	50-150		06/23/2022 00:15
13C5 PFPeA	0.99	0.92	93	50-150		06/23/2022 00:15
13C3 PFBS	0.92	0.85	93	50-150		06/23/2022 00:15
13C2 4:2FTS	0.93	2.9	310	50-150	R	06/23/2022 00:15
13C5 PFHxA	0.99	0.90	90	50-150		06/23/2022 00:15
13C4 PFHpA	0.99	0.96	96	50-150		06/23/2022 00:15
13C3 PFHxS	0.94	0.94	100	50-150		06/23/2022 00:15
13C2 6:2FTS	0.94	3.3	354	50-150	R	06/23/2022 00:15
13C8 PFOA	0.99	1.0	104	50-150		06/23/2022 00:15
13C9 PFNA	0.99	1.1	111	50-150		06/23/2022 00:15
13C8 PFOS	0.95	1.0	108	50-150		06/23/2022 00:15
13C2 8:2FTS	0.95	3.0	316	50-150	R	06/23/2022 00:15
13C6 PFDA	0.99	1.2	117	50-150		06/23/2022 00:15
d3-MeFOSAA	0.99	1.5	154	50-150	R	06/23/2022 00:15
13C8 PFOSA	0.99	0.97	97	50-150		06/23/2022 00:15
d5-EtFOSAA	0.99	1.5	152	50-150	R	06/23/2022 00:15
13C7 PFUdA	0.99	1.2	120	50-150		06/23/2022 00:15
13C2 PFDaA	0.99	1.2	123	50-150		06/23/2022 00:15
13C2 PFTeDA	0.99	1.2	125	50-150		06/23/2022 00:15
13C3 HFPO-DA	0.99	0.85	86	50-150		06/23/2022 00:15
13C2 PFHxDA	0.99	1.2	125	50-150		06/23/2022 00:15
d3-N-MeFOSA	0.99	0.24	24	10-150		06/23/2022 00:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB163-1	Total Amount Extracted	5.03g
Lab Sample ID	10609607028	Percent Moisture	24.8913%
Lab File ID	B220622B_043	Dry Weight Extracted	3.78g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:12	CCal File	B220622B_042
Received	05/21/2022 10:00	Ending CCal File	B220622B_053
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.81	17		06/23/2022 00:15
13C4 PFOA	N/A	N/A	7.19	7.17	27		06/23/2022 00:15
13C2 PFDA	N/A	N/A	8.55	8.54	30		06/23/2022 00:15
13C4 PFOS	N/A	N/A	9.03	9.01	15		06/23/2022 00:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.37	4.38	28		06/23/2022 00:15
13C5 PFPeA	N/A	N/A	5.17	5.16	23		06/23/2022 00:15
13C3 PFBS	N/A	N/A	6.12	6.13	15		06/23/2022 00:15
13C2 4:2FTS	N/A	N/A	5.58	5.52	53	R	06/23/2022 00:15
13C5 PFHxA	N/A	N/A	5.86	5.84	16		06/23/2022 00:15
13C4 PFHpA	N/A	N/A	6.53	6.49	19		06/23/2022 00:15
13C3 PFHxS	N/A	N/A	7.61	7.59	18		06/23/2022 00:15
13C2 6:2FTS	N/A	N/A	6.85	6.82	96	R	06/23/2022 00:15
13C8 PFOA	N/A	N/A	7.19	7.17	26		06/23/2022 00:15
13C9 PFNA	N/A	N/A	7.87	7.85	23		06/23/2022 00:15
13C8 PFOS	N/A	N/A	9.03	9.01	11		06/23/2022 00:15
13C2 8:2FTS	N/A	N/A	8.16	8.15	85	R	06/23/2022 00:15
13C6 PFDA	N/A	N/A	8.55	8.54	28		06/23/2022 00:15
d3-MeFOSAA	N/A	N/A	8.41	8.40	14	R	06/23/2022 00:15
13C8 PFOSA	N/A	N/A	10.80	10.77	35		06/23/2022 00:15
d5-EtFOSAA	N/A	N/A	8.72	8.71	12	R	06/23/2022 00:15
13C7 PFUdA	N/A	N/A	9.23	9.22	33		06/23/2022 00:15
13C2 PFDoA	N/A	N/A	9.91	9.90	11		06/23/2022 00:15
13C2 PFTeDA	N/A	N/A	11.23	11.21	18		06/23/2022 00:15
13C3 HFPO-DA	N/A	N/A	6.13	6.13	15		06/23/2022 00:15
13C2 PFHxDA	N/A	N/A	12.37	12.36	39		06/23/2022 00:15
d3-N-MeFOSA	N/A	N/A	12.70	12.66	49		06/23/2022 00:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB163-1	Total Amount Extracted	5.03g
Lab Sample ID	10609607028	Percent Moisture	24.8913%
Lab File ID	B220622B_043	Dry Weight Extracted	3.78g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:12	CCal File	B220622B_042
Received	05/21/2022 10:00	Ending CCal File	B220622B_053
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.38	4.33	ND		06/23/2022 00:15
PFPeA	N/A	N/A	5.18	5.17	ND		06/23/2022 00:15
HFPO-DA	5.50	0.29	6.16	6.10	ND		06/23/2022 00:15
PFBS	1.10	0.45	6.13	6.07	ND		06/23/2022 00:15
PFHxA	0.08	0.08	5.87	5.82	ND		06/23/2022 00:15
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/23/2022 00:15
PFPeS	0.37	0.40	6.90	6.86	ND		06/23/2022 00:15
PFHpA	0.28	0.31	6.53	6.50	ND		06/23/2022 00:15
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 00:15
PFHxS	0.38	0.36	7.62	7.60	ND		06/23/2022 00:15
PFOA	0.39	0.38	7.19	7.18	19		06/23/2022 00:15
6:2 FTS	1.00	0.96	6.84	6.82	ND		06/23/2022 00:15
PFHpS	0.00	0.43	0.00	8.32	ND		06/23/2022 00:15
PFNA	0.13	0.14	7.88	7.86	ND		06/23/2022 00:15
PFOSAm	N/A	N/A	10.80	10.78	ND		06/23/2022 00:15
PFOS	0.28	0.40	8.93	9.03	10		06/23/2022 00:15
MeFOSA	0.00	0.53	0.00	12.69	ND		06/23/2022 00:15
PFDA	0.00	0.20	0.00	8.54	ND		06/23/2022 00:15
8:2 FTS	0.00	0.89	0.00	8.15	ND		06/23/2022 00:15
9-Cl-PF3ON	0.00	0.07	0.00	9.52	ND		06/23/2022 00:15
PFNS	0.00	0.44	0.00	9.71	ND		06/23/2022 00:15
PFUnDA	0.05	0.14	9.24	9.22	ND		06/23/2022 00:15
NMeFOSAA	0.00	0.92	0.00	8.41	ND		06/23/2022 00:15
NEtFOSAA	0.00	0.67	0.00	8.72	ND		06/23/2022 00:15
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 00:15
PFDOA	0.12	0.18	9.92	9.90	ND		06/23/2022 00:15
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 00:15
PFTrDA	0.00	0.15	0.00	10.57	ND		06/23/2022 00:15
PFTDA	0.25	0.24	11.23	11.21	ND		06/23/2022 00:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB161-1
 Lab Sample ID 10609607029
 Lab File ID B220622B_044
 Matrix Soil
 Collected 05/19/2022 09:57
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.13g
 Percent Moisture 15.0876%
 Dry Weight Extracted 4.35g
 Ical ID 220621B02
 CCal File B220622B_042
 Ending CCal File B220622B_053
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/23/2022 00:35
PFPeA	ND	0.098	0.098	0.026	1	2706-90-3		06/23/2022 00:35
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/23/2022 00:35
PFBS	ND	0.086	0.086	0.021	1	375-73-5		06/23/2022 00:35
PFHxA	ND	0.098	0.098	0.029	1	307-24-4		06/23/2022 00:35
4:2 FTS	ND	0.091	0.091	0.031	1	757124-72-4		06/23/2022 00:35
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/23/2022 00:35
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/23/2022 00:35
DONA	ND	0.092	0.092	0.037	1	919005-14-4		06/23/2022 00:35
PFHxS	ND	0.089	0.089	0.022	1	355-46-4		06/23/2022 00:35
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/23/2022 00:35
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/23/2022 00:35
PFHpS	ND	0.093	0.093	0.024	1	375-92-8		06/23/2022 00:35
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/23/2022 00:35
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/23/2022 00:35
PFOS	0.13	0.090	0.090	0.027	1	1763-23-1		06/23/2022 00:35
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/23/2022 00:35
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/23/2022 00:35
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/23/2022 00:35
9-CI-PF3ON	ND	0.091	0.091	0.014	1	756426-58-1		06/23/2022 00:35
PFNS	ND	0.094	0.094	0.017	1	68259-12-1		06/23/2022 00:35
PFUnDA	ND	0.098	0.098	0.027	1	2058-94-8		06/23/2022 00:35
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/23/2022 00:35
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/23/2022 00:35
PFDS	ND	0.094	0.094	0.025	1	335-77-3		06/23/2022 00:35
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/23/2022 00:35
11-CI-PF3OUdS	ND	0.092	0.092	0.016	1	763051-92-9		06/23/2022 00:35
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/23/2022 00:35
PFTDA	ND	0.098	0.098	0.031	1	376-06-7		06/23/2022 00:35

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB161-1	Total Amount Extracted	5.13g
Lab Sample ID	10609607029	Percent Moisture	15.0876%
Lab File ID	B220622B_044	Dry Weight Extracted	4.35g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:57	CCal File	B220622B_042
Received	05/21/2022 10:00	Ending CCal File	B220622B_053
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	1.0	107	50-150		06/23/2022 00:35
13C4 PFOA	0.98	1.1	109	50-150		06/23/2022 00:35
13C2 PFDA	0.98	1.3	129	50-150		06/23/2022 00:35
13C4 PFOS	0.93	1.00	107	50-150		06/23/2022 00:35

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.81	83	50-150		06/23/2022 00:35
13C5 PFPeA	0.98	0.84	87	50-150		06/23/2022 00:35
13C3 PFBS	0.91	0.77	85	50-150		06/23/2022 00:35
13C2 4:2FTS	0.91	1.8	196	50-150	R	06/23/2022 00:35
13C5 PFHxA	0.98	0.81	83	50-150		06/23/2022 00:35
13C4 PFHpA	0.98	0.82	84	50-150		06/23/2022 00:35
13C3 PFHxS	0.92	0.81	88	50-150		06/23/2022 00:35
13C2 6:2FTS	0.93	1.3	141	50-150		06/23/2022 00:35
13C8 PFOA	0.98	0.86	88	50-150		06/23/2022 00:35
13C9 PFNA	0.98	0.89	92	50-150		06/23/2022 00:35
13C8 PFOS	0.93	0.83	89	50-150		06/23/2022 00:35
13C2 8:2FTS	0.93	1.3	138	50-150		06/23/2022 00:35
13C6 PFDA	0.98	0.95	98	50-150		06/23/2022 00:35
d3-MeFOSAA	0.98	1.1	114	50-150		06/23/2022 00:35
13C8 PFOSA	0.98	0.64	66	50-150		06/23/2022 00:35
d5-EtFOSAA	0.98	1.0	106	50-150		06/23/2022 00:35
13C7 PFUdA	0.98	0.97	100	50-150		06/23/2022 00:35
13C2 PFDoA	0.98	0.98	101	50-150		06/23/2022 00:35
13C2 PFTeDA	0.98	1.1	109	50-150		06/23/2022 00:35
13C3 HFPO-DA	0.98	0.72	74	50-150		06/23/2022 00:35
13C2 PFHxDA	0.98	0.97	100	50-150		06/23/2022 00:35
d3-N-MeFOSA	0.98	0.064	7	10-150	R	06/23/2022 00:35

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB161-1	Total Amount Extracted	5.13g
Lab Sample ID	10609607029	Percent Moisture	15.0876%
Lab File ID	B220622B_044	Dry Weight Extracted	4.35g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:57	CCal File	B220622B_042
Received	05/21/2022 10:00	Ending CCal File	B220622B_053
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.89	5.81	16		06/23/2022 00:35
13C4 PFOA	N/A	N/A	7.22	7.17	26		06/23/2022 00:35
13C2 PFDA	N/A	N/A	8.56	8.54	30		06/23/2022 00:35
13C4 PFOS	N/A	N/A	9.04	9.01	11		06/23/2022 00:35

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.39	4.38	25		06/23/2022 00:35
13C5 PFPeA	N/A	N/A	5.20	5.16	21		06/23/2022 00:35
13C3 PFBS	N/A	N/A	6.15	6.13	16		06/23/2022 00:35
13C2 4:2FTS	N/A	N/A	5.61	5.52	45	R	06/23/2022 00:35
13C5 PFHxA	N/A	N/A	5.89	5.84	18		06/23/2022 00:35
13C4 PFHpA	N/A	N/A	6.55	6.49	19		06/23/2022 00:35
13C3 PFHxS	N/A	N/A	7.64	7.59	16		06/23/2022 00:35
13C2 6:2FTS	N/A	N/A	6.87	6.82	81		06/23/2022 00:35
13C8 PFOA	N/A	N/A	7.22	7.17	27		06/23/2022 00:35
13C9 PFNA	N/A	N/A	7.89	7.85	21		06/23/2022 00:35
13C8 PFOS	N/A	N/A	9.04	9.01	99		06/23/2022 00:35
13C2 8:2FTS	N/A	N/A	8.18	8.15	85		06/23/2022 00:35
13C6 PFDA	N/A	N/A	8.56	8.54	25		06/23/2022 00:35
d3-MeFOSAA	N/A	N/A	8.43	8.40	12		06/23/2022 00:35
13C8 PFOSA	N/A	N/A	10.81	10.77	24		06/23/2022 00:35
d5-EtFOSAA	N/A	N/A	8.73	8.71	15		06/23/2022 00:35
13C7 PFUdA	N/A	N/A	9.24	9.22	27		06/23/2022 00:35
13C2 PFDoA	N/A	N/A	9.92	9.90	12		06/23/2022 00:35
13C2 PFTeDA	N/A	N/A	11.22	11.21	19		06/23/2022 00:35
13C3 HFPO-DA	N/A	N/A	6.16	6.13	11		06/23/2022 00:35
13C2 PFHxDA	N/A	N/A	12.37	12.36	46		06/23/2022 00:35
d3-N-MeFOSA	N/A	N/A	12.69	12.66	35	R	06/23/2022 00:35

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB161-1	Total Amount Extracted	5.13g
Lab Sample ID	10609607029	Percent Moisture	15.0876%
Lab File ID	B220622B_044	Dry Weight Extracted	4.35g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:57	CCal File	B220622B_042
Received	05/21/2022 10:00	Ending CCal File	B220622B_053
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.40	4.33	ND		06/23/2022 00:35
PFPeA	N/A	N/A	5.21	5.17	ND		06/23/2022 00:35
HFPO-DA	2.40	0.29	6.18	6.10	ND		06/23/2022 00:35
PFBS	2.90	0.45	6.16	6.07	ND		06/23/2022 00:35
PFHxA	0.10	0.08	5.90	5.82	ND		06/23/2022 00:35
4:2 FTS	0.00	0.94	0.00	5.53	ND		06/23/2022 00:35
PFPeS	0.39	0.40	6.92	6.86	ND		06/23/2022 00:35
PFHpA	0.27	0.31	6.56	6.50	ND		06/23/2022 00:35
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 00:35
PFHxS	0.44	0.36	7.65	7.60	ND		06/23/2022 00:35
PFOA	0.41	0.38	7.23	7.18	ND		06/23/2022 00:35
6:2 FTS	0.95	0.96	6.88	6.82	ND		06/23/2022 00:35
PFHpS	0.00	0.43	0.00	8.32	ND		06/23/2022 00:35
PFNA	0.13	0.14	7.90	7.86	ND		06/23/2022 00:35
PFOSAm	N/A	N/A	10.82	10.78	ND		06/23/2022 00:35
PFOS	0.39	0.40	9.05	9.03	24		06/23/2022 00:35
MeFOSA	0.00	0.53	0.00	12.69	ND		06/23/2022 00:35
PFDA	0.19	0.20	8.57	8.54	ND		06/23/2022 00:35
8:2 FTS	0.00	0.89	0.00	8.15	ND		06/23/2022 00:35
9-Cl-PF3ON	0.00	0.07	0.00	9.52	ND		06/23/2022 00:35
PFNS	0.00	0.44	0.00	9.71	ND		06/23/2022 00:35
PFUnDA	0.13	0.14	9.24	9.22	ND		06/23/2022 00:35
NMeFOSAA	0.00	0.92	0.00	8.41	ND		06/23/2022 00:35
NEtFOSAA	0.00	0.67	0.00	8.72	ND		06/23/2022 00:35
PFDS	0.50	0.36	10.40	10.37	ND		06/23/2022 00:35
PFDOA	0.18	0.18	9.91	9.90	ND		06/23/2022 00:35
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 00:35
PFTrDA	0.16	0.15	10.59	10.57	ND		06/23/2022 00:35
PFTDA	0.27	0.24	11.23	11.21	ND		06/23/2022 00:35

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB159-1
 Lab Sample ID 10609607030
 Lab File ID B220622B_054
 Matrix Soil
 Collected 05/19/2022 09:26
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.04g
 Percent Moisture 18.643%
 Dry Weight Extracted 4.10g
 Ical ID 220621B02
 CCal File B220622B_053
 Ending CCal File B220622B_070
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.099	0.024	1	375-22-4		06/23/2022 03:55
PFPeA	ND	0.099	0.099	0.026	1	2706-90-3		06/23/2022 03:55
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/23/2022 03:55
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/23/2022 03:55
PFHxA	ND	0.099	0.099	0.030	1	307-24-4		06/23/2022 03:55
4:2 FTS	ND	0.093	0.093	0.032	1	757124-72-4		06/23/2022 03:55
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/23/2022 03:55
PFHpA	ND	0.099	0.099	0.022	1	375-85-9		06/23/2022 03:55
DONA	ND	0.094	0.094	0.038	1	919005-14-4		06/23/2022 03:55
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/23/2022 03:55
PFOA	ND	0.099	0.099	0.022	1	335-67-1		06/23/2022 03:55
6:2 FTS	ND	0.094	0.094	0.032	1	27619-97-2		06/23/2022 03:55
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/23/2022 03:55
PFNA	ND	0.099	0.099	0.028	1	375-95-1		06/23/2022 03:55
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/23/2022 03:55
PFOS	ND	0.092	0.092	0.028	1	1763-23-1		06/23/2022 03:55
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/23/2022 03:55
PFDA	ND	0.099	0.099	0.022	1	335-76-2		06/23/2022 03:55
8:2 FTS	ND	0.095	0.095	0.026	1	39108-34-4		06/23/2022 03:55
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/23/2022 03:55
PFNS	ND	0.095	0.095	0.018	1	68259-12-1		06/23/2022 03:55
PFUnDA	ND	0.099	0.099	0.028	1	2058-94-8		06/23/2022 03:55
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/23/2022 03:55
NEtFOSAA	ND	0.099	0.099	0.025	1	2991-50-6		06/23/2022 03:55
PFDS	ND	0.096	0.096	0.025	1	335-77-3		06/23/2022 03:55
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/23/2022 03:55
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/23/2022 03:55
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/23/2022 03:55
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/23/2022 03:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB159-1	Total Amount Extracted	5.04g
Lab Sample ID	10609607030	Percent Moisture	18.643%
Lab File ID	B220622B_054	Dry Weight Extracted	4.10g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:26	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	0.88	89	50-150		06/23/2022 03:55
13C4 PFOA	0.99	0.92	93	50-150		06/23/2022 03:55
13C2 PFDA	0.99	0.93	93	50-150		06/23/2022 03:55
13C4 PFOS	0.95	1.0	108	50-150		06/23/2022 03:55

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.79	79	50-150		06/23/2022 03:55
13C5 PFPeA	0.99	0.78	78	50-150		06/23/2022 03:55
13C3 PFBS	0.92	0.87	95	50-150		06/23/2022 03:55
13C2 4:2FTS	0.93	2.7	288	50-150	R	06/23/2022 03:55
13C5 PFHxA	0.99	0.82	83	50-150		06/23/2022 03:55
13C4 PFHpA	0.99	0.88	88	50-150		06/23/2022 03:55
13C3 PFHxS	0.94	0.87	92	50-150		06/23/2022 03:55
13C2 6:2FTS	0.94	3.8	408	50-150	R	06/23/2022 03:55
13C8 PFOA	0.99	0.93	94	50-150		06/23/2022 03:55
13C9 PFNA	0.99	0.97	98	50-150		06/23/2022 03:55
13C8 PFOS	0.95	0.89	94	50-150		06/23/2022 03:55
13C2 8:2FTS	0.95	2.6	272	50-150	R	06/23/2022 03:55
13C6 PFDA	0.99	0.93	94	50-150		06/23/2022 03:55
d3-MeFOSAA	0.99	1.1	113	50-150		06/23/2022 03:55
13C8 PFOSA	0.99	0.70	71	50-150		06/23/2022 03:55
d5-EtFOSAA	0.99	1.1	109	50-150		06/23/2022 03:55
13C7 PFUdA	0.99	0.87	88	50-150		06/23/2022 03:55
13C2 PFDoA	0.99	0.83	84	50-150		06/23/2022 03:55
13C2 PFTeDA	0.99	0.81	81	50-150		06/23/2022 03:55
13C3 HFPO-DA	0.99	0.70	71	50-150		06/23/2022 03:55
13C2 PFHxDA	0.99	0.82	83	50-150		06/23/2022 03:55
d3-N-MeFOSA	0.99	0.21	22	10-150		06/23/2022 03:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB159-1	Total Amount Extracted	5.04g
Lab Sample ID	10609607030	Percent Moisture	18.643%
Lab File ID	B220622B_054	Dry Weight Extracted	4.10g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:26	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.86	5.81	15		06/23/2022 03:55
13C4 PFOA	N/A	N/A	7.20	7.17	21		06/23/2022 03:55
13C2 PFDA	N/A	N/A	8.54	8.54	15		06/23/2022 03:55
13C4 PFOS	N/A	N/A	9.02	9.01	89		06/23/2022 03:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.38	4.38	24		06/23/2022 03:55
13C5 PFPeA	N/A	N/A	5.18	5.16	18		06/23/2022 03:55
13C3 PFBS	N/A	N/A	6.12	6.13	98		06/23/2022 03:55
13C2 4:2FTS	N/A	N/A	5.58	5.52	64	R	06/23/2022 03:55
13C5 PFHxA	N/A	N/A	5.86	5.84	14		06/23/2022 03:55
13C4 PFHpA	N/A	N/A	6.53	6.49	15		06/23/2022 03:55
13C3 PFHxS	N/A	N/A	7.62	7.59	12		06/23/2022 03:55
13C2 6:2FTS	N/A	N/A	6.85	6.82	61	R	06/23/2022 03:55
13C8 PFOA	N/A	N/A	7.20	7.17	24		06/23/2022 03:55
13C9 PFNA	N/A	N/A	7.87	7.85	18		06/23/2022 03:55
13C8 PFOS	N/A	N/A	9.02	9.01	60		06/23/2022 03:55
13C2 8:2FTS	N/A	N/A	8.16	8.15	52	R	06/23/2022 03:55
13C6 PFDA	N/A	N/A	8.54	8.54	19		06/23/2022 03:55
d3-MeFOSAA	N/A	N/A	8.41	8.40	13		06/23/2022 03:55
13C8 PFOSA	N/A	N/A	10.80	10.77	29		06/23/2022 03:55
d5-EtFOSAA	N/A	N/A	8.71	8.71	96		06/23/2022 03:55
13C7 PFUdA	N/A	N/A	9.21	9.22	15		06/23/2022 03:55
13C2 PFDoA	N/A	N/A	9.89	9.90	56		06/23/2022 03:55
13C2 PFTeDA	N/A	N/A	11.21	11.21	14		06/23/2022 03:55
13C3 HFPO-DA	N/A	N/A	6.14	6.13	12		06/23/2022 03:55
13C2 PFHxDA	N/A	N/A	12.37	12.36	27		06/23/2022 03:55
d3-N-MeFOSA	N/A	N/A	12.70	12.66	36		06/23/2022 03:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB159-1	Total Amount Extracted	5.04g
Lab Sample ID	10609607030	Percent Moisture	18.643%
Lab File ID	B220622B_054	Dry Weight Extracted	4.10g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:26	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.38	4.33	ND		06/23/2022 03:55
PFPeA	N/A	N/A	5.18	5.17	ND		06/23/2022 03:55
HFPO-DA	0.26	0.28	6.16	6.10	ND		06/23/2022 03:55
PFBS	0.47	0.43	6.13	6.07	ND		06/23/2022 03:55
PFHxA	0.06	0.09	5.87	5.82	ND		06/23/2022 03:55
4:2 FTS	0.00	1.00	0.00	5.53	ND		06/23/2022 03:55
PFPeS	0.35	0.42	6.91	6.86	ND		06/23/2022 03:55
PFHpA	0.32	0.32	6.54	6.50	ND		06/23/2022 03:55
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 03:55
PFHxS	2.40	0.37	7.63	7.60	ND		06/23/2022 03:55
PFOA	0.32	0.37	7.20	7.18	ND		06/23/2022 03:55
6:2 FTS	0.98	0.93	6.86	6.82	ND		06/23/2022 03:55
PFHpS	0.00	0.39	8.22	8.32	ND		06/23/2022 03:55
PFNA	0.11	0.14	7.88	7.86	ND		06/23/2022 03:55
PFOSAm	N/A	N/A	10.81	10.78	ND		06/23/2022 03:55
PFOS	0.41	0.41	9.03	9.03	ND		06/23/2022 03:55
MeFOSA	0.00	0.48	0.00	12.69	ND		06/23/2022 03:55
PFDA	0.00	0.18	0.00	8.54	ND		06/23/2022 03:55
8:2 FTS	1.20	0.92	8.16	8.15	ND		06/23/2022 03:55
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 03:55
PFNS	0.00	0.50	0.00	9.71	ND		06/23/2022 03:55
PFUnDA	0.13	0.13	9.22	9.22	ND		06/23/2022 03:55
NMeFOSAA	0.00	0.78	0.00	8.41	ND		06/23/2022 03:55
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/23/2022 03:55
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 03:55
PFDOA	0.19	0.17	9.90	9.90	ND		06/23/2022 03:55
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 03:55
PFTrDA	0.19	0.14	10.57	10.57	ND		06/23/2022 03:55
PFTDA	0.22	0.23	11.21	11.21	ND		06/23/2022 03:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB160-1	Total Amount Extracted	5.10g
Lab Sample ID	10609607031	Percent Moisture	34.6151%
Lab File ID	B220622B_055	Dry Weight Extracted	3.33g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:47	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/23/2022 04:15
PFPeA	ND	0.098	0.098	0.026	1	2706-90-3		06/23/2022 04:15
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/23/2022 04:15
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/23/2022 04:15
PFHxA	ND	0.098	0.098	0.029	1	307-24-4		06/23/2022 04:15
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/23/2022 04:15
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/23/2022 04:15
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/23/2022 04:15
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/23/2022 04:15
PFHxS	ND	0.089	0.089	0.022	1	355-46-4		06/23/2022 04:15
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/23/2022 04:15
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/23/2022 04:15
PFHpS	ND	0.093	0.093	0.025	1	375-92-8		06/23/2022 04:15
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/23/2022 04:15
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/23/2022 04:15
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/23/2022 04:15
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/23/2022 04:15
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/23/2022 04:15
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/23/2022 04:15
9-CI-PF3ON	ND	0.091	0.091	0.014	1	756426-58-1		06/23/2022 04:15
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/23/2022 04:15
PFUnDA	ND	0.098	0.098	0.028	1	2058-94-8		06/23/2022 04:15
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/23/2022 04:15
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/23/2022 04:15
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/23/2022 04:15
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/23/2022 04:15
11-CI-PF3OUdS	ND	0.092	0.092	0.016	1	763051-92-9		06/23/2022 04:15
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/23/2022 04:15
PFTDA	ND	0.098	0.098	0.031	1	376-06-7		06/23/2022 04:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB160-1	Total Amount Extracted	5.10g
Lab Sample ID	10609607031	Percent Moisture	34.6151%
Lab File ID	B220622B_055	Dry Weight Extracted	3.33g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:47	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.53	54	50-150		06/23/2022 04:15
13C4 PFOA	0.98	0.51	52	50-150		06/23/2022 04:15
13C2 PFDA	0.98	0.52	53	50-150		06/23/2022 04:15
13C4 PFOS	0.94	0.91	97	50-150		06/23/2022 04:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.42	43	50-150	R	06/23/2022 04:15
13C5 PFPeA	0.98	0.40	41	50-150	R	06/23/2022 04:15
13C3 PFBS	0.91	0.67	74	50-150		06/23/2022 04:15
13C2 4:2FTS	0.92	1.6	171	50-150	R	06/23/2022 04:15
13C5 PFHxA	0.98	0.45	46	50-150	R	06/23/2022 04:15
13C4 PFHpA	0.98	0.50	51	50-150		06/23/2022 04:15
13C3 PFHxS	0.93	0.65	70	50-150		06/23/2022 04:15
13C2 6:2FTS	0.93	2.6	279	50-150	R	06/23/2022 04:15
13C8 PFOA	0.98	0.52	53	50-150		06/23/2022 04:15
13C9 PFNA	0.98	0.52	53	50-150		06/23/2022 04:15
13C8 PFOS	0.94	0.73	78	50-150		06/23/2022 04:15
13C2 8:2FTS	0.94	1.7	181	50-150	R	06/23/2022 04:15
13C6 PFDA	0.98	0.50	51	50-150		06/23/2022 04:15
d3-MeFOSAA	0.98	0.53	54	50-150		06/23/2022 04:15
13C8 PFOSA	0.98	0.37	38	50-150	R	06/23/2022 04:15
d5-EtFOSAA	0.98	0.54	55	50-150		06/23/2022 04:15
13C7 PFUdA	0.98	0.47	48	50-150	R	06/23/2022 04:15
13C2 PFDoA	0.98	0.46	46	50-150	R	06/23/2022 04:15
13C2 PFTeDA	0.98	0.43	44	50-150	R	06/23/2022 04:15
13C3 HFPO-DA	0.98	0.45	46	50-150	R	06/23/2022 04:15
13C2 PFHxDA	0.98	0.45	46	50-150	R	06/23/2022 04:15
d3-N-MeFOSA	0.98	0.24	24	10-150		06/23/2022 04:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB160-1	Total Amount Extracted	5.10g
Lab Sample ID	10609607031	Percent Moisture	34.6151%
Lab File ID	B220622B_055	Dry Weight Extracted	3.33g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:47	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.84	5.81	13		06/23/2022 04:15
13C4 PFOA	N/A	N/A	7.17	7.17	10		06/23/2022 04:15
13C2 PFDA	N/A	N/A	8.52	8.54	94		06/23/2022 04:15
13C4 PFOS	N/A	N/A	9.01	9.01	28		06/23/2022 04:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.37	4.38	20	R	06/23/2022 04:15
13C5 PFPeA	N/A	N/A	5.17	5.16	17	R	06/23/2022 04:15
13C3 PFBS	N/A	N/A	6.10	6.13	59		06/23/2022 04:15
13C2 4:2FTS	N/A	N/A	5.56	5.52	37	R	06/23/2022 04:15
13C5 PFHxA	N/A	N/A	5.84	5.84	10	R	06/23/2022 04:15
13C4 PFHpA	N/A	N/A	6.51	6.49	89		06/23/2022 04:15
13C3 PFHxS	N/A	N/A	7.59	7.59	58		06/23/2022 04:15
13C2 6:2FTS	N/A	N/A	6.82	6.82	29	R	06/23/2022 04:15
13C8 PFOA	N/A	N/A	7.17	7.17	10		06/23/2022 04:15
13C9 PFNA	N/A	N/A	7.83	7.85	68		06/23/2022 04:15
13C8 PFOS	N/A	N/A	9.01	9.01	24		06/23/2022 04:15
13C2 8:2FTS	N/A	N/A	8.13	8.15	23	R	06/23/2022 04:15
13C6 PFDA	N/A	N/A	8.52	8.54	87		06/23/2022 04:15
d3-MeFOSAA	N/A	N/A	8.39	8.40	72		06/23/2022 04:15
13C8 PFOSA	N/A	N/A	10.81	10.77	17	R	06/23/2022 04:15
d5-EtFOSAA	N/A	N/A	8.70	8.71	63		06/23/2022 04:15
13C7 PFUdA	N/A	N/A	9.20	9.22	54	R	06/23/2022 04:15
13C2 PFDoA	N/A	N/A	9.88	9.90	32	R	06/23/2022 04:15
13C2 PFTeDA	N/A	N/A	11.19	11.21	91	R	06/23/2022 04:15
13C3 HFPO-DA	N/A	N/A	6.11	6.13	98	R	06/23/2022 04:15
13C2 PFHxDA	N/A	N/A	12.35	12.36	82	R	06/23/2022 04:15
d3-N-MeFOSA	N/A	N/A	12.70	12.66	26		06/23/2022 04:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB160-1	Total Amount Extracted	5.10g
Lab Sample ID	10609607031	Percent Moisture	34.6151%
Lab File ID	B220622B_055	Dry Weight Extracted	3.33g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 09:47	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.37	4.33	ND		06/23/2022 04:15
PFPeA	N/A	N/A	5.18	5.17	ND		06/23/2022 04:15
HFPO-DA	0.27	0.28	6.13	6.10	ND		06/23/2022 04:15
PFBS	0.88	0.43	6.11	6.07	ND		06/23/2022 04:15
PFHxA	0.06	0.09	5.85	5.82	ND		06/23/2022 04:15
4:2 FTS	0.00	1.00	0.00	5.53	ND		06/23/2022 04:15
PFPeS	0.14	0.42	6.85	6.86	ND		06/23/2022 04:15
PFHpA	0.27	0.32	6.51	6.50	ND		06/23/2022 04:15
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 04:15
PFHxS	2.20	0.37	7.59	7.60	ND		06/23/2022 04:15
PFOA	0.30	0.37	7.17	7.18	ND		06/23/2022 04:15
6:2 FTS	0.84	0.93	6.82	6.82	ND		06/23/2022 04:15
PFHpS	0.00	0.39	0.00	8.32	ND		06/23/2022 04:15
PFNA	0.11	0.14	7.84	7.86	ND		06/23/2022 04:15
PFOSAm	N/A	N/A	10.76	10.78	ND		06/23/2022 04:15
PFOS	0.38	0.41	9.02	9.03	ND		06/23/2022 04:15
MeFOSA	0.00	0.48	0.00	12.69	ND		06/23/2022 04:15
PFDA	0.13	0.18	8.54	8.54	ND		06/23/2022 04:15
8:2 FTS	0.00	0.92	0.00	8.15	ND		06/23/2022 04:15
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 04:15
PFNS	0.00	0.50	0.00	9.71	ND		06/23/2022 04:15
PFUnDA	0.08	0.13	9.21	9.22	ND		06/23/2022 04:15
NMeFOSAA	0.00	0.78	0.00	8.41	ND		06/23/2022 04:15
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/23/2022 04:15
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 04:15
PFDOA	0.00	0.17	0.00	9.90	ND		06/23/2022 04:15
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 04:15
PFTrDA	0.46	0.14	10.55	10.57	ND		06/23/2022 04:15
PFTDA	0.21	0.23	11.19	11.21	ND		06/23/2022 04:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB156-3	Total Amount Extracted	5.19g
Lab Sample ID	10609607032	Percent Moisture	22.465%
Lab File ID	B220622B_056	Dry Weight Extracted	4.03g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:43	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.096	0.096	0.023	1	375-22-4		06/23/2022 04:35
PFPeA	ND	0.096	0.096	0.025	1	2706-90-3		06/23/2022 04:35
HFPO-DA	ND	0.096	0.096	0.029	1	13252-13-6		06/23/2022 04:35
PFBS	ND	0.085	0.085	0.021	1	375-73-5		06/23/2022 04:35
PFHxA	ND	0.096	0.096	0.029	1	307-24-4		06/23/2022 04:35
4:2 FTS	ND	0.090	0.090	0.031	1	757124-72-4		06/23/2022 04:35
PFPeS	ND	0.091	0.091	0.018	1	2706-91-4		06/23/2022 04:35
PFHpA	ND	0.096	0.096	0.022	1	375-85-9		06/23/2022 04:35
DONA	ND	0.091	0.091	0.037	1	919005-14-4		06/23/2022 04:35
PFHxS	ND	0.088	0.088	0.021	1	355-46-4		06/23/2022 04:35
PFOA	0.15	0.096	0.096	0.022	1	335-67-1		06/23/2022 04:35
6:2 FTS	ND	0.091	0.091	0.031	1	27619-97-2		06/23/2022 04:35
PFHpS	ND	0.091	0.091	0.024	1	375-92-8		06/23/2022 04:35
PFNA	ND	0.096	0.096	0.028	1	375-95-1		06/23/2022 04:35
PFOSAm	ND	0.096	0.096	0.023	1	754-91-6		06/23/2022 04:35
PFOS	0.21	0.089	0.089	0.027	1	1763-23-1		06/23/2022 04:35
MeFOSA	ND	0.096	0.096	0.024	1	31506-32-8		06/23/2022 04:35
PFDA	ND	0.096	0.096	0.021	1	335-76-2		06/23/2022 04:35
8:2 FTS	ND	0.092	0.092	0.025	1	39108-34-4		06/23/2022 04:35
9-CI-PF3ON	ND	0.090	0.090	0.014	1	756426-58-1		06/23/2022 04:35
PFNS	ND	0.092	0.092	0.017	1	68259-12-1		06/23/2022 04:35
PFUnDA	ND	0.096	0.096	0.027	1	2058-94-8		06/23/2022 04:35
NMeFOSAA	ND	0.096	0.096	0.022	1	2355-31-9		06/23/2022 04:35
NEtFOSAA	ND	0.096	0.096	0.024	1	2991-50-6		06/23/2022 04:35
PFDS	ND	0.093	0.093	0.024	1	335-77-3		06/23/2022 04:35
PFDOA	ND	0.096	0.096	0.026	1	307-55-1		06/23/2022 04:35
11-CI-PF3OUdS	ND	0.091	0.091	0.016	1	763051-92-9		06/23/2022 04:35
PFTTrDA	ND	0.096	0.096	0.021	1	72629-94-8		06/23/2022 04:35
PFTDA	ND	0.096	0.096	0.031	1	376-06-7		06/23/2022 04:35

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB156-3	Total Amount Extracted	5.19g
Lab Sample ID	10609607032	Percent Moisture	22.465%
Lab File ID	B220622B_056	Dry Weight Extracted	4.03g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:43	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.96	0.77	80	50-150		06/23/2022 04:35
13C4 PFOA	0.96	0.97	101	50-150		06/23/2022 04:35
13C2 PFDA	0.96	0.80	83	50-150		06/23/2022 04:35
13C4 PFOS	0.92	0.97	106	50-150		06/23/2022 04:35

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.96	0.59	61	50-150		06/23/2022 04:35
13C5 PFPeA	0.96	0.60	63	50-150		06/23/2022 04:35
13C3 PFBS	0.89	0.78	88	50-150		06/23/2022 04:35
13C2 4:2FTS	0.90	2.3	253	50-150	R	06/23/2022 04:35
13C5 PFHxA	0.96	0.71	74	50-150		06/23/2022 04:35
13C4 PFHpA	0.96	0.79	82	50-150		06/23/2022 04:35
13C3 PFHxS	0.91	0.80	88	50-150		06/23/2022 04:35
13C2 6:2FTS	0.91	3.5	378	50-150	R	06/23/2022 04:35
13C8 PFOA	0.96	0.96	100	50-150		06/23/2022 04:35
13C9 PFNA	0.96	0.91	95	50-150		06/23/2022 04:35
13C8 PFOS	0.92	0.82	89	50-150		06/23/2022 04:35
13C2 8:2FTS	0.92	2.3	249	50-150	R	06/23/2022 04:35
13C6 PFDA	0.96	0.77	80	50-150		06/23/2022 04:35
d3-MeFOSAA	0.96	0.95	99	50-150		06/23/2022 04:35
13C8 PFOSA	0.96	0.60	63	50-150		06/23/2022 04:35
d5-EtFOSAA	0.96	0.87	91	50-150		06/23/2022 04:35
13C7 PFUdA	0.96	0.74	77	50-150		06/23/2022 04:35
13C2 PFDaA	0.96	0.69	72	50-150		06/23/2022 04:35
13C2 PFTeDA	0.96	0.55	57	50-150		06/23/2022 04:35
13C3 HFPO-DA	0.96	0.67	69	50-150		06/23/2022 04:35
13C2 PFHxDA	0.96	0.29	30	50-150	R	06/23/2022 04:35
d3-N-MeFOSA	0.96	0.26	27	10-150		06/23/2022 04:35

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB156-3	Total Amount Extracted	5.19g
Lab Sample ID	10609607032	Percent Moisture	22.465%
Lab File ID	B220622B_056	Dry Weight Extracted	4.03g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:43	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.81	11		06/23/2022 04:35
13C4 PFOA	N/A	N/A	7.20	7.17	17		06/23/2022 04:35
13C2 PFDA	N/A	N/A	8.54	8.54	11		06/23/2022 04:35
13C4 PFOS	N/A	N/A	9.02	9.01	58		06/23/2022 04:35

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.36	4.38	18		06/23/2022 04:35
13C5 PFPeA	N/A	N/A	5.17	5.16	14		06/23/2022 04:35
13C3 PFBS	N/A	N/A	6.11	6.13	73		06/23/2022 04:35
13C2 4:2FTS	N/A	N/A	5.57	5.52	26	R	06/23/2022 04:35
13C5 PFHxA	N/A	N/A	5.85	5.84	11		06/23/2022 04:35
13C4 PFHpA	N/A	N/A	6.53	6.49	15		06/23/2022 04:35
13C3 PFHxS	N/A	N/A	7.62	7.59	82		06/23/2022 04:35
13C2 6:2FTS	N/A	N/A	6.85	6.82	55	R	06/23/2022 04:35
13C8 PFOA	N/A	N/A	7.20	7.17	17		06/23/2022 04:35
13C9 PFNA	N/A	N/A	7.87	7.85	13		06/23/2022 04:35
13C8 PFOS	N/A	N/A	9.02	9.01	49		06/23/2022 04:35
13C2 8:2FTS	N/A	N/A	8.16	8.15	47	R	06/23/2022 04:35
13C6 PFDA	N/A	N/A	8.54	8.54	11		06/23/2022 04:35
d3-MeFOSAA	N/A	N/A	8.41	8.40	77		06/23/2022 04:35
13C8 PFOSA	N/A	N/A	10.80	10.77	26		06/23/2022 04:35
d5-EtFOSAA	N/A	N/A	8.71	8.71	11		06/23/2022 04:35
13C7 PFUdA	N/A	N/A	9.22	9.22	10		06/23/2022 04:35
13C2 PFDoA	N/A	N/A	9.90	9.90	58		06/23/2022 04:35
13C2 PFTeDA	N/A	N/A	11.20	11.21	12		06/23/2022 04:35
13C3 HFPO-DA	N/A	N/A	6.13	6.13	10		06/23/2022 04:35
13C2 PFHxDA	N/A	N/A	12.36	12.36	12	R	06/23/2022 04:35
d3-N-MeFOSA	N/A	N/A	12.70	12.66	50		06/23/2022 04:35

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB156-3	Total Amount Extracted	5.19g
Lab Sample ID	10609607032	Percent Moisture	22.465%
Lab File ID	B220622B_056	Dry Weight Extracted	4.03g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:43	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.36	4.33	ND		06/23/2022 04:35
PFPeA	N/A	N/A	5.18	5.17	ND		06/23/2022 04:35
HFPO-DA	0.13	0.28	6.14	6.10	ND		06/23/2022 04:35
PFBS	0.52	0.43	6.11	6.07	ND		06/23/2022 04:35
PFHxA	0.07	0.09	5.86	5.82	ND		06/23/2022 04:35
4:2 FTS	0.00	1.00	0.00	5.53	ND		06/23/2022 04:35
PFPeS	0.30	0.42	6.89	6.86	ND		06/23/2022 04:35
PFHpA	0.32	0.32	6.53	6.50	ND		06/23/2022 04:35
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 04:35
PFHxS	1.50	0.37	7.63	7.60	ND		06/23/2022 04:35
PFOA	0.38	0.37	7.21	7.18	91		06/23/2022 04:35
6:2 FTS	0.91	0.93	6.85	6.82	ND		06/23/2022 04:35
PFHpS	0.31	0.39	8.34	8.32	ND		06/23/2022 04:35
PFNA	0.12	0.14	7.88	7.86	ND		06/23/2022 04:35
PFOSAm	N/A	N/A	10.81	10.78	ND		06/23/2022 04:35
PFOS	0.32	0.41	9.03	9.03	17		06/23/2022 04:35
MeFOSA	0.00	0.48	0.00	12.69	ND		06/23/2022 04:35
PFDA	0.10	0.18	8.55	8.54	ND		06/23/2022 04:35
8:2 FTS	2.20	0.92	8.15	8.15	ND		06/23/2022 04:35
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 04:35
PFNS	0.00	0.50	0.00	9.71	ND		06/23/2022 04:35
PFUnDA	0.11	0.13	9.22	9.22	ND		06/23/2022 04:35
NMeFOSAA	0.00	0.78	0.00	8.41	ND		06/23/2022 04:35
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/23/2022 04:35
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 04:35
PFDOA	0.43	0.17	9.90	9.90	ND		06/23/2022 04:35
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 04:35
PFTrDA	0.00	0.14	0.00	10.57	ND		06/23/2022 04:35
PFTDA	0.28	0.23	11.21	11.21	ND		06/23/2022 04:35

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB162-1
 Lab Sample ID 10609607033
 Lab File ID B220622B_057
 Matrix Soil
 Collected 05/19/2022 10:08
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.06g
 Percent Moisture 22.6719%
 Dry Weight Extracted 3.91g
 Ical ID 220621B02
 CCal File B220622B_053
 Ending CCal File B220622B_070
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.29	0.099	0.099	0.023	1	375-22-4		06/23/2022 04:55
PFPeA	0.22	0.099	0.099	0.026	1	2706-90-3		06/23/2022 04:55
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/23/2022 04:55
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/23/2022 04:55
PFHxA	0.17	0.099	0.099	0.030	1	307-24-4		06/23/2022 04:55
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/23/2022 04:55
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/23/2022 04:55
PFHpA	0.19	0.099	0.099	0.022	1	375-85-9		06/23/2022 04:55
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/23/2022 04:55
PFHxS	0.48	0.090	0.090	0.022	1	355-46-4		06/23/2022 04:55
PFOA	0.15	0.099	0.099	0.022	1	335-67-1		06/23/2022 04:55
6:2 FTS	ND	0.094	0.094	0.032	1	27619-97-2		06/23/2022 04:55
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/23/2022 04:55
PFNA	0.10	0.099	0.099	0.028	1	375-95-1		06/23/2022 04:55
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/23/2022 04:55
PFOS	0.29	0.091	0.091	0.027	1	1763-23-1		06/23/2022 04:55
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/23/2022 04:55
PFDA	ND	0.099	0.099	0.021	1	335-76-2		06/23/2022 04:55
8:2 FTS	ND	0.095	0.095	0.026	1	39108-34-4		06/23/2022 04:55
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/23/2022 04:55
PFNS	0.16 I	0.095	0.095	0.018	1	68259-12-1		06/23/2022 04:55
PFUnDA	ND	0.099	0.099	0.028	1	2058-94-8		06/23/2022 04:55
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/23/2022 04:55
NEtFOSAA	ND	0.099	0.099	0.024	1	2991-50-6		06/23/2022 04:55
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/23/2022 04:55
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/23/2022 04:55
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/23/2022 04:55
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/23/2022 04:55
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/23/2022 04:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB162-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607033	Percent Moisture	22.6719%
Lab File ID	B220622B_057	Dry Weight Extracted	3.91g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:08	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	0.91	92	50-150		06/23/2022 04:55
13C4 PFOA	0.99	0.98	99	50-150		06/23/2022 04:55
13C2 PFDA	0.99	1.0	102	50-150		06/23/2022 04:55
13C4 PFOS	0.95	1.1	115	50-150		06/23/2022 04:55

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.76	77	50-150		06/23/2022 04:55
13C5 PFPeA	0.99	0.78	79	50-150		06/23/2022 04:55
13C3 PFBS	0.92	0.93	102	50-150		06/23/2022 04:55
13C2 4:2FTS	0.92	2.7	293	50-150	R	06/23/2022 04:55
13C5 PFHxA	0.99	0.84	85	50-150		06/23/2022 04:55
13C4 PFHpA	0.99	0.95	96	50-150		06/23/2022 04:55
13C3 PFHxS	0.94	0.97	104	50-150		06/23/2022 04:55
13C2 6:2FTS	0.94	4.0	425	50-150	R	06/23/2022 04:55
13C8 PFOA	0.99	1.0	102	50-150		06/23/2022 04:55
13C9 PFNA	0.99	1.0	105	50-150		06/23/2022 04:55
13C8 PFOS	0.95	1.00	105	50-150		06/23/2022 04:55
13C2 8:2FTS	0.95	2.6	278	50-150	R	06/23/2022 04:55
13C6 PFDA	0.99	1.0	103	50-150		06/23/2022 04:55
d3-MeFOSAA	0.99	1.2	120	50-150		06/23/2022 04:55
13C8 PFOSA	0.99	0.69	70	50-150		06/23/2022 04:55
d5-EtFOSAA	0.99	1.2	125	50-150		06/23/2022 04:55
13C7 PFUdA	0.99	0.94	95	50-150		06/23/2022 04:55
13C2 PFDoA	0.99	0.92	93	50-150		06/23/2022 04:55
13C2 PFTeDA	0.99	0.86	87	50-150		06/23/2022 04:55
13C3 HFPO-DA	0.99	0.78	79	50-150		06/23/2022 04:55
13C2 PFHxDA	0.99	0.97	98	50-150		06/23/2022 04:55
d3-N-MeFOSA	0.99	0.040	4	10-150	R	06/23/2022 04:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB162-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607033	Percent Moisture	22.6719%
Lab File ID	B220622B_057	Dry Weight Extracted	3.91g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:08	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.84	5.81	16		06/23/2022 04:55
13C4 PFOA	N/A	N/A	7.18	7.17	19		06/23/2022 04:55
13C2 PFDA	N/A	N/A	8.54	8.54	18		06/23/2022 04:55
13C4 PFOS	N/A	N/A	9.02	9.01	75		06/23/2022 04:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.36	4.38	26		06/23/2022 04:55
13C5 PFPeA	N/A	N/A	5.17	5.16	20		06/23/2022 04:55
13C3 PFBS	N/A	N/A	6.10	6.13	77		06/23/2022 04:55
13C2 4:2FTS	N/A	N/A	5.56	5.52	47	R	06/23/2022 04:55
13C5 PFHxA	N/A	N/A	5.84	5.84	11		06/23/2022 04:55
13C4 PFHpA	N/A	N/A	6.51	6.49	15		06/23/2022 04:55
13C3 PFHxS	N/A	N/A	7.60	7.59	10		06/23/2022 04:55
13C2 6:2FTS	N/A	N/A	6.83	6.82	57	R	06/23/2022 04:55
13C8 PFOA	N/A	N/A	7.18	7.17	18		06/23/2022 04:55
13C9 PFNA	N/A	N/A	7.85	7.85	16		06/23/2022 04:55
13C8 PFOS	N/A	N/A	9.03	9.01	53		06/23/2022 04:55
13C2 8:2FTS	N/A	N/A	8.14	8.15	47	R	06/23/2022 04:55
13C6 PFDA	N/A	N/A	8.54	8.54	14		06/23/2022 04:55
d3-MeFOSAA	N/A	N/A	8.40	8.40	12		06/23/2022 04:55
13C8 PFOSA	N/A	N/A	10.81	10.77	23		06/23/2022 04:55
d5-EtFOSAA	N/A	N/A	8.71	8.71	11		06/23/2022 04:55
13C7 PFUdA	N/A	N/A	9.22	9.22	15		06/23/2022 04:55
13C2 PFDoA	N/A	N/A	9.90	9.90	70		06/23/2022 04:55
13C2 PFTeDA	N/A	N/A	11.22	11.21	17		06/23/2022 04:55
13C3 HFPO-DA	N/A	N/A	6.12	6.13	11		06/23/2022 04:55
13C2 PFHxDA	N/A	N/A	12.37	12.36	26		06/23/2022 04:55
d3-N-MeFOSA	N/A	N/A	12.70	12.66	14	R	06/23/2022 04:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB162-1	Total Amount Extracted	5.06g
Lab Sample ID	10609607033	Percent Moisture	22.6719%
Lab File ID	B220622B_057	Dry Weight Extracted	3.91g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:08	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.36	4.33	11		06/23/2022 04:55
PFPeA	N/A	N/A	5.17	5.17	13		06/23/2022 04:55
HFPO-DA	0.28	0.28	6.13	6.10	ND		06/23/2022 04:55
PFBS	0.41	0.43	6.11	6.07	ND		06/23/2022 04:55
PFHxA	0.07	0.09	5.85	5.82	14		06/23/2022 04:55
4:2 FTS	0.00	1.00	0.00	5.53	ND		06/23/2022 04:55
PFPeS	0.37	0.42	6.88	6.86	ND		06/23/2022 04:55
PFHpA	0.31	0.32	6.52	6.50	26		06/23/2022 04:55
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 04:55
PFHxS	0.41	0.37	7.61	7.60	62		06/23/2022 04:55
PFOA	0.37	0.37	7.18	7.18	15		06/23/2022 04:55
6:2 FTS	0.94	0.93	6.83	6.82	ND		06/23/2022 04:55
PFHpS	0.33	0.39	8.33	8.32	ND		06/23/2022 04:55
PFNA	0.13	0.14	7.86	7.86	20		06/23/2022 04:55
PFOSAm	N/A	N/A	10.81	10.78	ND		06/23/2022 04:55
PFOS	0.27	0.41	8.81	9.03	81		06/23/2022 04:55
MeFOSA	0.00	0.48	0.00	12.69	ND		06/23/2022 04:55
PFDA	0.14	0.18	8.54	8.54	ND		06/23/2022 04:55
8:2 FTS	0.00	0.92	0.00	8.15	ND		06/23/2022 04:55
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 04:55
PFNS	0.00	0.50	9.68	9.71	22	I	06/23/2022 04:55
PFUnDA	0.09	0.13	9.22	9.22	ND		06/23/2022 04:55
NMeFOSAA	0.59	0.78	8.39	8.41	ND		06/23/2022 04:55
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/23/2022 04:55
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 04:55
PFDOA	0.21	0.17	9.91	9.90	ND		06/23/2022 04:55
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 04:55
PFTrDA	0.23	0.14	10.58	10.57	ND		06/23/2022 04:55
PFTDA	0.17	0.23	11.23	11.21	ND		06/23/2022 04:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB158-1
 Lab Sample ID 10609607034
 Lab File ID B220627B_007
 Matrix Soil
 Collected 05/19/2022 10:35
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.08g
 Percent Moisture 41.2257%
 Dry Weight Extracted 2.99g
 Ical ID 220621B02
 CCal File B220627B_001
 Ending CCal File B220627B_009
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/27/2022 18:45
PFPeA	ND	0.098	0.098	0.026	1	2706-90-3		06/27/2022 18:45
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/27/2022 18:45
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/27/2022 18:45
PFHxA	ND	0.098	0.098	0.030	1	307-24-4		06/27/2022 18:45
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/27/2022 18:45
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/27/2022 18:45
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/27/2022 18:45
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/27/2022 18:45
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/27/2022 18:45
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/27/2022 18:45
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/27/2022 18:45
PFHpS	ND	0.093	0.093	0.025	1	375-92-8		06/27/2022 18:45
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/27/2022 18:45
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/27/2022 18:45
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/27/2022 18:45
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/27/2022 18:45
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/27/2022 18:45
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/27/2022 18:45
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/27/2022 18:45
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/27/2022 18:45
PFUnDA	ND	0.098	0.098	0.028	1	2058-94-8		06/27/2022 18:45
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/27/2022 18:45
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/27/2022 18:45
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/27/2022 18:45
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/27/2022 18:45
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/27/2022 18:45
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/27/2022 18:45
PFTDA	ND	0.098	0.098	0.032	1	376-06-7		06/27/2022 18:45

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB158-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607034	Percent Moisture	41.2257%
Lab File ID	B220627B_007	Dry Weight Extracted	2.99g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:35	CCal File	B220627B_001
Received	05/21/2022 10:00	Ending CCal File	B220627B_009
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.48	49	50-150	R	06/27/2022 18:45
13C4 PFOA	0.98	0.50	51	50-150		06/27/2022 18:45
13C2 PFDA	0.98	0.51	52	50-150		06/27/2022 18:45
13C4 PFOS	0.94	0.79	84	50-150		06/27/2022 18:45

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.40	41	50-150	R	06/27/2022 18:45
13C5 PFPeA	0.98	0.41	42	50-150	R	06/27/2022 18:45
13C3 PFBS	0.91	0.70	77	50-150		06/27/2022 18:45
13C2 4:2FTS	0.92	2.1	225	50-150	R	06/27/2022 18:45
13C5 PFHxA	0.98	0.42	42	50-150	R	06/27/2022 18:45
13C4 PFHpA	0.98	0.49	50	50-150		06/27/2022 18:45
13C3 PFHxS	0.93	0.70	75	50-150		06/27/2022 18:45
13C2 6:2FTS	0.93	2.9	315	50-150	R	06/27/2022 18:45
13C8 PFOA	0.98	0.52	52	50-150		06/27/2022 18:45
13C9 PFNA	0.98	0.53	54	50-150		06/27/2022 18:45
13C8 PFOS	0.94	0.76	81	50-150		06/27/2022 18:45
13C2 8:2FTS	0.94	2.7	288	50-150	R	06/27/2022 18:45
13C6 PFDA	0.98	0.54	55	50-150		06/27/2022 18:45
d3-MeFOSAA	0.98	0.67	68	50-150		06/27/2022 18:45
13C8 PFOSA	0.98	0.44	45	50-150	R	06/27/2022 18:45
d5-EtFOSAA	0.98	0.71	72	50-150		06/27/2022 18:45
13C7 PFUdA	0.98	0.54	55	50-150		06/27/2022 18:45
13C2 PFDoA	0.98	0.48	49	50-150	R	06/27/2022 18:45
13C2 PFTeDA	0.98	0.42	43	50-150	R	06/27/2022 18:45
13C3 HFPO-DA	0.98	0.41	42	50-150	R	06/27/2022 18:45
13C2 PFHxDA	0.98	0.33	34	50-150	R	06/27/2022 18:45
d3-N-MeFOSA	0.98	0.17	18	10-150		06/27/2022 18:45

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB158-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607034	Percent Moisture	41.2257%
Lab File ID	B220627B_007	Dry Weight Extracted	2.99g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:35	CCal File	B220627B_001
Received	05/21/2022 10:00	Ending CCal File	B220627B_009
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.78	5.81	10	R	06/27/2022 18:45
13C4 PFOA	N/A	N/A	7.15	7.17	13		06/27/2022 18:45
13C2 PFDA	N/A	N/A	8.53	8.54	84		06/27/2022 18:45
13C4 PFOS	N/A	N/A	9.01	9.01	45		06/27/2022 18:45

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.30	4.32	16	R	06/27/2022 18:45
13C5 PFPeA	N/A	N/A	5.10	5.12	11	R	06/27/2022 18:45
13C3 PFBS	N/A	N/A	6.04	6.06	64		06/27/2022 18:45
13C2 4:2FTS	N/A	N/A	5.50	5.52	22	R	06/27/2022 18:45
13C5 PFHxA	N/A	N/A	5.78	5.81	86	R	06/27/2022 18:45
13C4 PFHpA	N/A	N/A	6.47	6.49	10		06/27/2022 18:45
13C3 PFHxS	N/A	N/A	7.58	7.59	64		06/27/2022 18:45
13C2 6:2FTS	N/A	N/A	6.80	6.82	34	R	06/27/2022 18:45
13C8 PFOA	N/A	N/A	7.15	7.17	11		06/27/2022 18:45
13C9 PFNA	N/A	N/A	7.84	7.85	68		06/27/2022 18:45
13C8 PFOS	N/A	N/A	9.02	9.01	34		06/27/2022 18:45
13C2 8:2FTS	N/A	N/A	8.14	8.15	31	R	06/27/2022 18:45
13C6 PFDA	N/A	N/A	8.53	8.54	76		06/27/2022 18:45
d3-MeFOSAA	N/A	N/A	8.40	8.40	72		06/27/2022 18:45
13C8 PFOSA	N/A	N/A	10.82	10.77	13	R	06/27/2022 18:45
d5-EtFOSAA	N/A	N/A	8.71	8.71	82		06/27/2022 18:45
13C7 PFUdA	N/A	N/A	9.22	9.22	58		06/27/2022 18:45
13C2 PFDaA	N/A	N/A	9.90	9.90	32	R	06/27/2022 18:45
13C2 PFTeDA	N/A	N/A	11.23	11.21	75	R	06/27/2022 18:45
13C3 HFPO-DA	N/A	N/A	6.06	6.09	83	R	06/27/2022 18:45
13C2 PFHxDA	N/A	N/A	12.38	12.36	49	R	06/27/2022 18:45
d3-N-MeFOSA	N/A	N/A	12.72	12.66	22		06/27/2022 18:45

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB158-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607034	Percent Moisture	41.2257%
Lab File ID	B220627B_007	Dry Weight Extracted	2.99g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:35	CCal File	B220627B_001
Received	05/21/2022 10:00	Ending CCal File	B220627B_009
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.44	4.33	ND		06/27/2022 18:45
PFPeA	N/A	N/A	5.13	5.12	ND		06/27/2022 18:45
HFPO-DA	0.00	0.29	0.00	6.10	ND		06/27/2022 18:45
PFBS	0.38	0.40	6.05	6.07	ND		06/27/2022 18:45
PFHxA	0.03	0.08	5.76	5.82	ND		06/27/2022 18:45
4:2 FTS	0.00	0.78	0.00	5.53	ND		06/27/2022 18:45
PFPeS	0.24	0.45	6.86	6.86	ND		06/27/2022 18:45
PFHpA	0.00	0.34	0.00	6.50	ND		06/27/2022 18:45
DONA	0.00	0.57	0.00	6.75	ND		06/27/2022 18:45
PFHxS	1.40	0.36	7.59	7.60	ND		06/27/2022 18:45
PFOA	0.10	0.38	7.10	7.18	ND		06/27/2022 18:45
6:2 FTS	0.94	0.81	6.80	6.87	ND		06/27/2022 18:45
PFHpS	0.04	0.40	8.21	8.32	ND		06/27/2022 18:45
PFNA	0.02	0.13	7.80	7.86	ND		06/27/2022 18:45
PFOSAm	N/A	N/A	0.00	10.78	ND		06/27/2022 18:45
PFOS	0.34	0.38	9.02	9.03	ND		06/27/2022 18:45
MeFOSA	0.00	0.58	0.00	12.69	ND		06/27/2022 18:45
PFDA	0.20	0.18	8.54	8.54	ND		06/27/2022 18:45
8:2 FTS	3.10	0.79	8.15	8.15	ND		06/27/2022 18:45
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/27/2022 18:45
PFNS	0.00	0.49	0.00	9.71	ND		06/27/2022 18:45
PFUnDA	0.00	0.14	0.00	9.22	ND		06/27/2022 18:45
NMeFOSAA	0.00	0.74	0.00	8.41	ND		06/27/2022 18:45
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/27/2022 18:45
PFDS	0.21	0.35	10.41	10.37	ND		06/27/2022 18:45
PFDOA	0.00	0.17	0.00	9.90	ND		06/27/2022 18:45
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/27/2022 18:45
PFTrDA	0.00	0.15	0.00	10.57	ND		06/27/2022 18:45
PFTDA	0.00	0.25	0.00	11.21	ND		06/27/2022 18:45

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB156-1
 Lab Sample ID 10609607035
 Lab File ID B220622B_058
 Matrix Soil
 Collected 05/19/2022 10:38
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.02g
 Percent Moisture 24.3282%
 Dry Weight Extracted 3.80g
 Ical ID 220621B02
 CCal File B220622B_053
 Ending CCal File B220622B_070
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	0.10	0.100	0.100	0.024	1	375-22-4		06/23/2022 05:15
PFPeA	ND	0.100	0.100	0.026	1	2706-90-3		06/23/2022 05:15
HFPO-DA	ND	0.100	0.100	0.030	1	13252-13-6		06/23/2022 05:15
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/23/2022 05:15
PFHxA	ND	0.100	0.100	0.030	1	307-24-4		06/23/2022 05:15
4:2 FTS	ND	0.093	0.093	0.032	1	757124-72-4		06/23/2022 05:15
PFPeS	ND	0.094	0.094	0.019	1	2706-91-4		06/23/2022 05:15
PFHpA	ND	0.100	0.100	0.022	1	375-85-9		06/23/2022 05:15
DONA	ND	0.094	0.094	0.038	1	919005-14-4		06/23/2022 05:15
PFHxS	ND	0.091	0.091	0.022	1	355-46-4		06/23/2022 05:15
PFOA	0.17	0.100	0.100	0.023	1	335-67-1		06/23/2022 05:15
6:2 FTS	ND	0.095	0.095	0.032	1	27619-97-2		06/23/2022 05:15
PFHpS	ND	0.095	0.095	0.025	1	375-92-8		06/23/2022 05:15
PFNA	ND	0.100	0.100	0.029	1	375-95-1		06/23/2022 05:15
PFOSAm	ND	0.100	0.100	0.023	1	754-91-6		06/23/2022 05:15
PFOS	0.21	0.092	0.092	0.028	1	1763-23-1		06/23/2022 05:15
MeFOSA	ND	0.100	0.100	0.025	1	31506-32-8		06/23/2022 05:15
PFDA	ND	0.100	0.100	0.022	1	335-76-2		06/23/2022 05:15
8:2 FTS	ND	0.096	0.096	0.026	1	39108-34-4		06/23/2022 05:15
9-CI-PF3ON	ND	0.093	0.093	0.014	1	756426-58-1		06/23/2022 05:15
PFNS	ND	0.096	0.096	0.018	1	68259-12-1		06/23/2022 05:15
PFUnDA	ND	0.100	0.100	0.028	1	2058-94-8		06/23/2022 05:15
NMeFOSAA	ND	0.100	0.100	0.023	1	2355-31-9		06/23/2022 05:15
NEtFOSAA	ND	0.100	0.100	0.025	1	2991-50-6		06/23/2022 05:15
PFDS	ND	0.096	0.096	0.025	1	335-77-3		06/23/2022 05:15
PFDOA	ND	0.100	0.100	0.027	1	307-55-1		06/23/2022 05:15
11-CI-PF3OUdS	ND	0.094	0.094	0.016	1	763051-92-9		06/23/2022 05:15
PFTTrDA	ND	0.100	0.100	0.021	1	72629-94-8		06/23/2022 05:15
PFTDA	ND	0.100	0.100	0.032	1	376-06-7		06/23/2022 05:15

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB156-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607035	Percent Moisture	24.3282%
Lab File ID	B220622B_058	Dry Weight Extracted	3.80g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:38	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.00	0.76	76	50-150		06/23/2022 05:15
13C4 PFOA	1.00	0.80	80	50-150		06/23/2022 05:15
13C2 PFDA	1.00	0.74	74	50-150		06/23/2022 05:15
13C4 PFOS	0.95	0.99	103	50-150		06/23/2022 05:15

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.00	0.55	55	50-150		06/23/2022 05:15
13C5 PFPeA	1.00	0.60	60	50-150		06/23/2022 05:15
13C3 PFBS	0.93	0.75	81	50-150		06/23/2022 05:15
13C2 4:2FTS	0.93	2.0	217	50-150	R	06/23/2022 05:15
13C5 PFHxA	1.00	0.66	66	50-150		06/23/2022 05:15
13C4 PFHpA	1.00	0.74	74	50-150		06/23/2022 05:15
13C3 PFHxS	0.94	0.79	83	50-150		06/23/2022 05:15
13C2 6:2FTS	0.95	3.4	358	50-150	R	06/23/2022 05:15
13C8 PFOA	1.00	0.77	77	50-150		06/23/2022 05:15
13C9 PFNA	1.00	0.63	63	50-150		06/23/2022 05:15
13C8 PFOS	0.95	0.81	85	50-150		06/23/2022 05:15
13C2 8:2FTS	0.95	2.1	216	50-150	R	06/23/2022 05:15
13C6 PFDA	1.00	0.73	73	50-150		06/23/2022 05:15
d3-MeFOSAA	1.00	0.89	89	50-150		06/23/2022 05:15
13C8 PFOSA	1.00	0.61	62	50-150		06/23/2022 05:15
d5-EtFOSAA	1.00	0.93	93	50-150		06/23/2022 05:15
13C7 PFUdA	1.00	0.74	74	50-150		06/23/2022 05:15
13C2 PFDoA	1.00	0.70	71	50-150		06/23/2022 05:15
13C2 PFTeDA	1.00	0.60	60	50-150		06/23/2022 05:15
13C3 HFPO-DA	1.00	0.60	61	50-150		06/23/2022 05:15
13C2 PFHxDA	1.00	0.64	64	50-150		06/23/2022 05:15
d3-N-MeFOSA	1.00	0.35	35	10-150		06/23/2022 05:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB156-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607035	Percent Moisture	24.3282%
Lab File ID	B220622B_058	Dry Weight Extracted	3.80g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:38	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.85	5.81	15		06/23/2022 05:15
13C4 PFOA	N/A	N/A	7.17	7.17	16		06/23/2022 05:15
13C2 PFDA	N/A	N/A	8.53	8.54	16		06/23/2022 05:15
13C4 PFOS	N/A	N/A	9.02	9.01	60		06/23/2022 05:15

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.35	4.38	18		06/23/2022 05:15
13C5 PFPeA	N/A	N/A	5.17	5.16	17		06/23/2022 05:15
13C3 PFBS	N/A	N/A	6.11	6.13	86		06/23/2022 05:15
13C2 4:2FTS	N/A	N/A	5.57	5.52	28	R	06/23/2022 05:15
13C5 PFHxA	N/A	N/A	5.85	5.84	11		06/23/2022 05:15
13C4 PFHpA	N/A	N/A	6.51	6.49	13		06/23/2022 05:15
13C3 PFHxS	N/A	N/A	7.59	7.59	82		06/23/2022 05:15
13C2 6:2FTS	N/A	N/A	6.83	6.82	51	R	06/23/2022 05:15
13C8 PFOA	N/A	N/A	7.17	7.17	14		06/23/2022 05:15
13C9 PFNA	N/A	N/A	7.84	7.85	10		06/23/2022 05:15
13C8 PFOS	N/A	N/A	9.02	9.01	54		06/23/2022 05:15
13C2 8:2FTS	N/A	N/A	8.14	8.15	38	R	06/23/2022 05:15
13C6 PFDA	N/A	N/A	8.53	8.54	14		06/23/2022 05:15
d3-MeFOSAA	N/A	N/A	8.40	8.40	82		06/23/2022 05:15
13C8 PFOSA	N/A	N/A	10.80	10.77	30		06/23/2022 05:15
d5-EtFOSAA	N/A	N/A	8.71	8.71	96		06/23/2022 05:15
13C7 PFUdA	N/A	N/A	9.22	9.22	11		06/23/2022 05:15
13C2 PFDoA	N/A	N/A	9.90	9.90	70		06/23/2022 05:15
13C2 PFTeDA	N/A	N/A	11.21	11.21	15		06/23/2022 05:15
13C3 HFPO-DA	N/A	N/A	6.12	6.13	10		06/23/2022 05:15
13C2 PFHxDA	N/A	N/A	12.36	12.36	20		06/23/2022 05:15
d3-N-MeFOSA	N/A	N/A	12.70	12.66	40		06/23/2022 05:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB156-1	Total Amount Extracted	5.02g
Lab Sample ID	10609607035	Percent Moisture	24.3282%
Lab File ID	B220622B_058	Dry Weight Extracted	3.80g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 10:38	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.36	4.33	57		06/23/2022 05:15
PFPeA	N/A	N/A	5.18	5.17	ND		06/23/2022 05:15
HFPO-DA	0.00	0.28	0.00	6.10	ND		06/23/2022 05:15
PFBS	0.58	0.43	6.11	6.07	ND		06/23/2022 05:15
PFHxA	0.07	0.09	5.86	5.82	ND		06/23/2022 05:15
4:2 FTS	0.00	1.00	0.00	5.53	ND		06/23/2022 05:15
PFPeS	0.33	0.42	6.86	6.86	ND		06/23/2022 05:15
PFHpA	0.34	0.32	6.52	6.50	ND		06/23/2022 05:15
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 05:15
PFHxS	2.20	0.37	7.60	7.60	ND		06/23/2022 05:15
PFOA	0.36	0.37	7.18	7.18	73		06/23/2022 05:15
6:2 FTS	0.91	0.93	6.82	6.82	ND		06/23/2022 05:15
PFHpS	0.38	0.39	8.34	8.32	ND		06/23/2022 05:15
PFNA	0.08	0.14	7.85	7.86	ND		06/23/2022 05:15
PFOSAm	N/A	N/A	10.82	10.78	ND		06/23/2022 05:15
PFOS	0.36	0.41	9.03	9.03	16		06/23/2022 05:15
MeFOSA	0.00	0.48	0.00	12.69	ND		06/23/2022 05:15
PFDA	0.21	0.18	8.54	8.54	ND		06/23/2022 05:15
8:2 FTS	0.00	0.92	0.00	8.15	ND		06/23/2022 05:15
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 05:15
PFNS	0.00	0.50	0.00	9.71	ND		06/23/2022 05:15
PFUnDA	0.09	0.13	9.22	9.22	ND		06/23/2022 05:15
NMeFOSAA	0.00	0.78	0.00	8.41	ND		06/23/2022 05:15
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/23/2022 05:15
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 05:15
PFDOA	0.33	0.17	9.91	9.90	ND		06/23/2022 05:15
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 05:15
PFTrDA	0.18	0.14	10.57	10.57	ND		06/23/2022 05:15
PFTDA	0.26	0.23	11.22	11.21	ND		06/23/2022 05:15

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB154-1
 Lab Sample ID 10609607036
 Lab File ID B220622B_063
 Matrix Soil
 Collected 05/19/2022 11:05
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.12g
 Percent Moisture 38.3031%
 Dry Weight Extracted 3.16g
 Ical ID 220621B02
 CCal File B220622B_053
 Ending CCal File B220622B_070
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/23/2022 06:55
PFPeA	0.22	0.098	0.098	0.026	1	2706-90-3		06/23/2022 06:55
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/23/2022 06:55
PFBS	ND	0.086	0.086	0.021	1	375-73-5		06/23/2022 06:55
PFHxA	0.20	0.098	0.098	0.029	1	307-24-4		06/23/2022 06:55
4:2 FTS	ND	0.091	0.091	0.031	1	757124-72-4		06/23/2022 06:55
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/23/2022 06:55
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/23/2022 06:55
DONA	ND	0.092	0.092	0.038	1	919005-14-4		06/23/2022 06:55
PFHxS	0.32	0.089	0.089	0.022	1	355-46-4		06/23/2022 06:55
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/23/2022 06:55
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/23/2022 06:55
PFHpS	ND	0.093	0.093	0.024	1	375-92-8		06/23/2022 06:55
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/23/2022 06:55
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/23/2022 06:55
PFOS	0.11	0.090	0.090	0.027	1	1763-23-1		06/23/2022 06:55
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/23/2022 06:55
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/23/2022 06:55
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/23/2022 06:55
9-CI-PF3ON	ND	0.091	0.091	0.014	1	756426-58-1		06/23/2022 06:55
PFNS	ND	0.094	0.094	0.017	1	68259-12-1		06/23/2022 06:55
PFUnDA	ND	0.098	0.098	0.027	1	2058-94-8		06/23/2022 06:55
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/23/2022 06:55
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/23/2022 06:55
PFDS	ND	0.094	0.094	0.025	1	335-77-3		06/23/2022 06:55
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/23/2022 06:55
11-CI-PF3OUdS	ND	0.092	0.092	0.016	1	763051-92-9		06/23/2022 06:55
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/23/2022 06:55
PFTDA	ND	0.098	0.098	0.031	1	376-06-7		06/23/2022 06:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB154-1	Total Amount Extracted	5.12g
Lab Sample ID	10609607036	Percent Moisture	38.3031%
Lab File ID	B220622B_063	Dry Weight Extracted	3.16g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 11:05	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.51	52	50-150		06/23/2022 06:55
13C4 PFOA	0.98	0.54	55	50-150		06/23/2022 06:55
13C2 PFDA	0.98	0.51	52	50-150		06/23/2022 06:55
13C4 PFOS	0.93	0.88	94	50-150		06/23/2022 06:55

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.37	38	50-150	R	06/23/2022 06:55
13C5 PFPeA	0.98	0.37	38	50-150	R	06/23/2022 06:55
13C3 PFBS	0.91	0.63	69	50-150		06/23/2022 06:55
13C2 4:2FTS	0.91	1.4	154	50-150	R	06/23/2022 06:55
13C5 PFHxA	0.98	0.42	43	50-150	R	06/23/2022 06:55
13C4 PFHpA	0.98	0.48	50	50-150		06/23/2022 06:55
13C3 PFHxS	0.92	0.61	66	50-150		06/23/2022 06:55
13C2 6:2FTS	0.93	2.7	293	50-150	R	06/23/2022 06:55
13C8 PFOA	0.98	0.50	51	50-150		06/23/2022 06:55
13C9 PFNA	0.98	0.50	51	50-150		06/23/2022 06:55
13C8 PFOS	0.93	0.67	72	50-150		06/23/2022 06:55
13C2 8:2FTS	0.94	1.6	166	50-150	R	06/23/2022 06:55
13C6 PFDA	0.98	0.47	48	50-150	R	06/23/2022 06:55
d3-MeFOSAA	0.98	0.56	57	50-150		06/23/2022 06:55
13C8 PFOSA	0.98	0.37	38	50-150	R	06/23/2022 06:55
d5-EtFOSAA	0.98	0.55	56	50-150		06/23/2022 06:55
13C7 PFUdA	0.98	0.44	45	50-150	R	06/23/2022 06:55
13C2 PFDoA	0.98	0.44	45	50-150	R	06/23/2022 06:55
13C2 PFTeDA	0.98	0.44	45	50-150	R	06/23/2022 06:55
13C3 HFPO-DA	0.98	0.39	40	50-150	R	06/23/2022 06:55
13C2 PFHxDA	0.98	0.44	45	50-150	R	06/23/2022 06:55
d3-N-MeFOSA	0.98	0.21	22	10-150		06/23/2022 06:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB154-1	Total Amount Extracted	5.12g
Lab Sample ID	10609607036	Percent Moisture	38.3031%
Lab File ID	B220622B_063	Dry Weight Extracted	3.16g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 11:05	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.82	5.81	10		06/23/2022 06:55
13C4 PFOA	N/A	N/A	7.17	7.17	11		06/23/2022 06:55
13C2 PFDA	N/A	N/A	8.52	8.54	10		06/23/2022 06:55
13C4 PFOS	N/A	N/A	9.00	9.01	42		06/23/2022 06:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.34	4.38	17	R	06/23/2022 06:55
13C5 PFPeA	N/A	N/A	5.14	5.16	13	R	06/23/2022 06:55
13C3 PFBS	N/A	N/A	6.08	6.13	57		06/23/2022 06:55
13C2 4:2FTS	N/A	N/A	5.54	5.52	33	R	06/23/2022 06:55
13C5 PFHxA	N/A	N/A	5.82	5.84	89	R	06/23/2022 06:55
13C4 PFHpA	N/A	N/A	6.49	6.49	92		06/23/2022 06:55
13C3 PFHxS	N/A	N/A	7.59	7.59	70		06/23/2022 06:55
13C2 6:2FTS	N/A	N/A	6.82	6.82	40	R	06/23/2022 06:55
13C8 PFOA	N/A	N/A	7.17	7.17	11		06/23/2022 06:55
13C9 PFNA	N/A	N/A	7.84	7.85	71		06/23/2022 06:55
13C8 PFOS	N/A	N/A	9.00	9.01	34		06/23/2022 06:55
13C2 8:2FTS	N/A	N/A	8.14	8.15	27	R	06/23/2022 06:55
13C6 PFDA	N/A	N/A	8.52	8.54	85	R	06/23/2022 06:55
d3-MeFOSAA	N/A	N/A	8.39	8.40	60		06/23/2022 06:55
13C8 PFOSA	N/A	N/A	10.80	10.77	19	R	06/23/2022 06:55
d5-EtFOSAA	N/A	N/A	8.69	8.71	73		06/23/2022 06:55
13C7 PFUdA	N/A	N/A	9.20	9.22	78	R	06/23/2022 06:55
13C2 PFDoA	N/A	N/A	9.88	9.90	44	R	06/23/2022 06:55
13C2 PFTeDA	N/A	N/A	11.18	11.21	85	R	06/23/2022 06:55
13C3 HFPO-DA	N/A	N/A	6.09	6.13	99	R	06/23/2022 06:55
13C2 PFHxDA	N/A	N/A	12.33	12.36	86	R	06/23/2022 06:55
d3-N-MeFOSA	N/A	N/A	12.69	12.66	19		06/23/2022 06:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB154-1	Total Amount Extracted	5.12g
Lab Sample ID	10609607036	Percent Moisture	38.3031%
Lab File ID	B220622B_063	Dry Weight Extracted	3.16g
Matrix	Soil	Ical ID	220621B02
Collected	05/19/2022 11:05	CCal File	B220622B_053
Received	05/21/2022 10:00	Ending CCal File	B220622B_070
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.34	4.33	ND		06/23/2022 06:55
PFPeA	N/A	N/A	5.15	5.17	58		06/23/2022 06:55
HFPO-DA	0.00	0.28	0.00	6.10	ND		06/23/2022 06:55
PFBS	0.44	0.43	6.08	6.07	ND		06/23/2022 06:55
PFHxA	0.06	0.09	5.83	5.82	64		06/23/2022 06:55
4:2 FTS	0.00	1.00	0.00	5.53	ND		06/23/2022 06:55
PFPeS	0.40	0.42	6.86	6.86	ND		06/23/2022 06:55
PFHpA	0.43	0.32	6.50	6.50	ND		06/23/2022 06:55
DONA	0.00	0.61	0.00	6.75	ND		06/23/2022 06:55
PFHxS	0.29	0.37	7.59	7.60	26		06/23/2022 06:55
PFOA	0.25	0.37	7.17	7.18	ND		06/23/2022 06:55
6:2 FTS	0.85	0.93	6.83	6.82	ND		06/23/2022 06:55
PFHpS	0.00	0.39	0.00	8.19	ND		06/23/2022 06:55
PFNA	0.07	0.14	7.83	7.86	ND		06/23/2022 06:55
PFOSAm	N/A	N/A	10.82	10.78	ND		06/23/2022 06:55
PFOS	0.36	0.41	8.96	9.03	59		06/23/2022 06:55
MeFOSA	0.00	0.48	0.00	12.69	ND		06/23/2022 06:55
PFDA	0.00	0.18	0.00	8.54	ND		06/23/2022 06:55
8:2 FTS	4.40	0.92	8.15	8.15	ND		06/23/2022 06:55
9-Cl-PF3ON	0.00	0.06	0.00	9.52	ND		06/23/2022 06:55
PFNS	0.00	0.50	0.00	9.66	ND		06/23/2022 06:55
PFUnDA	0.00	0.13	0.00	9.22	ND		06/23/2022 06:55
NMeFOSAA	0.00	0.78	0.00	8.41	ND		06/23/2022 06:55
NEtFOSAA	0.00	0.60	0.00	8.72	ND		06/23/2022 06:55
PFDS	0.00	0.36	0.00	10.37	ND		06/23/2022 06:55
PFDOA	0.91	0.17	9.86	9.90	ND		06/23/2022 06:55
11-Cl-PF3OUdS	0.00	0.02	0.00	10.85	ND		06/23/2022 06:55
PFTrDA	0.00	0.14	0.00	10.57	ND		06/23/2022 06:55
PFTDA	0.19	0.23	11.19	11.21	ND		06/23/2022 06:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB155-1
 Lab Sample ID 10609607037
 Lab File ID Q220622A_006
 Matrix Soil
 Collected 05/19/2022 11:13
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.11g
 Percent Moisture 39.1079%
 Dry Weight Extracted 3.11g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/22/2022 09:55
PFPeA	ND	0.098	0.098	0.026	1	2706-90-3		06/22/2022 09:55
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/22/2022 09:55
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/22/2022 09:55
PFHxA	ND	0.098	0.098	0.029	1	307-24-4		06/22/2022 09:55
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/22/2022 09:55
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/22/2022 09:55
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/22/2022 09:55
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/22/2022 09:55
PFHxS	ND	0.089	0.089	0.022	1	355-46-4		06/22/2022 09:55
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/22/2022 09:55
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/22/2022 09:55
PFHpS	ND	0.093	0.093	0.024	1	375-92-8		06/22/2022 09:55
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/22/2022 09:55
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/22/2022 09:55
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/22/2022 09:55
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/22/2022 09:55
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/22/2022 09:55
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/22/2022 09:55
9-CI-PF3ON	ND	0.091	0.091	0.014	1	756426-58-1		06/22/2022 09:55
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/22/2022 09:55
PFUnDA	ND	0.098	0.098	0.028	1	2058-94-8		06/22/2022 09:55
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/22/2022 09:55
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/22/2022 09:55
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/22/2022 09:55
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/22/2022 09:55
11-CI-PF3OUdS	ND	0.092	0.092	0.016	1	763051-92-9		06/22/2022 09:55
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/22/2022 09:55
PFTDA	ND	0.098	0.098	0.031	1	376-06-7		06/22/2022 09:55

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB155-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607037	Percent Moisture	39.1079%
Lab File ID	Q220622A_006	Dry Weight Extracted	3.11g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 11:13	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.63	65	50-150		06/22/2022 09:55
13C4 PFOA	0.98	0.51	52	50-150		06/22/2022 09:55
13C2 PFDA	0.98	0.70	72	50-150		06/22/2022 09:55
13C4 PFOS	0.94	0.86	92	50-150		06/22/2022 09:55

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.58	59	50-150		06/22/2022 09:55
13C5 PFPeA	0.98	0.56	57	50-150		06/22/2022 09:55
13C3 PFBS	0.91	0.64	70	50-150		06/22/2022 09:55
13C2 4:2FTS	0.92	1.7	186	50-150	R	06/22/2022 09:55
13C5 PFHxA	0.98	0.49	50	50-150		06/22/2022 09:55
13C4 PFHpA	0.98	0.49	50	50-150		06/22/2022 09:55
13C3 PFHxS	0.93	0.62	67	50-150		06/22/2022 09:55
13C2 6:2FTS	0.93	2.6	285	50-150	R	06/22/2022 09:55
13C8 PFOA	0.98	0.49	50	50-150		06/22/2022 09:55
13C9 PFNA	0.98	0.56	58	50-150		06/22/2022 09:55
13C8 PFOS	0.94	0.57	61	50-150		06/22/2022 09:55
13C2 8:2FTS	0.94	3.0	318	50-150	R	06/22/2022 09:55
13C6 PFDA	0.98	0.75	77	50-150		06/22/2022 09:55
d3-MeFOSAA	0.98	1.1	107	50-150		06/22/2022 09:55
13C8 PFOSA	0.98	0.37	38	50-150	R	06/22/2022 09:55
d5-EtFOSAA	0.98	0.98	100	50-150		06/22/2022 09:55
13C7 PFUdA	0.98	0.64	66	50-150		06/22/2022 09:55
13C2 PFDaA	0.98	0.82	83	50-150		06/22/2022 09:55
13C2 PFTeDA	0.98	0.77	79	50-150		06/22/2022 09:55
13C3 HFPO-DA	0.98	0.49	50	50-150		06/22/2022 09:55
13C2 PFHxDA	0.98	0.39	40	50-150	R	06/22/2022 09:55
d3-N-MeFOSA	0.98	0.18	18	10-150		06/22/2022 09:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB155-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607037	Percent Moisture	39.1079%
Lab File ID	Q220622A_006	Dry Weight Extracted	3.11g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 11:13	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.14	6.16	71		06/22/2022 09:55
13C4 PFOA	N/A	N/A	7.40	7.44	10		06/22/2022 09:55
13C2 PFDA	N/A	N/A	8.70	8.74	53		06/22/2022 09:55
13C4 PFOS	N/A	N/A	9.11	9.16	37		06/22/2022 09:55

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.74	4.75	19		06/22/2022 09:55
13C5 PFPeA	N/A	N/A	5.51	5.53	12		06/22/2022 09:55
13C3 PFBS	N/A	N/A	6.37	6.39	57		06/22/2022 09:55
13C2 4:2FTS	N/A	N/A	5.88	5.90	34	R	06/22/2022 09:55
13C5 PFHxA	N/A	N/A	6.14	6.17	79		06/22/2022 09:55
13C4 PFHpA	N/A	N/A	6.78	6.80	80		06/22/2022 09:55
13C3 PFHxS	N/A	N/A	7.78	7.81	74		06/22/2022 09:55
13C2 6:2FTS	N/A	N/A	7.08	7.10	37	R	06/22/2022 09:55
13C8 PFOA	N/A	N/A	7.41	7.43	14		06/22/2022 09:55
13C9 PFNA	N/A	N/A	8.05	8.08	72		06/22/2022 09:55
13C8 PFOS	N/A	N/A	9.12	9.17	32		06/22/2022 09:55
13C2 8:2FTS	N/A	N/A	8.33	8.38	22	R	06/22/2022 09:55
13C6 PFDA	N/A	N/A	8.70	8.75	60		06/22/2022 09:55
d3-MeFOSAA	N/A	N/A	8.61	8.65	50		06/22/2022 09:55
13C8 PFOSA	N/A	N/A	11.20	11.18	89	R	06/22/2022 09:55
d5-EtFOSAA	N/A	N/A	8.91	8.95	70		06/22/2022 09:55
13C7 PFUdA	N/A	N/A	9.35	9.40	59		06/22/2022 09:55
13C2 PFDaA	N/A	N/A	10.00	10.05	51		06/22/2022 09:55
13C2 PFTeDA	N/A	N/A	11.25	11.30	56		06/22/2022 09:55
13C3 HFPO-DA	N/A	N/A	6.41	6.43	81		06/22/2022 09:55
13C2 PFHxDA	N/A	N/A	12.34	12.39	96	R	06/22/2022 09:55
d3-N-MeFOSA	N/A	N/A	13.09	13.07	23		06/22/2022 09:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB155-1	Total Amount Extracted	5.11g
Lab Sample ID	10609607037	Percent Moisture	39.1079%
Lab File ID	Q220622A_006	Dry Weight Extracted	3.11g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 11:13	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	0.00	4.77	ND		06/22/2022 09:55
PFPeA	N/A	N/A	5.55	5.54	ND		06/22/2022 09:55
HFPO-DA	0.00	0.55	0.00	6.44	ND		06/22/2022 09:55
PFBS	1.60	0.37	6.38	6.40	ND		06/22/2022 09:55
PFHxA	0.19	0.09	6.15	6.17	ND		06/22/2022 09:55
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/22/2022 09:55
PFPeS	0.00	0.37	0.00	7.12	ND		06/22/2022 09:55
PFHpA	0.00	0.48	0.00	6.81	ND		06/22/2022 09:55
DONA	0.00	0.49	0.00	7.04	ND		06/22/2022 09:55
PFHxS	0.34	0.32	7.78	7.82	ND		06/22/2022 09:55
PFOA	0.00	0.26	0.00	7.44	ND		06/22/2022 09:55
6:2 FTS	1.30	1.30	7.09	7.12	ND		06/22/2022 09:55
PFHpS	0.03	0.26	8.47	8.51	ND		06/22/2022 09:55
PFNA	0.00	0.24	0.00	8.10	ND		06/22/2022 09:55
PFOSAm	N/A	N/A	0.00	11.19	ND		06/22/2022 09:55
PFOS	0.20	0.20	9.12	9.18	ND		06/22/2022 09:55
MeFOSA	0.00	0.47	0.00	13.09	ND		06/22/2022 09:55
PFDA	0.00	0.21	0.00	8.75	ND		06/22/2022 09:55
8:2 FTS	0.00	1.50	0.00	8.38	ND		06/22/2022 09:55
9-Cl-PF3ON	0.00	0.06	0.00	9.66	ND		06/22/2022 09:55
PFNS	0.00	0.25	0.00	9.83	ND		06/22/2022 09:55
PFUnDA	0.00	0.17	0.00	9.40	ND		06/22/2022 09:55
NMeFOSAA	0.00	0.88	0.00	8.66	ND		06/22/2022 09:55
NEtFOSAA	0.00	0.47	0.00	8.96	ND		06/22/2022 09:55
PFDS	0.00	0.27	0.00	10.47	ND		06/22/2022 09:55
PFDOA	0.00	0.19	0.00	10.05	ND		06/22/2022 09:55
11-Cl-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/22/2022 09:55
PFTrDA	0.00	0.21	0.00	10.69	ND		06/22/2022 09:55
PFTDA	0.00	0.17	0.00	11.30	ND		06/22/2022 09:55

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID SB157-1
 Lab Sample ID 10609607038
 Lab File ID Q220622A_007
 Matrix Soil
 Collected 05/19/2022 11:24
 Received 05/21/2022 10:00
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.08g
 Percent Moisture 37.3783%
 Dry Weight Extracted 3.18g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File Q220621A_011

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.098	0.098	0.023	1	375-22-4		06/22/2022 10:13
PFPeA	ND	0.098	0.098	0.026	1	2706-90-3		06/22/2022 10:13
HFPO-DA	ND	0.098	0.098	0.029	1	13252-13-6		06/22/2022 10:13
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/22/2022 10:13
PFHxA	ND	0.098	0.098	0.030	1	307-24-4		06/22/2022 10:13
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/22/2022 10:13
PFPeS	ND	0.092	0.092	0.018	1	2706-91-4		06/22/2022 10:13
PFHpA	ND	0.098	0.098	0.022	1	375-85-9		06/22/2022 10:13
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/22/2022 10:13
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/22/2022 10:13
PFOA	ND	0.098	0.098	0.022	1	335-67-1		06/22/2022 10:13
6:2 FTS	ND	0.093	0.093	0.031	1	27619-97-2		06/22/2022 10:13
PFHpS	ND	0.093	0.093	0.025	1	375-92-8		06/22/2022 10:13
PFNA	ND	0.098	0.098	0.028	1	375-95-1		06/22/2022 10:13
PFOSAm	ND	0.098	0.098	0.023	1	754-91-6		06/22/2022 10:13
PFOS	0.20	0.091	0.091	0.027	1	1763-23-1		06/22/2022 10:13
MeFOSA	ND	0.098	0.098	0.024	1	31506-32-8		06/22/2022 10:13
PFDA	ND	0.098	0.098	0.021	1	335-76-2		06/22/2022 10:13
8:2 FTS	ND	0.094	0.094	0.025	1	39108-34-4		06/22/2022 10:13
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/22/2022 10:13
PFNS	ND	0.094	0.094	0.018	1	68259-12-1		06/22/2022 10:13
PFUnDA	ND	0.098	0.098	0.028	1	2058-94-8		06/22/2022 10:13
NMeFOSAA	ND	0.098	0.098	0.023	1	2355-31-9		06/22/2022 10:13
NEtFOSAA	ND	0.098	0.098	0.024	1	2991-50-6		06/22/2022 10:13
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/22/2022 10:13
PFDOA	ND	0.098	0.098	0.026	1	307-55-1		06/22/2022 10:13
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/22/2022 10:13
PFTTrDA	ND	0.098	0.098	0.021	1	72629-94-8		06/22/2022 10:13
PFTDA	ND	0.098	0.098	0.032	1	376-06-7		06/22/2022 10:13

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB157-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607038	Percent Moisture	37.3783%
Lab File ID	Q220622A_007	Dry Weight Extracted	3.18g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 11:24	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.98	0.60	61	50-150		06/22/2022 10:13
13C4 PFOA	0.98	0.57	58	50-150		06/22/2022 10:13
13C2 PFDA	0.98	0.71	72	50-150		06/22/2022 10:13
13C4 PFOS	0.94	0.85	90	50-150		06/22/2022 10:13

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.98	0.56	57	50-150		06/22/2022 10:13
13C5 PFPeA	0.98	0.53	54	50-150		06/22/2022 10:13
13C3 PFBS	0.91	0.51	56	50-150		06/22/2022 10:13
13C2 4:2FTS	0.92	1.7	185	50-150	R	06/22/2022 10:13
13C5 PFHxA	0.98	0.44	45	50-150	R	06/22/2022 10:13
13C4 PFHpA	0.98	0.51	52	50-150		06/22/2022 10:13
13C3 PFHxS	0.93	0.61	66	50-150		06/22/2022 10:13
13C2 6:2FTS	0.93	2.9	314	50-150	R	06/22/2022 10:13
13C8 PFOA	0.98	0.52	52	50-150		06/22/2022 10:13
13C9 PFNA	0.98	0.61	62	50-150		06/22/2022 10:13
13C8 PFOS	0.94	0.55	58	50-150		06/22/2022 10:13
13C2 8:2FTS	0.94	2.7	288	50-150	R	06/22/2022 10:13
13C6 PFDA	0.98	0.64	65	50-150		06/22/2022 10:13
d3-MeFOSAA	0.98	0.99	101	50-150		06/22/2022 10:13
13C8 PFOSA	0.98	0.37	38	50-150	R	06/22/2022 10:13
d5-EtFOSAA	0.98	1.0	105	50-150		06/22/2022 10:13
13C7 PFUdA	0.98	0.64	65	50-150		06/22/2022 10:13
13C2 PFDoA	0.98	0.76	77	50-150		06/22/2022 10:13
13C2 PFTeDA	0.98	0.80	81	50-150		06/22/2022 10:13
13C3 HFPO-DA	0.98	0.44	45	50-150	R	06/22/2022 10:13
13C2 PFHxDA	0.98	0.42	42	50-150	R	06/22/2022 10:13
d3-N-MeFOSA	0.98	0.19	20	10-150		06/22/2022 10:13

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB157-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607038	Percent Moisture	37.3783%
Lab File ID	Q220622A_007	Dry Weight Extracted	3.18g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 11:24	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.14	6.16	62		06/22/2022 10:13
13C4 PFOA	N/A	N/A	7.41	7.44	12		06/22/2022 10:13
13C2 PFDA	N/A	N/A	8.70	8.74	52		06/22/2022 10:13
13C4 PFOS	N/A	N/A	9.12	9.16	36		06/22/2022 10:13

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	18		06/22/2022 10:13
13C5 PFPeA	N/A	N/A	5.51	5.53	11		06/22/2022 10:13
13C3 PFBS	N/A	N/A	6.36	6.39	43		06/22/2022 10:13
13C2 4:2FTS	N/A	N/A	5.88	5.90	32	R	06/22/2022 10:13
13C5 PFHxA	N/A	N/A	6.14	6.17	63	R	06/22/2022 10:13
13C4 PFHpA	N/A	N/A	6.77	6.80	98		06/22/2022 10:13
13C3 PFHxS	N/A	N/A	7.78	7.81	70		06/22/2022 10:13
13C2 6:2FTS	N/A	N/A	7.08	7.10	38	R	06/22/2022 10:13
13C8 PFOA	N/A	N/A	7.41	7.43	11		06/22/2022 10:13
13C9 PFNA	N/A	N/A	8.05	8.08	78		06/22/2022 10:13
13C8 PFOS	N/A	N/A	9.12	9.17	30		06/22/2022 10:13
13C2 8:2FTS	N/A	N/A	8.33	8.38	31	R	06/22/2022 10:13
13C6 PFDA	N/A	N/A	8.70	8.75	76		06/22/2022 10:13
d3-MeFOSAA	N/A	N/A	8.61	8.65	74		06/22/2022 10:13
13C8 PFOSA	N/A	N/A	11.19	11.18	98	R	06/22/2022 10:13
d5-EtFOSAA	N/A	N/A	8.91	8.95	67		06/22/2022 10:13
13C7 PFUdA	N/A	N/A	9.35	9.40	94		06/22/2022 10:13
13C2 PFDoA	N/A	N/A	10.00	10.05	47		06/22/2022 10:13
13C2 PFTeDA	N/A	N/A	11.25	11.30	58		06/22/2022 10:13
13C3 HFPO-DA	N/A	N/A	6.41	6.43	75	R	06/22/2022 10:13
13C2 PFHxDA	N/A	N/A	12.33	12.39	94	R	06/22/2022 10:13
d3-N-MeFOSA	N/A	N/A	13.09	13.07	23		06/22/2022 10:13

REPORT OF LABORATORY ANALYSIS

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	SB157-1	Total Amount Extracted	5.08g
Lab Sample ID	10609607038	Percent Moisture	37.3783%
Lab File ID	Q220622A_007	Dry Weight Extracted	3.18g
Matrix	Soil	Ical ID	220616A01
Collected	05/19/2022 11:24	CCal File	Q220622A_004
Received	05/21/2022 10:00	Ending CCal File	Q220622A_016
Extraction Date	06/14/2022 13:19	Blank File	Q220621A_011

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.73	4.77	ND		06/22/2022 10:13
PFPeA	N/A	N/A	5.52	5.54	ND		06/22/2022 10:13
HFPO-DA	0.00	0.55	0.00	6.44	ND		06/22/2022 10:13
PFBS	0.41	0.37	6.37	6.40	ND		06/22/2022 10:13
PFHxA	0.11	0.09	6.16	6.17	ND		06/22/2022 10:13
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/22/2022 10:13
PFPeS	0.40	0.37	7.09	7.12	ND		06/22/2022 10:13
PFHpA	0.45	0.48	6.78	6.81	ND		06/22/2022 10:13
DONA	0.00	0.49	0.00	7.04	ND		06/22/2022 10:13
PFHxS	0.32	0.32	7.78	7.82	ND		06/22/2022 10:13
PFOA	0.00	0.26	0.00	7.44	ND		06/22/2022 10:13
6:2 FTS	1.40	1.30	7.09	7.12	ND		06/22/2022 10:13
PFHpS	0.12	0.26	8.47	8.51	ND		06/22/2022 10:13
PFNA	0.00	0.24	0.00	8.10	ND		06/22/2022 10:13
PFOSAm	N/A	N/A	11.24	11.19	ND		06/22/2022 10:13
PFOS	0.17	0.20	9.13	9.18	10		06/22/2022 10:13
MeFOSA	0.00	0.47	0.00	13.09	ND		06/22/2022 10:13
PFDA	0.00	0.21	0.00	8.75	ND		06/22/2022 10:13
8:2 FTS	13.0	1.50	8.35	8.38	ND		06/22/2022 10:13
9-Cl-PF3ON	0.00	0.06	0.00	9.66	ND		06/22/2022 10:13
PFNS	0.00	0.25	0.00	9.83	ND		06/22/2022 10:13
PFUnDA	0.00	0.17	0.00	9.40	ND		06/22/2022 10:13
NMeFOSAA	0.00	0.88	0.00	8.66	ND		06/22/2022 10:13
NEtFOSAA	0.00	0.47	0.00	8.96	ND		06/22/2022 10:13
PFDS	0.00	0.27	0.00	10.47	ND		06/22/2022 10:13
PFDOA	0.00	0.19	0.00	10.05	ND		06/22/2022 10:13
11-Cl-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/22/2022 10:13
PFTrDA	0.00	0.21	0.00	10.69	ND		06/22/2022 10:13
PFTDA	0.00	0.17	0.00	11.30	ND		06/22/2022 10:13

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID EB519
 Lab Sample ID 10609607039
 Lab File ID B220613B_029
 Matrix Water
 Collected 05/19/2022 19:15
 Received 05/21/2022 10:00
 Extraction Date 06/09/2022 14:33

Total Amount Extracted 260mL
 Ical ID 220613A02
 CCal File B220613B_024
 Ending CCal File B220613B_033
 Blank File B220613B_007

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	1.9	0.42	1	375-22-4		06/13/2022 23:54
PFPeA	ND	1.9	1.9	0.42	1	2706-90-3		06/13/2022 23:54
HFPO-DA	ND	1.9	1.9	0.51	1	13252-13-6		06/13/2022 23:54
PFBS	ND	1.7	1.7	0.45	1	375-73-5		06/13/2022 23:54
PFHxA	ND	1.9	1.9	0.42	1	307-24-4		06/13/2022 23:54
4:2 FTS	ND	1.8	1.8	0.54	1	757124-72-4		06/13/2022 23:54
PFPeS	ND	1.8	1.8	0.46	1	2706-91-4		06/13/2022 23:54
PFHpA	ND	1.9	1.9	0.53	1	375-85-9		06/13/2022 23:54
DONA	ND	1.8	1.8	0.49	1	919005-14-4		06/13/2022 23:54
PFHxS	ND	1.7	1.7	0.49	1	355-46-4		06/13/2022 23:54
PFOA	ND	1.9	1.9	0.56	1	335-67-1		06/13/2022 23:54
6:2 FTS	ND	1.8	1.8	0.62	1	27619-97-2		06/13/2022 23:54
PFHpS	ND	1.8	1.8	0.40	1	375-92-8		06/13/2022 23:54
PFNA	ND	1.9	1.9	0.71	1	375-95-1		06/13/2022 23:54
PFOSAm	ND	1.9	1.9	0.79	1	754-91-6		06/13/2022 23:54
PFOS	ND	1.8	1.8	0.53	1	1763-23-1		06/13/2022 23:54
MeFOSA	ND	1.9	1.9	0.49	1	31506-32-8		06/13/2022 23:54
PFDA	ND	1.9	1.9	0.54	1	335-76-2		06/13/2022 23:54
8:2 FTS	ND	1.8	1.8	0.63	1	39108-34-4		06/13/2022 23:54
9-CI-PF3ON	ND	1.8	1.8	0.29	1	756426-58-1		06/13/2022 23:54
PFNS	ND	1.8	1.8	0.43	1	68259-12-1		06/13/2022 23:54
PFUnDA	ND	1.9	1.9	0.52	1	2058-94-8		06/13/2022 23:54
NMeFOSAA	ND	1.9	1.9	0.42	1	2355-31-9		06/13/2022 23:54
NEtFOSAA	ND	1.9	1.9	0.53	1	2991-50-6		06/13/2022 23:54
PFDS	ND	1.9	1.9	0.43	1	335-77-3		06/13/2022 23:54
PFDOA	ND	1.9	1.9	0.46	1	307-55-1		06/13/2022 23:54
11-CI-PF3OUdS	ND	1.8	1.8	0.42	1	763051-92-9		06/13/2022 23:54
PFTTrDA	ND	1.9	1.9	0.60	1	72629-94-8		06/13/2022 23:54
PFTDA	ND	1.9	1.9	0.46	1	376-06-7		06/13/2022 23:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID EB519
 Lab Sample ID 10609607039
 Lab File ID B220613B_029
 Matrix Water
 Collected 05/19/2022 19:15
 Received 05/21/2022 10:00
 Extraction Date 06/09/2022 14:33

Total Amount Extracted 260mL
 Ical ID 220613A02
 CCal File B220613B_024
 Ending CCal File B220613B_033
 Blank File B220613B_007

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	22	115	50-150		06/13/2022 23:54
13C4 PFOA	19	23	119	50-150		06/13/2022 23:54
13C2 PFDA	19	27	141	50-150		06/13/2022 23:54
13C4 PFOS	18	23	127	50-150		06/13/2022 23:54

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	21	111	50-150		06/13/2022 23:54
13C5 PFPeA	19	22	116	50-150		06/13/2022 23:54
13C3 PFBS	18	21	115	50-150		06/13/2022 23:54
13C2 4:2FTS	18	22	124	50-150		06/13/2022 23:54
13C5 PFHxA	19	22	113	50-150		06/13/2022 23:54
13C4 PFHpA	19	22	114	50-150		06/13/2022 23:54
13C3 PFHxS	18	20	109	50-150		06/13/2022 23:54
13C2 6:2FTS	18	22	121	50-150		06/13/2022 23:54
13C8 PFOA	19	22	116	50-150		06/13/2022 23:54
13C9 PFNA	19	22	117	50-150		06/13/2022 23:54
13C8 PFOS	18	21	116	50-150		06/13/2022 23:54
13C2 8:2FTS	18	20	107	50-150		06/13/2022 23:54
13C6 PFDA	19	23	121	50-150		06/13/2022 23:54
d3-MeFOSAA	19	20	105	50-150		06/13/2022 23:54
13C8 PFOSA	19	9.4	49	50-150	R	06/13/2022 23:54
d5-EtFOSAA	19	15	76	50-150		06/13/2022 23:54
13C7 PFUdA	19	27	138	50-150		06/13/2022 23:54
13C2 PFDoA	19	22	116	50-150		06/13/2022 23:54
13C2 PFTeDA	19	13	65	50-150		06/13/2022 23:54
13C3 HFPO-DA	19	23	120	50-150		06/13/2022 23:54
13C2 PFHxDA	19	14	72	50-150		06/13/2022 23:54
d3-N-MeFOSA	19	0.047	0	10-150	R	06/13/2022 23:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	EB519	Total Amount Extracted	260mL
Lab Sample ID	10609607039	Ical ID	220613A02
Lab File ID	B220613B_029	CCal File	B220613B_024
Matrix	Water	Ending CCal File	B220613B_033
Collected	05/19/2022 19:15	Blank File	B220613B_007
Received	05/21/2022 10:00		
Extraction Date	06/09/2022 14:33		

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.74	5.73	15		06/13/2022 23:54
13C4 PFOA	N/A	N/A	7.05	7.04	20		06/13/2022 23:54
13C2 PFDA	N/A	N/A	8.40	8.39	12		06/13/2022 23:54
13C4 PFOS	N/A	N/A	8.88	8.88	14		06/13/2022 23:54

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.36	4.37	34		06/13/2022 23:54
13C5 PFPeA	N/A	N/A	5.11	5.15	19		06/13/2022 23:54
13C3 PFBS	N/A	N/A	6.00	5.99	15		06/13/2022 23:54
13C2 4:2FTS	N/A	N/A	5.47	5.46	57		06/13/2022 23:54
13C5 PFHxA	N/A	N/A	5.74	5.73	19		06/13/2022 23:54
13C4 PFHpA	N/A	N/A	6.39	6.38	17		06/13/2022 23:54
13C3 PFHxS	N/A	N/A	7.47	7.47	13		06/13/2022 23:54
13C2 6:2FTS	N/A	N/A	6.70	6.70	62		06/13/2022 23:54
13C8 PFOA	N/A	N/A	7.05	7.04	16		06/13/2022 23:54
13C9 PFNA	N/A	N/A	7.72	7.71	16		06/13/2022 23:54
13C8 PFOS	N/A	N/A	8.88	8.88	13		06/13/2022 23:54
13C2 8:2FTS	N/A	N/A	8.01	8.01	15		06/13/2022 23:54
13C6 PFDA	N/A	N/A	8.40	8.40	12		06/13/2022 23:54
d3-MeFOSAA	N/A	N/A	8.26	8.26	16		06/13/2022 23:54
13C8 PFOSA	N/A	N/A	10.63	10.63	15	R	06/13/2022 23:54
d5-EtFOSAA	N/A	N/A	8.56	8.56	77		06/13/2022 23:54
13C7 PFUdA	N/A	N/A	9.07	9.08	19		06/13/2022 23:54
13C2 PFDoA	N/A	N/A	9.76	9.76	14		06/13/2022 23:54
13C2 PFTeDA	N/A	N/A	11.08	11.07	10		06/13/2022 23:54
13C3 HFPO-DA	N/A	N/A	6.01	6.00	16		06/13/2022 23:54
13C2 PFHxDA	N/A	N/A	12.26	12.25	16		06/13/2022 23:54
d3-N-MeFOSA	N/A	N/A	12.55	12.56	41	R	06/13/2022 23:54

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Sample Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	EB519	Total Amount Extracted	260mL
Lab Sample ID	10609607039	Ical ID	220613A02
Lab File ID	B220613B_029	CCal File	B220613B_024
Matrix	Water	Ending CCal File	B220613B_033
Collected	05/19/2022 19:15	Blank File	B220613B_007
Received	05/21/2022 10:00		
Extraction Date	06/09/2022 14:33		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.36	4.36	ND		06/13/2022 23:54
PFPeA	N/A	N/A	5.12	5.14	ND		06/13/2022 23:54
HFPO-DA	0.21	0.28	6.02	6.02	ND		06/13/2022 23:54
PFBS	0.52	0.39	6.01	6.00	ND		06/13/2022 23:54
PFHxA	0.07	0.09	5.75	5.74	ND		06/13/2022 23:54
4:2 FTS	0.00	0.90	0.00	5.47	ND		06/13/2022 23:54
PFPeS	0.46	0.45	6.78	6.75	ND		06/13/2022 23:54
PFHpA	0.31	0.33	6.40	6.39	ND		06/13/2022 23:54
DONA	0.49	0.66	6.63	6.63	ND		06/13/2022 23:54
PFHxS	0.42	0.36	7.48	7.47	ND		06/13/2022 23:54
PFOA	0.30	0.39	7.06	7.05	ND		06/13/2022 23:54
6:2 FTS	1.10	0.92	6.71	6.70	ND		06/13/2022 23:54
PFHpS	0.00	0.43	0.00	8.19	ND		06/13/2022 23:54
PFNA	0.12	0.14	7.73	7.72	ND		06/13/2022 23:54
PFOSAm	N/A	N/A	10.63	10.64	ND		06/13/2022 23:54
PFOS	0.39	0.40	8.89	8.88	ND		06/13/2022 23:54
MeFOSA	0.00	0.59	0.00	12.59	ND		06/13/2022 23:54
PFDA	0.19	0.19	8.39	8.41	ND		06/13/2022 23:54
8:2 FTS	0.00	0.87	0.00	8.01	ND		06/13/2022 23:54
9-Cl-PF3ON	0.00	0.06	0.00	9.38	ND		06/13/2022 23:54
PFNS	0.00	0.46	0.00	9.57	ND		06/13/2022 23:54
PFUnDA	0.00	0.14	0.00	9.08	ND		06/13/2022 23:54
NMeFOSAA	0.00	0.95	0.00	8.27	ND		06/13/2022 23:54
NEtFOSAA	0.00	0.68	0.00	8.58	ND		06/13/2022 23:54
PFDS	0.00	0.33	0.00	10.24	ND		06/13/2022 23:54
PFDOA	0.10	0.18	9.78	9.76	ND		06/13/2022 23:54
11-Cl-PF3OUdS	0.00	0.02	0.00	10.72	ND		06/13/2022 23:54
PFTrDA	0.00	0.15	0.00	10.43	ND		06/13/2022 23:54
PFTDA	0.00	0.26	0.00	11.08	ND		06/13/2022 23:54

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKGE
 Lab Sample ID BLANK-99287
 Lab File ID B220613B_007
 Matrix Water
 Collected 06/02/2022 13:08
 Received 06/02/2022 13:08
 Extraction Date 06/09/2022 14:33

Total Amount Extracted 266mL
 Ical ID 220613A02
 CCal File B220613B_001
 Ending CCal File B220613B_013
 Blank File

Compound	Concentration (ng/L)	QL (ng/L)	RL (ng/L)	MDL (ng/L)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	1.9	1.9	0.41	1	375-22-4		06/13/2022 16:34
PFPeA	ND	1.9	1.9	0.41	1	2706-90-3		06/13/2022 16:34
HFPO-DA	ND	1.9	1.9	0.50	1	13252-13-6		06/13/2022 16:34
PFBS	ND	1.7	1.7	0.45	1	375-73-5		06/13/2022 16:34
PFHxA	ND	1.9	1.9	0.41	1	307-24-4		06/13/2022 16:34
4:2 FTS	ND	1.8	1.8	0.53	1	757124-72-4		06/13/2022 16:34
PFPeS	ND	1.8	1.8	0.45	1	2706-91-4		06/13/2022 16:34
PFHpA	ND	1.9	1.9	0.52	1	375-85-9		06/13/2022 16:34
DONA	ND	1.8	1.8	0.48	1	919005-14-4		06/13/2022 16:34
PFHxS	ND	1.7	1.7	0.48	1	355-46-4		06/13/2022 16:34
PFOA	ND	1.9	1.9	0.55	1	335-67-1		06/13/2022 16:34
6:2 FTS	ND	1.8	1.8	0.61	1	27619-97-2		06/13/2022 16:34
PFHpS	ND	1.8	1.8	0.39	1	375-92-8		06/13/2022 16:34
PFNA	ND	1.9	1.9	0.70	1	375-95-1		06/13/2022 16:34
PFOSAm	ND	1.9	1.9	0.77	1	754-91-6		06/13/2022 16:34
PFOS	ND	1.7	1.7	0.52	1	1763-23-1		06/13/2022 16:34
MeFOSA	ND	1.9	1.9	0.48	1	31506-32-8		06/13/2022 16:34
PFDA	ND	1.9	1.9	0.53	1	335-76-2		06/13/2022 16:34
8:2 FTS	ND	1.8	1.8	0.61	1	39108-34-4		06/13/2022 16:34
9-CI-PF3ON	ND	1.8	1.8	0.29	1	756426-58-1		06/13/2022 16:34
PFNS	ND	1.8	1.8	0.42	1	68259-12-1		06/13/2022 16:34
PFUnDA	ND	1.9	1.9	0.51	1	2058-94-8		06/13/2022 16:34
NMeFOSAA	ND	1.9	1.9	0.41	1	2355-31-9		06/13/2022 16:34
NEtFOSAA	ND	1.9	1.9	0.52	1	2991-50-6		06/13/2022 16:34
PFDS	ND	1.8	1.8	0.42	1	335-77-3		06/13/2022 16:34
PFDOA	ND	1.9	1.9	0.45	1	307-55-1		06/13/2022 16:34
11-CI-PF3OUdS	ND	1.8	1.8	0.41	1	763051-92-9		06/13/2022 16:34
PFTTrDA	ND	1.9	1.9	0.59	1	72629-94-8		06/13/2022 16:34
PFTDA	ND	1.9	1.9	0.45	1	376-06-7		06/13/2022 16:34

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGE	Total Amount Extracted	266mL
Lab Sample ID	BLANK-99287	Ical ID	220613A02
Lab File ID	B220613B_007	CCal File	B220613B_001
Matrix	Water	Ending CCal File	B220613B_013
Collected	06/02/2022 13:08	Blank File	
Received	06/02/2022 13:08		
Extraction Date	06/09/2022 14:33		

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	19	21	113	50-150		06/13/2022 16:34
13C4 PFOA	19	22	116	50-150		06/13/2022 16:34
13C2 PFDA	19	22	118	50-150		06/13/2022 16:34
13C4 PFOS	18	20	108	50-150		06/13/2022 16:34

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	19	22	115	50-150		06/13/2022 16:34
13C5 PFPeA	19	23	120	50-150		06/13/2022 16:34
13C3 PFBS	17	21	123	50-150		06/13/2022 16:34
13C2 4:2FTS	18	21	119	50-150		06/13/2022 16:34
13C5 PFHxA	19	21	113	50-150		06/13/2022 16:34
13C4 PFHpA	19	22	118	50-150		06/13/2022 16:34
13C3 PFHxS	18	21	117	50-150		06/13/2022 16:34
13C2 6:2FTS	18	21	117	50-150		06/13/2022 16:34
13C8 PFOA	19	21	112	50-150		06/13/2022 16:34
13C9 PFNA	19	21	110	50-150		06/13/2022 16:34
13C8 PFOS	18	21	118	50-150		06/13/2022 16:34
13C2 8:2FTS	18	21	116	50-150		06/13/2022 16:34
13C6 PFDA	19	23	121	50-150		06/13/2022 16:34
d3-MeFOSAA	19	19	103	50-150		06/13/2022 16:34
13C8 PFOSA	19	18	95	50-150		06/13/2022 16:34
d5-EtFOSAA	19	16	87	50-150		06/13/2022 16:34
13C7 PFUdA	19	22	117	50-150		06/13/2022 16:34
13C2 PFDoA	19	21	110	50-150		06/13/2022 16:34
13C2 PFTeDA	19	19	101	50-150		06/13/2022 16:34
13C3 HFPO-DA	19	22	114	50-150		06/13/2022 16:34
13C2 PFHxDA	19	21	112	50-150		06/13/2022 16:34
d3-N-MeFOSA	19	13	71	10-150		06/13/2022 16:34

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGE	Total Amount Extracted	266mL
Lab Sample ID	BLANK-99287	Ical ID	220613A02
Lab File ID	B220613B_007	CCal File	B220613B_001
Matrix	Water	Ending CCal File	B220613B_013
Collected	06/02/2022 13:08	Blank File	
Received	06/02/2022 13:08		
Extraction Date	06/09/2022 14:33		

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	5.73	5.73	17		06/13/2022 16:34
13C4 PFOA	N/A	N/A	7.05	7.04	14		06/13/2022 16:34
13C2 PFDA	N/A	N/A	8.40	8.39	11		06/13/2022 16:34
13C4 PFOS	N/A	N/A	8.88	8.88	14		06/13/2022 16:34

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.35	4.37	33		06/13/2022 16:34
13C5 PFPeA	N/A	N/A	5.10	5.15	20		06/13/2022 16:34
13C3 PFBS	N/A	N/A	5.99	5.99	18		06/13/2022 16:34
13C2 4:2FTS	N/A	N/A	5.46	5.46	60		06/13/2022 16:34
13C5 PFHxA	N/A	N/A	5.74	5.73	23		06/13/2022 16:34
13C4 PFHpA	N/A	N/A	6.39	6.38	13		06/13/2022 16:34
13C3 PFHxS	N/A	N/A	7.47	7.47	14		06/13/2022 16:34
13C2 6:2FTS	N/A	N/A	6.70	6.70	10		06/13/2022 16:34
13C8 PFOA	N/A	N/A	7.05	7.04	16		06/13/2022 16:34
13C9 PFNA	N/A	N/A	7.72	7.71	22		06/13/2022 16:34
13C8 PFOS	N/A	N/A	8.88	8.88	14		06/13/2022 16:34
13C2 8:2FTS	N/A	N/A	8.01	8.01	54		06/13/2022 16:34
13C6 PFDA	N/A	N/A	8.40	8.40	11		06/13/2022 16:34
d3-MeFOSAA	N/A	N/A	8.26	8.26	22		06/13/2022 16:34
13C8 PFOSA	N/A	N/A	10.63	10.63	14		06/13/2022 16:34
d5-EtFOSAA	N/A	N/A	8.56	8.56	61		06/13/2022 16:34
13C7 PFUdA	N/A	N/A	9.08	9.08	21		06/13/2022 16:34
13C2 PFDoA	N/A	N/A	9.76	9.76	10		06/13/2022 16:34
13C2 PFTeDA	N/A	N/A	11.08	11.07	90		06/13/2022 16:34
13C3 HFPO-DA	N/A	N/A	6.00	6.00	13		06/13/2022 16:34
13C2 PFHxDA	N/A	N/A	12.26	12.25	33		06/13/2022 16:34
d3-N-MeFOSA	N/A	N/A	12.56	12.56	49		06/13/2022 16:34

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKGE	Total Amount Extracted	266mL
Lab Sample ID	BLANK-99287	Ical ID	220613A02
Lab File ID	B220613B_007	CCal File	B220613B_001
Matrix	Water	Ending CCal File	B220613B_013
Collected	06/02/2022 13:08	Blank File	
Received	06/02/2022 13:08		
Extraction Date	06/09/2022 14:33		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.35	4.36	ND		06/13/2022 16:34
PFPeA	N/A	N/A	5.11	5.14	ND		06/13/2022 16:34
HFPO-DA	0.23	0.29	6.02	6.02	ND		06/13/2022 16:34
PFBS	0.45	0.38	6.00	6.00	ND		06/13/2022 16:34
PFHxA	0.08	0.08	5.74	5.74	ND		06/13/2022 16:34
4:2 FTS	0.00	0.90	0.00	5.47	ND		06/13/2022 16:34
PFPeS	0.00	0.39	0.00	6.75	ND		06/13/2022 16:34
PFHpA	0.29	0.29	6.40	6.39	ND		06/13/2022 16:34
DONA	0.91	0.64	6.63	6.63	ND		06/13/2022 16:34
PFHxS	0.00	0.34	7.48	7.47	ND		06/13/2022 16:34
PFOA	0.29	0.36	7.05	7.05	ND		06/13/2022 16:34
6:2 FTS	0.81	0.90	6.70	6.70	ND		06/13/2022 16:34
PFHpS	0.00	0.41	0.00	8.19	ND		06/13/2022 16:34
PFNA	0.11	0.14	7.73	7.72	ND		06/13/2022 16:34
PFOSAm	N/A	N/A	10.64	10.64	ND		06/13/2022 16:34
PFOS	0.46	0.38	8.89	8.88	ND		06/13/2022 16:34
MeFOSA	0.00	0.62	0.00	12.59	ND		06/13/2022 16:34
PFDA	0.00	0.15	0.00	8.41	ND		06/13/2022 16:34
8:2 FTS	0.00	0.91	0.00	8.01	ND		06/13/2022 16:34
9-Cl-PF3ON	0.00	0.07	0.00	9.38	ND		06/13/2022 16:34
PFNS	0.00	0.45	0.00	9.57	ND		06/13/2022 16:34
PFUnDA	0.17	0.13	9.09	9.08	ND		06/13/2022 16:34
NMeFOSAA	0.46	0.81	8.26	8.27	ND		06/13/2022 16:34
NEtFOSAA	0.00	0.67	0.00	8.58	ND		06/13/2022 16:34
PFDS	0.00	0.34	0.00	10.24	ND		06/13/2022 16:34
PFDOA	0.00	0.20	0.00	9.76	ND		06/13/2022 16:34
11-Cl-PF3OUdS	0.00	0.02	0.00	10.72	ND		06/13/2022 16:34
PFTrDA	0.00	0.17	0.00	10.43	ND		06/13/2022 16:34
PFTDA	0.00	0.28	0.00	11.08	ND		06/13/2022 16:34

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIL
 Lab Sample ID BLANK-99469
 Lab File ID Q220621A_011
 Matrix Soil
 Collected 06/13/2022 15:04
 Received 06/13/2022 15:04
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.01g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.100	0.100	0.024	1	375-22-4		06/21/2022 11:25
PFPeA	ND	0.100	0.100	0.026	1	2706-90-3		06/21/2022 11:25
HFPO-DA	ND	0.100	0.100	0.030	1	13252-13-6		06/21/2022 11:25
PFBS	ND	0.088	0.088	0.022	1	375-73-5		06/21/2022 11:25
PFHxA	ND	0.100	0.100	0.030	1	307-24-4		06/21/2022 11:25
4:2 FTS	ND	0.093	0.093	0.032	1	757124-72-4		06/21/2022 11:25
PFPeS	ND	0.094	0.094	0.019	1	2706-91-4		06/21/2022 11:25
PFHpA	ND	0.100	0.100	0.022	1	375-85-9		06/21/2022 11:25
DONA	ND	0.094	0.094	0.038	1	919005-14-4		06/21/2022 11:25
PFHxS	ND	0.091	0.091	0.022	1	355-46-4		06/21/2022 11:25
PFOA	ND	0.100	0.100	0.023	1	335-67-1		06/21/2022 11:25
6:2 FTS	ND	0.095	0.095	0.032	1	27619-97-2		06/21/2022 11:25
PFHpS	ND	0.095	0.095	0.025	1	375-92-8		06/21/2022 11:25
PFNA	ND	0.100	0.100	0.029	1	375-95-1		06/21/2022 11:25
PFOSAm	ND	0.100	0.100	0.023	1	754-91-6		06/21/2022 11:25
PFOS	ND	0.092	0.092	0.028	1	1763-23-1		06/21/2022 11:25
MeFOSA	ND	0.100	0.100	0.025	1	31506-32-8		06/21/2022 11:25
PFDA	ND	0.100	0.100	0.022	1	335-76-2		06/21/2022 11:25
8:2 FTS	ND	0.096	0.096	0.026	1	39108-34-4		06/21/2022 11:25
9-CI-PF3ON	ND	0.093	0.093	0.014	1	756426-58-1		06/21/2022 11:25
PFNS	ND	0.096	0.096	0.018	1	68259-12-1		06/21/2022 11:25
PFUnDA	ND	0.100	0.100	0.028	1	2058-94-8		06/21/2022 11:25
NMeFOSAA	ND	0.100	0.100	0.023	1	2355-31-9		06/21/2022 11:25
NEtFOSAA	ND	0.100	0.100	0.025	1	2991-50-6		06/21/2022 11:25
PFDS	ND	0.096	0.096	0.025	1	335-77-3		06/21/2022 11:25
PFDOA	ND	0.100	0.100	0.027	1	307-55-1		06/21/2022 11:25
11-CI-PF3OUdS	ND	0.094	0.094	0.016	1	763051-92-9		06/21/2022 11:25
PFTTrDA	ND	0.100	0.100	0.021	1	72629-94-8		06/21/2022 11:25
PFTDA	ND	0.100	0.100	0.032	1	376-06-7		06/21/2022 11:25

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIL
 Lab Sample ID BLANK-99469
 Lab File ID Q220621A_011
 Matrix Soil
 Collected 06/13/2022 15:04
 Received 06/13/2022 15:04
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.01g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	1.00	1.2	123	50-150		06/21/2022 11:25
13C4 PFOA	1.00	1.0	103	50-150		06/21/2022 11:25
13C2 PFDA	1.00	0.86	86	50-150		06/21/2022 11:25
13C4 PFOS	0.96	0.96	101	50-150		06/21/2022 11:25

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	1.00	0.50	50	50-150		06/21/2022 11:25
13C5 PFPeA	1.00	0.44	44	50-150	R	06/21/2022 11:25
13C3 PFBS	0.93	0.45	49	50-150	R	06/21/2022 11:25
13C2 4:2FTS	0.93	0.43	46	50-150	R	06/21/2022 11:25
13C5 PFHxA	1.00	0.51	51	50-150		06/21/2022 11:25
13C4 PFHpA	1.00	0.46	46	50-150	R	06/21/2022 11:25
13C3 PFHxS	0.94	0.40	42	50-150	R	06/21/2022 11:25
13C2 6:2FTS	0.95	0.39	41	50-150	R	06/21/2022 11:25
13C8 PFOA	1.00	0.39	39	50-150	R	06/21/2022 11:25
13C9 PFNA	1.00	0.46	46	50-150	R	06/21/2022 11:25
13C8 PFOS	0.96	0.39	41	50-150	R	06/21/2022 11:25
13C2 8:2FTS	0.96	0.44	46	50-150	R	06/21/2022 11:25
13C6 PFDA	1.00	0.45	45	50-150	R	06/21/2022 11:25
d3-MeFOSAA	1.00	0.40	40	50-150	R	06/21/2022 11:25
13C8 PFOSA	1.00	0.36	36	50-150	R	06/21/2022 11:25
d5-EtFOSAA	1.00	0.37	37	50-150	R	06/21/2022 11:25
13C7 PFUdA	1.00	0.38	38	50-150	R	06/21/2022 11:25
13C2 PFDoA	1.00	0.41	41	50-150	R	06/21/2022 11:25
13C2 PFTeDA	1.00	0.40	40	50-150	R	06/21/2022 11:25
13C3 HFPO-DA	1.00	0.50	50	50-150		06/21/2022 11:25
13C2 PFHxDA	1.00	0.42	42	50-150	R	06/21/2022 11:25
d3-N-MeFOSA	1.00	0.41	41	10-150		06/21/2022 11:25

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIL
 Lab Sample ID BLANK-99469
 Lab File ID Q220621A_011
 Matrix Soil
 Collected 06/13/2022 15:04
 Received 06/13/2022 15:04
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.01g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.18	6.16	12		06/21/2022 11:25
13C4 PFOA	N/A	N/A	7.47	7.44	13		06/21/2022 11:25
13C2 PFDA	N/A	N/A	8.77	8.74	18		06/21/2022 11:25
13C4 PFOS	N/A	N/A	9.19	9.16	14		06/21/2022 11:25

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	17		06/21/2022 11:25
13C5 PFPeA	N/A	N/A	5.52	5.53	98	R	06/21/2022 11:25
13C3 PFBS	N/A	N/A	6.41	6.39	35	R	06/21/2022 11:25
13C2 4:2FTS	N/A	N/A	5.91	5.90	33	R	06/21/2022 11:25
13C5 PFHxA	N/A	N/A	6.18	6.17	83		06/21/2022 11:25
13C4 PFHpA	N/A	N/A	6.83	6.80	10	R	06/21/2022 11:25
13C3 PFHxS	N/A	N/A	7.84	7.81	13	R	06/21/2022 11:25
13C2 6:2FTS	N/A	N/A	7.14	7.10	54	R	06/21/2022 11:25
13C8 PFOA	N/A	N/A	7.47	7.43	11	R	06/21/2022 11:25
13C9 PFNA	N/A	N/A	8.12	8.08	13	R	06/21/2022 11:25
13C8 PFOS	N/A	N/A	9.19	9.17	62	R	06/21/2022 11:25
13C2 8:2FTS	N/A	N/A	8.41	8.38	15	R	06/21/2022 11:25
13C6 PFDA	N/A	N/A	8.77	8.75	10	R	06/21/2022 11:25
d3-MeFOSAA	N/A	N/A	8.68	8.65	43	R	06/21/2022 11:25
13C8 PFOSA	N/A	N/A	11.28	11.18	94	R	06/21/2022 11:25
d5-EtFOSAA	N/A	N/A	8.99	8.95	38	R	06/21/2022 11:25
13C7 PFUdA	N/A	N/A	9.42	9.40	27	R	06/21/2022 11:25
13C2 PFDoA	N/A	N/A	10.09	10.05	67	R	06/21/2022 11:25
13C2 PFTeDA	N/A	N/A	11.37	11.30	10	R	06/21/2022 11:25
13C3 HFPO-DA	N/A	N/A	6.45	6.43	11		06/21/2022 11:25
13C2 PFHxDA	N/A	N/A	12.45	12.39	16	R	06/21/2022 11:25
d3-N-MeFOSA	N/A	N/A	13.17	13.17	75		06/21/2022 11:25

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIL
 Lab Sample ID BLANK-99469
 Lab File ID Q220621A_011
 Matrix Soil
 Collected 06/13/2022 15:04
 Received 06/13/2022 15:04
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.01g
 Ical ID 220616A01
 CCal File Q220621A_009
 Ending CCal File Q220621A_023
 Blank File

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.79	4.77	ND		06/21/2022 11:25
PFPeA	N/A	N/A	5.75	5.54	ND		06/21/2022 11:25
HFPO-DA	0.00	0.35	0.00	6.44	ND		06/21/2022 11:25
PFBS	0.00	0.31	0.00	6.40	ND		06/21/2022 11:25
PFHxA	0.00	0.08	0.00	6.17	ND		06/21/2022 11:25
4:2 FTS	0.00	0.92	0.00	5.91	ND		06/21/2022 11:25
PFPeS	0.00	0.46	0.00	7.12	ND		06/21/2022 11:25
PFHpA	0.00	0.40	0.00	6.81	ND		06/21/2022 11:25
DONA	0.00	0.45	0.00	7.04	ND		06/21/2022 11:25
PFHxS	0.00	0.33	0.00	7.82	ND		06/21/2022 11:25
PFOA	0.00	0.36	0.00	7.44	ND		06/21/2022 11:25
6:2 FTS	0.00	1.30	0.00	7.12	ND		06/21/2022 11:25
PFHpS	0.00	0.36	0.00	8.51	ND		06/21/2022 11:25
PFNA	0.00	0.29	0.00	8.10	ND		06/21/2022 11:25
PFOSAm	N/A	N/A	11.27	11.19	ND		06/21/2022 11:25
PFOS	0.00	0.24	0.00	9.18	ND		06/21/2022 11:25
MeFOSA	0.00	0.43	0.00	13.09	ND		06/21/2022 11:25
PFDA	0.00	0.21	0.00	8.75	ND		06/21/2022 11:25
8:2 FTS	0.00	1.80	0.00	8.38	ND		06/21/2022 11:25
9-Cl-PF3ON	0.00	0.02	0.00	9.66	ND		06/21/2022 11:25
PFNS	0.00	0.18	0.00	9.83	ND		06/21/2022 11:25
PFUnDA	0.00	0.18	0.00	9.40	ND		06/21/2022 11:25
NMeFOSAA	0.00	0.48	0.00	8.66	ND		06/21/2022 11:25
NEtFOSAA	0.00	0.63	0.00	8.96	ND		06/21/2022 11:25
PFDS	0.00	0.26	0.00	10.47	ND		06/21/2022 11:25
PFDOA	0.00	0.24	0.00	10.05	ND		06/21/2022 11:25
11-Cl-PF3OUdS	0.00	0.03	0.00	10.92	ND		06/21/2022 11:25
PFTrDA	0.00	0.19	0.00	10.69	ND		06/21/2022 11:25
PFTDA	0.00	0.14	0.00	11.30	ND		06/21/2022 11:25

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIK
 Lab Sample ID BLANK-99467
 Lab File ID Q220622A_010
 Matrix Soil
 Collected 06/13/2022 15:01
 Received 06/13/2022 15:01
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.07g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.099	0.023	1	375-22-4		06/22/2022 11:09
PFPeA	ND	0.099	0.099	0.026	1	2706-90-3		06/22/2022 11:09
HFPO-DA	ND	0.099	0.099	0.029	1	13252-13-6		06/22/2022 11:09
PFBS	ND	0.087	0.087	0.022	1	375-73-5		06/22/2022 11:09
PFHxA	ND	0.099	0.099	0.030	1	307-24-4		06/22/2022 11:09
4:2 FTS	ND	0.092	0.092	0.031	1	757124-72-4		06/22/2022 11:09
PFPeS	ND	0.093	0.093	0.018	1	2706-91-4		06/22/2022 11:09
PFHpA	ND	0.099	0.099	0.022	1	375-85-9		06/22/2022 11:09
DONA	ND	0.093	0.093	0.038	1	919005-14-4		06/22/2022 11:09
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		06/22/2022 11:09
PFOA	ND	0.099	0.099	0.022	1	335-67-1		06/22/2022 11:09
6:2 FTS	ND	0.094	0.094	0.032	1	27619-97-2		06/22/2022 11:09
PFHpS	ND	0.094	0.094	0.025	1	375-92-8		06/22/2022 11:09
PFNA	ND	0.099	0.099	0.028	1	375-95-1		06/22/2022 11:09
PFOSAm	ND	0.099	0.099	0.023	1	754-91-6		06/22/2022 11:09
PFOS	ND	0.091	0.091	0.027	1	1763-23-1		06/22/2022 11:09
MeFOSA	ND	0.099	0.099	0.025	1	31506-32-8		06/22/2022 11:09
PFDA	ND	0.099	0.099	0.021	1	335-76-2		06/22/2022 11:09
8:2 FTS	ND	0.095	0.095	0.026	1	39108-34-4		06/22/2022 11:09
9-CI-PF3ON	ND	0.092	0.092	0.014	1	756426-58-1		06/22/2022 11:09
PFNS	ND	0.095	0.095	0.018	1	68259-12-1		06/22/2022 11:09
PFUnDA	ND	0.099	0.099	0.028	1	2058-94-8		06/22/2022 11:09
NMeFOSAA	ND	0.099	0.099	0.023	1	2355-31-9		06/22/2022 11:09
NEtFOSAA	ND	0.099	0.099	0.024	1	2991-50-6		06/22/2022 11:09
PFDS	ND	0.095	0.095	0.025	1	335-77-3		06/22/2022 11:09
PFDOA	ND	0.099	0.099	0.026	1	307-55-1		06/22/2022 11:09
11-CI-PF3OUdS	ND	0.093	0.093	0.016	1	763051-92-9		06/22/2022 11:09
PFTTrDA	ND	0.099	0.099	0.021	1	72629-94-8		06/22/2022 11:09
PFTDA	ND	0.099	0.099	0.032	1	376-06-7		06/22/2022 11:09

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIK
 Lab Sample ID BLANK-99467
 Lab File ID Q220622A_010
 Matrix Soil
 Collected 06/13/2022 15:01
 Received 06/13/2022 15:01
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.07g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	1.3	129	50-150		06/22/2022 11:09
13C4 PFOA	0.99	1.2	126	50-150		06/22/2022 11:09
13C2 PFDA	0.99	1.1	114	50-150		06/22/2022 11:09
13C4 PFOS	0.94	1.2	132	50-150		06/22/2022 11:09

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.99	100	50-150		06/22/2022 11:09
13C5 PFPeA	0.99	0.94	96	50-150		06/22/2022 11:09
13C3 PFBS	0.92	0.77	84	50-150		06/22/2022 11:09
13C2 4:2FTS	0.92	1.2	132	50-150		06/22/2022 11:09
13C5 PFHxA	0.99	0.95	96	50-150		06/22/2022 11:09
13C4 PFHpA	0.99	1.1	107	50-150		06/22/2022 11:09
13C3 PFHxS	0.93	0.93	99	50-150		06/22/2022 11:09
13C2 6:2FTS	0.94	1.8	192	50-150	R	06/22/2022 11:09
13C8 PFOA	0.99	1.0	104	50-150		06/22/2022 11:09
13C9 PFNA	0.99	1.3	133	50-150		06/22/2022 11:09
13C8 PFOS	0.94	0.96	101	50-150		06/22/2022 11:09
13C2 8:2FTS	0.95	3.5	366	50-150	R	06/22/2022 11:09
13C6 PFDA	0.99	1.2	121	50-150		06/22/2022 11:09
d3-MeFOSAA	0.99	1.8	183	50-150	R	06/22/2022 11:09
13C8 PFOSA	0.99	0.92	93	50-150		06/22/2022 11:09
d5-EtFOSAA	0.99	2.2	220	50-150	R	06/22/2022 11:09
13C7 PFUdA	0.99	1.2	119	50-150		06/22/2022 11:09
13C2 PFDoA	0.99	1.3	132	50-150		06/22/2022 11:09
13C2 PFTeDA	0.99	1.4	140	50-150		06/22/2022 11:09
13C3 HFPO-DA	0.99	1.0	104	50-150		06/22/2022 11:09
13C2 PFHxDA	0.99	0.70	71	50-150		06/22/2022 11:09
d3-N-MeFOSA	0.99	0.50	51	10-150		06/22/2022 11:09

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIK
 Lab Sample ID BLANK-99467
 Lab File ID Q220622A_010
 Matrix Soil
 Collected 06/13/2022 15:01
 Received 06/13/2022 15:01
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.07g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.16	6.16	14		06/22/2022 11:09
13C4 PFOA	N/A	N/A	7.41	7.44	16		06/22/2022 11:09
13C2 PFDA	N/A	N/A	8.68	8.74	72		06/22/2022 11:09
13C4 PFOS	N/A	N/A	9.10	9.16	10		06/22/2022 11:09

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.73	4.75	21		06/22/2022 11:09
13C5 PFPeA	N/A	N/A	5.52	5.53	20		06/22/2022 11:09
13C3 PFBS	N/A	N/A	6.38	6.39	12		06/22/2022 11:09
13C2 4:2FTS	N/A	N/A	5.89	5.90	65		06/22/2022 11:09
13C5 PFHxA	N/A	N/A	6.16	6.17	88		06/22/2022 11:09
13C4 PFHpA	N/A	N/A	6.78	6.80	15		06/22/2022 11:09
13C3 PFHxS	N/A	N/A	7.77	7.81	13		06/22/2022 11:09
13C2 6:2FTS	N/A	N/A	7.08	7.10	91	R	06/22/2022 11:09
13C8 PFOA	N/A	N/A	7.41	7.43	14		06/22/2022 11:09
13C9 PFNA	N/A	N/A	8.04	8.08	17		06/22/2022 11:09
13C8 PFOS	N/A	N/A	9.11	9.17	94		06/22/2022 11:09
13C2 8:2FTS	N/A	N/A	8.32	8.38	94	R	06/22/2022 11:09
13C6 PFDA	N/A	N/A	8.68	8.75	14		06/22/2022 11:09
d3-MeFOSAA	N/A	N/A	8.60	8.65	13	R	06/22/2022 11:09
13C8 PFOSA	N/A	N/A	11.17	11.18	90		06/22/2022 11:09
d5-EtFOSAA	N/A	N/A	8.89	8.95	67	R	06/22/2022 11:09
13C7 PFUdA	N/A	N/A	9.33	9.40	14		06/22/2022 11:09
13C2 PFDoA	N/A	N/A	9.98	10.05	83		06/22/2022 11:09
13C2 PFTeDA	N/A	N/A	11.23	11.30	11		06/22/2022 11:09
13C3 HFPO-DA	N/A	N/A	6.41	6.43	62		06/22/2022 11:09
13C2 PFHxDA	N/A	N/A	12.32	12.39	12		06/22/2022 11:09
d3-N-MeFOSA	N/A	N/A	13.07	13.07	47		06/22/2022 11:09

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKIK
 Lab Sample ID BLANK-99467
 Lab File ID Q220622A_010
 Matrix Soil
 Collected 06/13/2022 15:01
 Received 06/13/2022 15:01
 Extraction Date 06/14/2022 13:19

Total Amount Extracted 5.07g
 Ical ID 220616A01
 CCal File Q220622A_004
 Ending CCal File Q220622A_016
 Blank File

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.81	4.77	ND		06/22/2022 11:09
PFPeA	N/A	N/A	5.53	5.54	ND		06/22/2022 11:09
HFPO-DA	0.00	0.55	0.00	6.44	ND		06/22/2022 11:09
PFBS	0.88	0.37	6.37	6.40	ND		06/22/2022 11:09
PFHxA	0.00	0.09	0.00	6.17	ND		06/22/2022 11:09
4:2 FTS	0.00	1.00	0.00	5.91	ND		06/22/2022 11:09
PFPeS	0.00	0.37	0.00	7.12	ND		06/22/2022 11:09
PFHpA	0.00	0.48	0.00	6.81	ND		06/22/2022 11:09
DONA	0.00	0.49	0.00	7.04	ND		06/22/2022 11:09
PFHxS	0.00	0.32	7.77	7.82	ND		06/22/2022 11:09
PFOA	0.00	0.26	0.00	7.44	ND		06/22/2022 11:09
6:2 FTS	1.40	1.30	7.09	7.12	ND		06/22/2022 11:09
PFHpS	0.00	0.26	0.00	8.51	ND		06/22/2022 11:09
PFNA	0.00	0.24	0.00	8.10	ND		06/22/2022 11:09
PFOSAm	N/A	N/A	11.19	11.19	ND		06/22/2022 11:09
PFOS	0.12	0.20	9.11	9.18	ND		06/22/2022 11:09
MeFOSA	0.00	0.47	0.00	13.09	ND		06/22/2022 11:09
PFDA	0.00	0.21	0.00	8.75	ND		06/22/2022 11:09
8:2 FTS	0.00	1.50	0.00	8.38	ND		06/22/2022 11:09
9-Cl-PF3ON	0.00	0.06	0.00	9.66	ND		06/22/2022 11:09
PFNS	0.00	0.25	0.00	9.83	ND		06/22/2022 11:09
PFUnDA	0.00	0.17	0.00	9.40	ND		06/22/2022 11:09
NMeFOSAA	0.00	0.88	0.00	8.66	ND		06/22/2022 11:09
NEtFOSAA	0.00	0.47	0.00	8.96	ND		06/22/2022 11:09
PFDS	0.00	0.27	0.00	10.47	ND		06/22/2022 11:09
PFDOA	0.00	0.19	0.00	10.05	ND		06/22/2022 11:09
11-Cl-PF3OUdS	0.00	0.02	0.00	10.92	ND		06/22/2022 11:09
PFTrDA	0.00	0.21	0.00	10.69	ND		06/22/2022 11:09
PFTDA	0.00	0.17	0.00	11.30	ND		06/22/2022 11:09

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKNC
 Lab Sample ID BLANK-99818
 Lab File ID Q220708A_005
 Matrix Soil
 Collected 07/05/2022 09:54
 Received 07/05/2022 09:54
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.04g
 Ical ID 220629B01
 CCal File Q220708A_003
 Ending CCal File Q220708A_008
 Blank File

Compound	Concentration (ug/Kg)	QL (ug/Kg)	RL (ug/Kg)	MDL (ug/Kg)	Dil.	CAS No.	Qual.	Analyzed
PFBA	ND	0.099	0.099	0.028	1	375-22-4		07/08/2022 09:38
PFPeA	ND	0.099	0.099	0.028	1	2706-90-3		07/08/2022 09:38
HFPO-DA	ND	0.099	0.099	0.028	1	13252-13-6		07/08/2022 09:38
PFBS	ND	0.088	0.088	0.026	1	375-73-5		07/08/2022 09:38
PFHxA	ND	0.099	0.099	0.027	1	307-24-4		07/08/2022 09:38
4:2 FTS	ND	0.093	0.093	0.023	1	757124-72-4		07/08/2022 09:38
PFPeS	ND	0.093	0.093	0.024	1	2706-91-4		07/08/2022 09:38
PFHpA	ND	0.099	0.099	0.034	1	375-85-9		07/08/2022 09:38
DONA	ND	0.094	0.094	0.036	1	919005-14-4		07/08/2022 09:38
PFHxS	ND	0.090	0.090	0.022	1	355-46-4		07/08/2022 09:38
PFOA	ND	0.099	0.099	0.031	1	335-67-1		07/08/2022 09:38
6:2 FTS	ND	0.094	0.094	0.041	1	27619-97-2		07/08/2022 09:38
PFHpS	ND	0.094	0.094	0.028	1	375-92-8		07/08/2022 09:38
PFNA	ND	0.099	0.099	0.031	1	375-95-1		07/08/2022 09:38
PFOSAm	ND	0.099	0.099	0.029	1	754-91-6		07/08/2022 09:38
PFOS	ND	0.092	0.092	0.029	1	1763-23-1		07/08/2022 09:38
MeFOSA	ND	0.099	0.099	0.027	1	31506-32-8		07/08/2022 09:38
PFDA	ND	0.099	0.099	0.023	1	335-76-2		07/08/2022 09:38
8:2 FTS	ND	0.095	0.095	0.044	1	39108-34-4		07/08/2022 09:38
9-CI-PF3ON	ND	0.092	0.092	0.025	1	756426-58-1		07/08/2022 09:38
PFNS	ND	0.095	0.095	0.034	1	68259-12-1		07/08/2022 09:38
PFUnDA	ND	0.099	0.099	0.030	1	2058-94-8		07/08/2022 09:38
NMeFOSAA	ND	0.099	0.099	0.028	1	2355-31-9		07/08/2022 09:38
NEtFOSAA	ND	0.099	0.099	0.040	1	2991-50-6		07/08/2022 09:38
PFDS	ND	0.096	0.096	0.028	1	335-77-3		07/08/2022 09:38
PFDOA	ND	0.099	0.099	0.033	1	307-55-1		07/08/2022 09:38
11-CI-PF3OUdS	ND	0.093	0.093	0.025	1	763051-92-9		07/08/2022 09:38
PFTTrDA	ND	0.099	0.099	0.032	1	72629-94-8		07/08/2022 09:38
PFTDA	ND	0.099	0.099	0.034	1	376-06-7		07/08/2022 09:38

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKNC
 Lab Sample ID BLANK-99818
 Lab File ID Q220708A_005
 Matrix Soil
 Collected 07/05/2022 09:54
 Received 07/05/2022 09:54
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.04g
 Ical ID 220629B01
 CCal File Q220708A_003
 Ending CCal File Q220708A_008
 Blank File

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C2 PFHxA	0.99	0.83	84	50-150		07/08/2022 09:38
13C4 PFOA	0.99	0.84	85	50-150		07/08/2022 09:38
13C2 PFDA	0.99	0.88	88	50-150		07/08/2022 09:38
13C4 PFOS	0.95	0.81	85	50-150		07/08/2022 09:38

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	Analyzed
13C4 PFBA	0.99	0.91	92	50-150		07/08/2022 09:38
13C5 PFPeA	0.99	0.86	86	50-150		07/08/2022 09:38
13C3 PFBS	0.92	0.78	84	50-150		07/08/2022 09:38
13C2 4:2FTS	0.93	0.70	76	50-150		07/08/2022 09:38
13C5 PFHxA	0.99	0.86	87	50-150		07/08/2022 09:38
13C4 PFHpA	0.99	0.91	92	50-150		07/08/2022 09:38
13C3 PFHxS	0.94	0.83	88	50-150		07/08/2022 09:38
13C2 6:2FTS	0.94	0.80	85	50-150		07/08/2022 09:38
13C8 PFOA	0.99	0.85	85	50-150		07/08/2022 09:38
13C9 PFNA	0.99	0.82	83	50-150		07/08/2022 09:38
13C8 PFOS	0.95	0.92	97	50-150		07/08/2022 09:38
13C2 8:2FTS	0.95	0.79	83	50-150		07/08/2022 09:38
13C6 PFDA	0.99	0.81	81	50-150		07/08/2022 09:38
d3-MeFOSAA	0.99	0.91	92	50-150		07/08/2022 09:38
13C8 PFOSA	0.99	0.77	78	50-150		07/08/2022 09:38
d5-EtFOSAA	0.99	0.73	74	50-150		07/08/2022 09:38
13C7 PFUdA	0.99	0.83	83	50-150		07/08/2022 09:38
13C2 PFDoA	0.99	0.72	73	50-150		07/08/2022 09:38
13C2 PFTeDA	0.99	0.76	76	50-150		07/08/2022 09:38
13C3 HFPO-DA	0.99	0.82	83	50-150		07/08/2022 09:38
13C2 PFHxDA	0.99	0.77	78	50-150		07/08/2022 09:38
d3-N-MeFOSA	0.99	0.71	72	10-150		07/08/2022 09:38

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID BLKNC
 Lab Sample ID BLANK-99818
 Lab File ID Q220708A_005
 Matrix Soil
 Collected 07/05/2022 09:54
 Received 07/05/2022 09:54
 Extraction Date 07/05/2022 11:39

Total Amount Extracted 5.04g
 Ical ID 220629B01
 CCal File Q220708A_003
 Ending CCal File Q220708A_008
 Blank File

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C2 PFHxA	N/A	N/A	6.24	6.25	19		07/08/2022 09:38
13C4 PFOA	N/A	N/A	7.54	7.59	15		07/08/2022 09:38
13C2 PFDA	N/A	N/A	8.84	8.83	20		07/08/2022 09:38
13C4 PFOS	N/A	N/A	9.26	9.26	12		07/08/2022 09:38

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
13C4 PFBA	N/A	N/A	4.72	4.75	25		07/08/2022 09:38
13C5 PFPeA	N/A	N/A	5.55	5.53	21		07/08/2022 09:38
13C3 PFBS	N/A	N/A	6.46	6.42	14		07/08/2022 09:38
13C2 4:2FTS	N/A	N/A	5.96	5.93	51		07/08/2022 09:38
13C5 PFHxA	N/A	N/A	6.24	6.25	14		07/08/2022 09:38
13C4 PFHpA	N/A	N/A	6.89	6.87	14		07/08/2022 09:38
13C3 PFHxS	N/A	N/A	7.91	7.97	12		07/08/2022 09:38
13C2 6:2FTS	N/A	N/A	7.21	7.19	25		07/08/2022 09:38
13C8 PFOA	N/A	N/A	7.53	7.59	17		07/08/2022 09:38
13C9 PFNA	N/A	N/A	8.19	8.25	16		07/08/2022 09:38
13C8 PFOS	N/A	N/A	9.27	9.34	21		07/08/2022 09:38
13C2 8:2FTS	N/A	N/A	8.48	8.54	30		07/08/2022 09:38
13C6 PFDA	N/A	N/A	8.84	8.92	12		07/08/2022 09:38
d3-MeFOSAA	N/A	N/A	8.75	8.72	29		07/08/2022 09:38
13C8 PFOSA	N/A	N/A	11.34	11.32	31		07/08/2022 09:38
d5-EtFOSAA	N/A	N/A	9.06	9.03	38		07/08/2022 09:38
13C7 PFUdA	N/A	N/A	9.50	9.46	25		07/08/2022 09:38
13C2 PFDoA	N/A	N/A	10.16	10.12	71		07/08/2022 09:38
13C2 PFTeDA	N/A	N/A	11.42	11.40	10		07/08/2022 09:38
13C3 HFPO-DA	N/A	N/A	6.51	6.48	13		07/08/2022 09:38
13C2 PFHxDA	N/A	N/A	12.51	12.53	18		07/08/2022 09:38
d3-N-MeFOSA	N/A	N/A	13.23	13.21	84		07/08/2022 09:38

REPORT OF LABORATORY ANALYSIS

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Method Blank Analysis Summary
 PFAS by Isotope Dilution

Client Sample ID	BLKNC	Total Amount Extracted	5.04g
Lab Sample ID	BLANK-99818	Ical ID	220629B01
Lab File ID	Q220708A_005	CCal File	Q220708A_003
Matrix	Soil	Ending CCal File	Q220708A_008
Collected	07/05/2022 09:54	Blank File	
Received	07/05/2022 09:54		
Extraction Date	07/05/2022 11:39		

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers	Analyzed
PFBA	N/A	N/A	4.77	4.77	ND		07/08/2022 09:38
PFPeA	N/A	N/A	5.56	5.54	ND		07/08/2022 09:38
HFPO-DA	0.96	0.46	6.52	6.52	ND		07/08/2022 09:38
PFBS	0.25	0.29	6.47	6.43	ND		07/08/2022 09:38
PFHxA	0.09	0.08	6.25	6.21	ND		07/08/2022 09:38
4:2 FTS	0.00	1.10	0.00	5.98	ND		07/08/2022 09:38
PFPeS	0.35	0.45	7.20	7.22	ND		07/08/2022 09:38
PFHpA	0.56	0.39	6.90	6.81	ND		07/08/2022 09:38
DONA	0.22	0.44	7.14	7.18	ND		07/08/2022 09:38
PFHxS	0.48	0.28	7.91	7.89	ND		07/08/2022 09:38
PFOA	0.15	0.32	7.54	7.51	ND		07/08/2022 09:38
6:2 FTS	1.10	1.50	7.21	7.17	ND		07/08/2022 09:38
PFHpS	0.00	0.38	0.00	8.57	ND		07/08/2022 09:38
PFNA	0.00	0.24	0.00	8.16	ND		07/08/2022 09:38
PFOSAm	N/A	N/A	11.36	11.33	ND		07/08/2022 09:38
PFOS	0.00	0.22	9.31	9.24	ND		07/08/2022 09:38
MeFOSA	0.00	0.46	0.00	13.23	ND		07/08/2022 09:38
PFDA	0.00	0.14	0.00	8.82	ND		07/08/2022 09:38
8:2 FTS	0.00	1.30	0.00	8.45	ND		07/08/2022 09:38
9-Cl-PF3ON	0.00	0.04	9.77	9.72	ND		07/08/2022 09:38
PFNS	0.00	0.23	0.00	9.90	ND		07/08/2022 09:38
PFUnDA	0.00	0.14	0.00	9.47	ND		07/08/2022 09:38
NMeFOSAA	0.00	0.91	0.00	8.73	ND		07/08/2022 09:38
NEtFOSAA	2.60	0.55	8.91	9.04	ND		07/08/2022 09:38
PFDS	0.00	0.30	0.00	10.55	ND		07/08/2022 09:38
PFDOA	0.00	0.21	0.00	10.13	ND		07/08/2022 09:38
11-Cl-PF3OUdS	0.00	0.03	0.00	11.01	ND		07/08/2022 09:38
PFTrDA	0.00	0.18	0.00	10.77	ND		07/08/2022 09:38
PFTDA	0.00	0.20	0.00	11.40	ND		07/08/2022 09:38

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99288	Instrument ID	10LCMS02
Run File Name	B220613B_008	Column ID	125GA90033
Analyzed	06/13/2022 16:54	Ical ID	220613A02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	21	23	110	50-150	
13C4_PFOA	21	23	111	50-150	
13C2_PFDA	21	22	107	50-150	
13C4_PFOS	20	22	113	50-150	

Extracted Internal Standards

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	21	25	118	50-150	
13C5_PFPeA	21	25	119	50-150	
13C3_PFBFS	19	22	116	50-150	
13C2_4:2FTS	19	21	110	50-150	
13C5_PFHxA	21	24	114	50-150	
13C4_PFHpA	21	25	120	50-150	
13C3_PFHxS	20	22	113	50-150	
13C2_6:2FTS	20	22	114	50-150	
13C8_PFOA	21	22	107	50-150	
13C9_PFNA	21	21	103	50-150	
13C8_PFOS	20	19	97	50-150	
13C2_8:2FTS	20	19	97	50-150	
13C6_PFDA	21	20	97	50-150	
d3-MeFOSAA	21	15	72	50-150	
13C8_PFOSA	21	6.0	29	50-150	R
d5-EtFOSAA	21	13	62	50-150	
13C7_PFUdA	21	15	71	50-150	
13C2_PFDaA	21	13	63	50-150	
13C2_PFTeDA	21	11	53	50-150	
13C3_HFPO-DA	21	24	117	50-150	
13C2_PFHxDA	21	9.4	46	50-150	R
d3-N-MeFOSA	21	0.047	0	10-150	R

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99288
 Run File Name B220613B_008
 Analyzed 06/13/2022 16:54
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level L

Native Analytes

Compound	Known Conc. ng/L	Conc. Found ng/L	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	4.1	4.5	108	73-129		375-22-4
PFPeA	4.1	4.4	106	72-129		2706-90-3
HFPO-DA	4.1	4.2	102	70-140		13252-13-6
PFBS	3.7	3.6	98	72-130		375-73-5
PFHxA	4.1	4.6	111	72-129		307-24-4
4:2 FTS	3.9	3.8	98	63-143		757124-72-4
PFPeS	3.9	3.7	95	71-127		2706-91-4
PFHpA	4.1	4.4	107	72-130		375-85-9
DONA	3.9	4.3	111	70-140		919005-14-4
PFHxS	3.8	3.7	98	68-131		355-46-4
PFOA	4.1	4.4	106	71-133		335-67-1
6:2 FTS	3.9	5.0	126	64-140		27619-97-2
PFHpS	3.9	4.1	103	69-134		375-92-8
PFNA	4.1	4.1	99	69-130		375-95-1
PFOSAm	4.1	4.1	100	67-137		754-91-6
PFOS	3.8	3.6	95	65-140		1763-23-1
MeFOSA	4.1	4.4	106	68-141		31506-32-8
PFDA	4.1	4.8	116	71-129		335-76-2
8:2 FTS	4.0	3.8	96	67-138		39108-34-4
9-CI-PF3ON	3.9	3.7	95	70-130		756426-58-1
PFNS	4.0	3.2	80	69-127		68259-12-1
PFUnDA	4.1	4.4	106	69-133		2058-94-8
NMeFOSAA	4.1	3.5	85	65-136		2355-31-9
NEtFOSAA	4.1	3.8	92	61-135		2991-50-6
PFDS	4.0	2.4	61	53-142		335-77-3
PFDOA	4.1	3.9	95	72-134		307-55-1
11-CI-PF3OUdS	3.9	2.3	59	70-140	R	763051-92-9
PFTTrDA	4.1	3.4	83	65-144		72629-94-8
PFTDA	4.1	4.1	98	71-132		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.73	5.73	1794	
13C4 PFOA	N/A	N/A	7.05	7.04	1819	
13C2 PFDA	N/A	N/A	8.40	8.39	1317	
13C4 PFOS	N/A	N/A	8.88	8.88	1367	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99288
 Run File Name B220613B_008
 Analyzed 06/13/2022 16:54
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.35	4.37	2775	
13C5 PFPeA	N/A	N/A	5.10	5.15	2705	
13C3 PFBS	N/A	N/A	5.99	5.99	1539	
13C2 4:2FTS	N/A	N/A	5.47	5.46	608	
13C5 PFHxA	N/A	N/A	5.74	5.73	1587	
13C4 PFHpA	N/A	N/A	6.39	6.38	1849	
13C3 PFHxS	N/A	N/A	7.47	7.47	1572	
13C2 6:2FTS	N/A	N/A	6.70	6.70	12242	
13C8 PFOA	N/A	N/A	7.05	7.04	1686	
13C9 PFNA	N/A	N/A	7.72	7.71	1997	
13C8 PFOS	N/A	N/A	8.88	8.88	1813	
13C2 8:2FTS	N/A	N/A	8.01	8.01	10889	
13C6 PFDA	N/A	N/A	8.40	8.40	1223	
d3-MeFOSAA	N/A	N/A	8.26	8.26	1676	
13C8 PFOSA	N/A	N/A	10.63	10.63	1138	R
d5-EtFOSAA	N/A	N/A	8.56	8.56	653	
13C7 PFUdA	N/A	N/A	9.08	9.08	1498	
13C2 PFDoA	N/A	N/A	9.76	9.76	1051	
13C2 PFTeDA	N/A	N/A	11.08	11.07	1300	
13C3 HFPO-DA	N/A	N/A	6.01	6.00	1494	
13C2 PFHxDA	N/A	N/A	12.26	12.25	1622	R
d3-N-MeFOSA	N/A	N/A	12.56	12.56	34	R

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99288
 Run File Name B220613B_008
 Analyzed 06/13/2022 16:54
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220613A02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.36	4.36	201	
PFPeA	N/A	N/A	5.11	5.14	424	
HFPO-DA	0.27	0.29	6.02	6.02	1019	
PFBS	0.41	0.38	6.00	6.00	1436	
PFHxA	0.08	0.08	5.74	5.74	457	
4:2 FTS	0.93	0.90	5.47	5.47	2168	
PFPeS	0.42	0.39	6.75	6.75	1134	
PFHpA	0.29	0.29	6.40	6.39	22	
DONA	0.57	0.64	6.63	6.63	1698	
PFHxS	0.34	0.34	7.48	7.47	1040	
PFOA	0.36	0.36	7.06	7.05	234	
6:2 FTS	0.92	0.90	6.70	6.70	910	
PFHpS	0.44	0.41	8.19	8.19	5955	
PFNA	0.14	0.14	7.72	7.72	597	
PFOSAm	N/A	N/A	10.64	10.64	544	
PFOS	0.39	0.38	8.89	8.88	351	
MeFOSA	0.54	0.62	12.60	12.59	435	
PFDA	0.17	0.15	8.41	8.41	341	
8:2 FTS	0.83	0.91	8.01	8.01	497	
9-CI-PF3ON	0.06	0.07	9.39	9.38	1018	
PFNS	0.48	0.45	9.58	9.57	1396	
PFUnDA	0.14	0.13	9.09	9.08	337	
NMeFOSAA	0.87	0.81	8.27	8.27	13938	
NEtFOSAA	0.72	0.67	8.57	8.58	158	
PFDS	0.36	0.34	10.25	10.24	1202	
PFDOA	0.17	0.20	9.77	9.76	335	
11-CI-PF3OUdS	0.02	0.02	10.72	10.72	823	R
PFTTrDA	0.17	0.17	10.44	10.43	293	
PFTDA	0.24	0.28	11.09	11.08	232	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99468	Instrument ID	10LCMS02
Run File Name	B220622B_037	Column ID	125GA90033
Analyzed	06/22/2022 22:15	Ical ID	220621B02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C2 PFHxA	0.98	1.1	108	50-150	
13C4 PFOA	0.98	1.1	110	50-150	
13C2 PFDA	0.98	1.2	122	50-150	
13C4 PFOS	0.94	0.90	95	50-150	

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4 PFBA	0.98	0.97	99	50-150	
13C5 PFPeA	0.98	0.98	100	50-150	
13C3 PFBS	0.91	0.94	103	50-150	
13C2 4:2FTS	0.92	0.88	95	50-150	
13C5 PFHxA	0.98	0.96	98	50-150	
13C4 PFHpA	0.98	0.96	98	50-150	
13C3 PFHxS	0.93	0.93	100	50-150	
13C2 6:2FTS	0.93	0.94	101	50-150	
13C8 PFOA	0.98	1.0	103	50-150	
13C9 PFNA	0.98	0.98	100	50-150	
13C8 PFOS	0.94	0.88	93	50-150	
13C2 8:2FTS	0.94	0.85	90	50-150	
13C6 PFDA	0.98	1.1	116	50-150	
d3-MeFOSAA	0.98	0.87	89	50-150	
13C8 PFOSA	0.98	0.97	99	50-150	
d5-EtFOSAA	0.98	0.87	89	50-150	
13C7 PFUdA	0.98	0.92	94	50-150	
13C2 PFDoA	0.98	0.99	101	50-150	
13C2 PFTeDA	0.98	0.89	91	50-150	
13C3 HFPO-DA	0.98	0.97	98	50-150	
13C2 PFHxDA	0.98	1.1	108	50-150	
d3-N-MeFOSA	0.98	0.081	8	10-150	R

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99468
 Run File Name B220622B_037
 Analyzed 06/22/2022 22:15
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.31	159	71-135	R	375-22-4
PFPeA	0.20	0.31	157	69-132	R	2706-90-3
HFPO-DA	0.20	0.31	158	70-140	R	13252-13-6
PFBS	0.17	0.28	163	72-128	R	375-73-5
PFHxA	0.20	0.32	164	70-132	R	307-24-4
4:2 FTS	0.18	0.28	154	62-145	R	757124-72-4
PFPeS	0.18	0.25	135	73-123	R	2706-91-4
PFHpA	0.20	0.34	172	71-131	R	375-85-9
DONA	0.19	0.28	150	70-140	R	919005-14-4
PFHxS	0.18	0.26	145	67-130	R	355-46-4
PFOA	0.20	0.30	151	69-133	R	335-67-1
6:2 FTS	0.19	0.28	148	64-140	R	27619-97-2
PFHpS	0.19	0.30	161	70-132	R	375-92-8
PFNA	0.20	0.32	163	72-129	R	375-95-1
PFOSAm	0.20	0.31	156	67-137	R	754-91-6
PFOS	0.18	0.27	148	68-136	R	1763-23-1
MeFOSA	0.20	0.30	150	70-140	R	31506-32-8
PFDA	0.20	0.29	149	69-133	R	335-76-2
8:2 FTS	0.19	0.29	154	65-137	R	39108-34-4
9-CI-PF3ON	0.18	0.27	150	70-140	R	756426-58-1
PFNS	0.19	0.30	159	69-125	R	68259-12-1
PFUnDA	0.20	0.30	153	64-136	R	2058-94-8
NMeFOSAA	0.20	0.31	157	63-144	R	2355-31-9
NEtFOSAA	0.20	0.29	148	61-139	R	2991-50-6
PFDS	0.19	0.29	156	59-134	R	335-77-3
PFDOA	0.20	0.30	153	69-135	R	307-55-1
11-CI-PF3OUdS	0.18	0.30	161	70-140	R	763051-92-9
PFTTrDA	0.20	0.30	154	66-139	R	72629-94-8
PFTDA	0.20	0.30	150	69-133	R	376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.85	5.81	2125	
13C4 PFOA	N/A	N/A	7.21	7.17	2570	
13C2 PFDA	N/A	N/A	8.56	8.54	3390	
13C4 PFOS	N/A	N/A	9.04	9.01	2272	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99468
 Run File Name B220622B_037
 Analyzed 06/22/2022 22:15
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.37	4.38	2863	
13C5 PFPeA	N/A	N/A	5.17	5.16	2865	
13C3 PFBS	N/A	N/A	6.11	6.13	2579	
13C2 4:2FTS	N/A	N/A	5.57	5.52	494	
13C5 PFHxA	N/A	N/A	5.85	5.84	1953	
13C4 PFHpA	N/A	N/A	6.53	6.49	2306	
13C3 PFHxS	N/A	N/A	7.63	7.59	2707	
13C2 6:2FTS	N/A	N/A	6.85	6.82	1853	
13C8 PFOA	N/A	N/A	7.21	7.17	2671	
13C9 PFNA	N/A	N/A	7.89	7.85	2472	
13C8 PFOS	N/A	N/A	9.03	9.01	2288	
13C2 8:2FTS	N/A	N/A	8.18	8.15	8469	
13C6 PFDA	N/A	N/A	8.56	8.54	2369	
d3-MeFOSAA	N/A	N/A	8.43	8.40	1385	
13C8 PFOSA	N/A	N/A	10.80	10.77	3006	
d5-EtFOSAA	N/A	N/A	8.73	8.71	1540	
13C7 PFUdA	N/A	N/A	9.23	9.22	3711	
13C2 PFDoA	N/A	N/A	9.91	9.90	1534	
13C2 PFTeDA	N/A	N/A	11.22	11.21	2177	
13C3 HFPO-DA	N/A	N/A	6.13	6.13	1688	
13C2 PFHxDA	N/A	N/A	12.37	12.36	4035	
d3-N-MeFOSA	N/A	N/A	12.69	12.66	410	R

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99468
 Run File Name B220622B_037
 Analyzed 06/22/2022 22:15
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.38	4.33	157	R
PFPeA	N/A	N/A	5.18	5.17	604	R
HFPO-DA	0.30	0.29	6.14	6.10	932	R
PFBS	0.40	0.47	6.12	6.07	1043	R
PFHxA	0.09	0.09	5.86	5.82	329	R
4:2 FTS	0.90	0.92	5.58	5.53	6007	R
PFPeS	0.46	0.49	6.90	6.86	2104	R
PFHpA	0.29	0.32	6.53	6.50	21	R
DONA	0.59	0.63	6.78	6.75	2182	R
PFHxS	0.38	0.37	7.64	7.60	2271	R
PFOA	0.40	0.40	7.21	7.18	255	R
6:2 FTS	0.90	0.91	6.85	6.82	1073	R
PFHpS	0.39	0.39	8.36	8.32	1329	R
PFNA	0.14	0.15	7.89	7.86	771	R
PFOSAm	N/A	N/A	10.81	10.78	632	R
PFOS	0.41	0.40	9.05	9.03	472	R
MeFOSA	0.59	0.57	12.71	12.69	455	R
PFDA	0.19	0.18	8.57	8.54	460	R
8:2 FTS	1.00	0.95	8.18	8.15	4316113	R
9-CI-PF3ON	0.07	0.07	9.55	9.52	1348	R
PFNS	0.45	0.51	9.74	9.71	1360	R
PFUnDA	0.15	0.15	9.24	9.22	633	R
NMeFOSAA	0.77	0.85	8.44	8.41	1547	R
NEtFOSAA	0.67	0.64	8.74	8.72	356	R
PFDS	0.35	0.35	10.40	10.37	1892	R
PFDOA	0.17	0.17	9.92	9.90	547	R
11-CI-PF3OUdS	0.02	0.02	10.87	10.85	1308	R
PFTTrDA	0.15	0.16	10.59	10.57	551	R
PFTDA	0.24	0.24	11.23	11.21	463	R

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99470	Instrument ID	10LCMS02
Run File Name	B220622B_038	Column ID	125GA90033
Analyzed	06/22/2022 22:35	Ical ID	220621B02
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	1.0	1.1	109	50-150	
13C4_PFOA	1.0	1.0	104	50-150	
13C2_PFDA	1.0	1.1	112	50-150	
13C4_PFOS	0.96	0.97	101	50-150	

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	1.0	0.82	82	50-150	
13C5_PFPeA	1.0	0.86	86	50-150	
13C3_PFBFS	0.93	0.74	79	50-150	
13C2_4:2FTS	0.94	0.77	82	50-150	
13C5_PFHxA	1.0	0.86	86	50-150	
13C4_PFHpA	1.0	0.80	80	50-150	
13C3_PFHxS	0.95	0.75	80	50-150	
13C2_6:2FTS	0.95	0.75	79	50-150	
13C8_PFOA	1.0	0.83	83	50-150	
13C9_PFNA	1.0	0.80	80	50-150	
13C8_PFOS	0.96	0.74	77	50-150	
13C2_8:2FTS	0.96	0.71	74	50-150	
13C6_PFDA	1.0	0.87	87	50-150	
d3-MeFOSAA	1.0	0.68	68	50-150	
13C8_PFOSA	1.0	0.82	82	50-150	
d5-EtFOSAA	1.0	0.75	75	50-150	
13C7_PFUdA	1.0	0.77	77	50-150	
13C2_PFDaA	1.0	0.87	87	50-150	
13C2_PFTeDA	1.0	0.76	76	50-150	
13C3_HFPO-DA	1.0	0.85	85	50-150	
13C2_PFHxDA	1.0	0.76	76	50-150	
d3-N-MeFOSA	1.0	0.77	77	10-150	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99470
 Run File Name B220622B_038
 Analyzed 06/22/2022 22:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.18	90	71-135		375-22-4
PFPeA	0.20	0.18	89	69-132		2706-90-3
HFPO-DA	0.20	0.18	91	70-140		13252-13-6
PFBS	0.18	0.16	93	72-128		375-73-5
PFHxA	0.20	0.17	87	70-132		307-24-4
4:2 FTS	0.19	0.16	88	62-145		757124-72-4
PFPeS	0.19	0.15	78	73-123		2706-91-4
PFHpA	0.20	0.20	98	71-131		375-85-9
DONA	0.19	0.17	90	70-140		919005-14-4
PFHxS	0.18	0.16	88	67-130		355-46-4
PFOA	0.20	0.17	85	69-133		335-67-1
6:2 FTS	0.19	0.17	90	64-140		27619-97-2
PFHpS	0.19	0.15	80	70-132		375-92-8
PFNA	0.20	0.17	84	72-129		375-95-1
PFOSAm	0.20	0.17	87	67-137		754-91-6
PFOS	0.18	0.16	85	68-136		1763-23-1
MeFOSA	0.20	0.16	78	70-140		31506-32-8
PFDA	0.20	0.18	88	69-133		335-76-2
8:2 FTS	0.19	0.16	82	65-137		39108-34-4
9-CI-PF3ON	0.19	0.15	82	70-140		756426-58-1
PFNS	0.19	0.17	90	69-125		68259-12-1
PFUnDA	0.20	0.18	89	64-136		2058-94-8
NMeFOSAA	0.20	0.18	90	63-144		2355-31-9
NEtFOSAA	0.20	0.16	81	61-139		2991-50-6
PFDS	0.19	0.16	82	59-134		335-77-3
PFDOA	0.20	0.17	85	69-135		307-55-1
11-CI-PF3OUdS	0.19	0.17	89	70-140		763051-92-9
PFTTrDA	0.20	0.18	90	66-139		72629-94-8
PFTDA	0.20	0.16	80	69-133		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.85	5.81	2124	
13C4 PFOA	N/A	N/A	7.19	7.17	2287	
13C2 PFDA	N/A	N/A	8.55	8.54	3967	
13C4 PFOS	N/A	N/A	9.03	9.01	2081	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99470
 Run File Name B220622B_038
 Analyzed 06/22/2022 22:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.37	4.38	2913	
13C5 PFPeA	N/A	N/A	5.18	5.16	2340	
13C3 PFBS	N/A	N/A	6.11	6.13	2221	
13C2 4:2FTS	N/A	N/A	5.58	5.52	639	
13C5 PFHxA	N/A	N/A	5.85	5.84	2041	
13C4 PFHpA	N/A	N/A	6.52	6.49	1770	
13C3 PFHxS	N/A	N/A	7.62	7.59	1870	
13C2 6:2FTS	N/A	N/A	6.84	6.82	1636	
13C8 PFOA	N/A	N/A	7.20	7.17	2714	
13C9 PFNA	N/A	N/A	7.87	7.85	2246	
13C8 PFOS	N/A	N/A	9.03	9.01	2728	
13C2 8:2FTS	N/A	N/A	8.17	8.15	55979	
13C6 PFDA	N/A	N/A	8.55	8.54	2268	
d3-MeFOSAA	N/A	N/A	8.42	8.40	1658	
13C8 PFOSA	N/A	N/A	10.80	10.77	3781	
d5-EtFOSAA	N/A	N/A	8.72	8.71	1047	
13C7 PFUdA	N/A	N/A	9.23	9.22	2757	
13C2 PFDoA	N/A	N/A	9.91	9.90	1858	
13C2 PFTeDA	N/A	N/A	11.22	11.21	2082	
13C3 HFPO-DA	N/A	N/A	6.13	6.13	1460	
13C2 PFHxDA	N/A	N/A	12.37	12.36	3084	
d3-N-MeFOSA	N/A	N/A	12.69	12.66	893	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99470
 Run File Name B220622B_038
 Analyzed 06/22/2022 22:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.37	4.33	123	
PFPeA	N/A	N/A	5.18	5.17	384	
HFPO-DA	0.26	0.29	6.14	6.10	697	
PFBS	0.43	0.47	6.12	6.07	814	
PFHxA	0.08	0.09	5.86	5.82	230	
4:2 FTS	0.86	0.92	5.58	5.53	13059	
PFPeS	0.43	0.49	6.89	6.86	1151	
PFHpA	0.30	0.32	6.53	6.50	22	
DONA	0.59	0.63	6.78	6.75	1650	
PFHxS	0.36	0.37	7.63	7.60	1299	
PFOA	0.40	0.40	7.20	7.18	184	
6:2 FTS	0.83	0.91	6.85	6.82	483	
PFHpS	0.41	0.39	8.35	8.32	2202	
PFNA	0.16	0.15	7.88	7.86	686	
PFOSAm	N/A	N/A	10.81	10.78	556	
PFOS	0.42	0.40	9.04	9.03	424	
MeFOSA	0.63	0.57	12.72	12.69	154206	
PFDA	0.17	0.18	8.56	8.54	277	
8:2 FTS	0.99	0.95	8.17	8.15	3375346	
9-CI-PF3ON	0.06	0.07	9.54	9.52	1014	
PFNS	0.49	0.51	9.73	9.71	822	
PFUnDA	0.14	0.15	9.23	9.22	471	
NMeFOSAA	0.93	0.85	8.43	8.41	106	
NEtFOSAA	0.59	0.64	8.73	8.72	248	
PFDS	0.35	0.35	10.40	10.37	1502	
PFDOA	0.17	0.17	9.91	9.90	412	
11-CI-PF3OUdS	0.02	0.02	10.87	10.85	889	
PFTTrDA	0.14	0.16	10.59	10.57	429	
PFTDA	0.24	0.24	11.23	11.21	302	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID	LCS-99819	Instrument ID	10LCMS01
Run File Name	Q220708A_006	Column ID	118AB10133
Analyzed	07/08/2022 09:57	Ical ID	220629B01
Injected By	NH	Level	L

Injection Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	0.99	0.75	75	50-150	
13C4_PFOA	0.99	0.76	77	50-150	
13C2_PFDA	0.99	0.80	81	50-150	
13C4_PFOS	0.95	0.74	78	50-150	

Extracted Internal Standards

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers
13C4_PFBFA	0.99	0.75	76	50-150	
13C5_PFPeA	0.99	0.70	70	50-150	
13C3_PFBFS	0.92	0.61	66	50-150	
13C2_4:2FTS	0.93	0.65	70	50-150	
13C5_PFHxA	0.99	0.70	70	50-150	
13C4_PFHpA	0.99	0.76	76	50-150	
13C3_PFHxS	0.94	0.71	76	50-150	
13C2_6:2FTS	0.94	0.62	66	50-150	
13C8_PFOA	0.99	0.74	74	50-150	
13C9_PFNA	0.99	0.70	71	50-150	
13C8_PFOS	0.95	0.81	86	50-150	
13C2_8:2FTS	0.95	0.65	68	50-150	
13C6_PFDA	0.99	0.70	71	50-150	
d3-MeFOSAA	0.99	0.66	67	50-150	
13C8_PFOSA	0.99	0.64	65	50-150	
d5-EtFOSAA	0.99	0.67	68	50-150	
13C7_PFUdA	0.99	0.71	71	50-150	
13C2_PFDaA	0.99	0.69	70	50-150	
13C2_PFTeDA	0.99	0.64	64	50-150	
13C3_HFPO-DA	0.99	0.58	58	50-150	
13C2_PFHxDA	0.99	0.63	63	50-150	
d3-N-MeFOSA	0.99	0.049	5	10-150	R

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99819
 Run File Name Q220708A_006
 Analyzed 07/08/2022 09:57
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220629B01
 Level L

Native Analytes

Compound	Known Conc. ug/Kg	Conc. Found ug/Kg	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	0.20	0.20	103	71-135		375-22-4
PFPeA	0.20	0.22	110	69-132		2706-90-3
HFPO-DA	0.20	0.21	106	70-140		13252-13-6
PFBS	0.18	0.20	112	72-128		375-73-5
PFHxA	0.20	0.22	110	70-132		307-24-4
4:2 FTS	0.19	0.17	91	62-145		757124-72-4
PFPeS	0.19	0.19	100	73-123		2706-91-4
PFHpA	0.20	0.18	92	71-131		375-85-9
DONA	0.19	0.18	98	70-140		919005-14-4
PFHxS	0.18	0.17	97	67-130		355-46-4
PFOA	0.20	0.20	103	69-133		335-67-1
6:2 FTS	0.19	0.19	103	64-140		27619-97-2
PFHpS	0.19	0.19	100	70-132		375-92-8
PFNA	0.20	0.19	96	72-129		375-95-1
PFOSAm	0.20	0.21	108	67-137		754-91-6
PFOS	0.18	0.19	104	68-136		1763-23-1
MeFOSA	0.20	0.18	93	70-140		31506-32-8
PFDA	0.20	0.20	101	69-133		335-76-2
8:2 FTS	0.19	0.18	95	65-137		39108-34-4
9-CI-PF3ON	0.18	0.17	91	70-140		756426-58-1
PFNS	0.19	0.16	86	69-125		68259-12-1
PFUnDA	0.20	0.21	104	64-136		2058-94-8
NMeFOSAA	0.20	0.18	88	63-144		2355-31-9
NEtFOSAA	0.20	0.21	107	61-139		2991-50-6
PFDS	0.19	0.19	98	59-134		335-77-3
PFDOA	0.20	0.18	92	69-135		307-55-1
11-CI-PF3OUdS	0.19	0.17	90	70-140		763051-92-9
PFTTrDA	0.20	0.18	93	66-139		72629-94-8
PFTDA	0.20	0.20	101	69-133		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	6.21	6.25	1221	
13C4 PFOA	N/A	N/A	7.51	7.59	1636	
13C2 PFDA	N/A	N/A	8.84	8.83	1523	
13C4 PFOS	N/A	N/A	9.26	9.26	2111	

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99819
 Run File Name Q220708A_006
 Analyzed 07/08/2022 09:57
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220629B01
 Level L

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.72	4.75	2341	
13C5 PFPeA	N/A	N/A	5.55	5.53	1652	
13C3 PFBS	N/A	N/A	6.43	6.42	1660	
13C2 4:2FTS	N/A	N/A	5.94	5.93	429	
13C5 PFHxA	N/A	N/A	6.21	6.25	1070	
13C4 PFHpA	N/A	N/A	6.86	6.87	1382	
13C3 PFHxS	N/A	N/A	7.89	7.97	1745	
13C2 6:2FTS	N/A	N/A	7.17	7.19	2427	
13C8 PFOA	N/A	N/A	7.51	7.59	1595	
13C9 PFNA	N/A	N/A	8.17	8.25	1284	
13C8 PFOS	N/A	N/A	9.27	9.34	1272	
13C2 8:2FTS	N/A	N/A	8.47	8.54	705	
13C6 PFDA	N/A	N/A	8.84	8.84	1311	
d3-MeFOSAA	N/A	N/A	8.75	8.72	1260	
13C8 PFOSA	N/A	N/A	11.34	11.32	250123	
d5-EtFOSAA	N/A	N/A	9.06	9.03	473	
13C7 PFUdA	N/A	N/A	9.50	9.46	1752	
13C2 PFDoA	N/A	N/A	10.16	10.12	558	
13C2 PFTeDA	N/A	N/A	11.42	11.40	809	
13C3 HFPO-DA	N/A	N/A	6.47	6.48	1069	
13C2 PFHxDA	N/A	N/A	12.51	12.53	1610	
d3-N-MeFOSA	N/A	N/A	13.22	13.21	50775	R

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LCS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID LCS-99819
 Run File Name Q220708A_006
 Analyzed 07/08/2022 09:57
 Injected By NH

Instrument ID 10LCMS01
 Column ID 118AB10133
 Ical ID 220629B01
 Level L

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.73	4.77	146	
PFPeA	N/A	N/A	5.55	5.54	408	
HFPO-DA	0.44	0.46	6.49	6.44	829	
PFBS	0.28	0.29	6.43	6.43	767	
PFHxA	0.08	0.08	6.22	6.21	215	
4:2 FTS	1.10	1.10	5.95	5.98	2191006	
PFPeS	0.35	0.45	7.18	7.22	1476	
PFHpA	0.50	0.39	6.87	6.81	16	
DONA	0.44	0.44	7.10	7.18	804	
PFHxS	0.30	0.28	7.89	7.89	560	
PFOA	0.29	0.32	7.52	7.51	154	
6:2 FTS	1.20	1.50	7.18	7.17	42	
PFHpS	0.36	0.38	8.60	8.57	1245	
PFNA	0.25	0.24	8.18	8.16	330	
PFOSAm	N/A	N/A	11.34	11.33	782	
PFOS	0.21	0.22	9.28	9.24	464	
MeFOSA	0.34	0.46	13.24	13.23	354100	
PFDA	0.18	0.14	8.85	8.82	128	
8:2 FTS	1.40	1.30	8.48	8.45	117236	
9-Cl-PF3ON	0.04	0.04	9.76	9.72	756	
PFNS	0.23	0.23	9.94	9.90	1833	
PFUnDA	0.15	0.14	9.50	9.47	211	
NMeFOSAA	0.93	0.91	8.76	8.73	12126	
NEtFOSAA	0.59	0.55	9.07	9.04	257	
PFDS	0.26	0.30	10.59	10.55	1082	
PFDOA	0.21	0.21	10.17	10.13	239	
11-Cl-PF3OUdS	0.02	0.03	11.04	11.01	756	
PFTTrDA	0.23	0.18	10.81	10.77	238	
PFTDA	0.16	0.20	11.43	11.40	169	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609607021-MS
 Run File Name B220622B_059
 Analyzed 06/23/2022 05:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C2_PFHxA	2.0	0.82	41	50-150	R
13C4_PFOA	2.0	0.85	42	50-150	R
13C2_PFDA	2.0	0.80	40	50-150	R
13C4_PFOS	1.9	1.7	90	50-150	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers
13C4_PFBA	2.0	0.56	28	50-150	R
13C5_PFPeA	2.0	0.59	29	50-150	R
13C3_PFBFS	1.9	1.2	66	50-150	
13C2_4:2FTS	1.9	2.3	121	50-150	
13C5_PFHxA	2.0	0.64	32	50-150	R
13C4_PFHpA	2.0	0.78	39	50-150	R
13C3_PFHxS	1.9	1.2	64	50-150	
13C2_6:2FTS	1.9	3.5	185	50-150	R
13C8_PFOA	2.0	0.75	37	50-150	R
13C9_PFNA	2.0	0.81	40	50-150	R
13C8_PFOS	1.9	1.6	82	50-150	D
13C2_8:2FTS	1.9	2.5	130	50-150	
13C6_PFDA	2.0	0.71	35	50-150	R
d3-MeFOSAA	2.0	0.77	38	50-150	R
13C8_PFOA	2.0	0.57	28	25-150	
d5-EtFOSAA	2.0	0.84	42	50-150	R
13C7_PFUdA	2.0	0.63	31	50-150	R
13C2_PFDaA	2.0	0.54	27	50-150	R
13C2_PFTeDA	2.0	0.36	18	50-150	R
13C3_HFPO-DA	2.0	0.63	31	50-150	R
13C2_PFHxDa	2.0	0.095	5	50-150	R
d3-N-MeFOSA	2.0	0.43	21	10-150	

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MS Analysis Summary
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Lab Sample ID 10609607021-MS
 Run File Name B220622B_059
 Analyzed 06/23/2022 05:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Native Analytes

Compound	Sample Conc.	Known Conc.	Conc. Found	%Recovery	Recovery Limits	Qualifiers	CAS No.
PFBA	1.3	0.40	1.8	134	70-140		375-22-4
PFPeA	6.9	0.40	12	1372	70-140	R	2706-90-3
HFPO-DA	0.00	0.40	0.40	98	70-140		13252-13-6
PFBS	0.89	0.36	1.9	276	70-140	R	375-73-5
PFHxA	6.8	0.40	10	875	70-140	R	307-24-4
4:2 FTS	0.00	0.38	0.34	90	70-140		757124-72-4
PFPeS	1.2	0.38	2.7	383	70-140	R	2706-91-4
PFHpA	3.2	0.40	5.8	649	70-140	R	375-85-9
DONA	0.00	0.38	0.30	79	70-140		919005-14-4
PFHxS	7.2	0.37	10	793	70-140	R	355-46-4
PFOA	2.2	0.40	3.3	270	70-140	R	335-67-1
6:2 FTS	2.9	0.38	3.6	180	70-140	R	27619-97-2
PFHpS	0.33	0.38	0.58	63	70-140	R	375-92-8
PFNA	0.70	0.40	0.99	73	70-140		375-95-1
PFOSAm	0.00	0.40	0.41	102	70-140		754-91-6
PFOS	19 D	0.37	17	0	70-140	RD	1763-23-1
MeFOSA	0.00	0.40	0.40	100	70-140		31506-32-8
PFDA	0.45	0.40	0.78	82	70-140		335-76-2
8:2 FTS	1.4	0.39	1.8	95	70-140		39108-34-4
9-CI-PF3ON	0.00	0.38	0.32	85	70-140		756426-58-1
PFNS	0.00	0.39	0.59	153	70-140	R	68259-12-1
PFUnDA	0.45	0.40	0.85	101	70-140		2058-94-8
NMeFOSAA	0.00	0.40	0.47	116	70-140		2355-31-9
NEtFOSAA	0.00	0.40	0.35	87	70-140		2991-50-6
PFDS	0.00	0.39	0.27	69	70-140	R	335-77-3
PFDOA	0.00	0.40	0.41	101	70-140		307-55-1
11-CI-PF3OUdS	0.00	0.38	0.27	70	70-140	I	763051-92-9
PFTTrDA	0.00	0.40	0.35	87	70-140		72629-94-8
PFTDA	0.00	0.40	0.39	95	70-140		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.87	5.81	1081	R
13C4 PFOA	N/A	N/A	7.22	7.17	1002	R
13C2 PFDA	N/A	N/A	8.53	8.54	597	R
13C4 PFOS	N/A	N/A	9.00	9.01	312	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609607021-MS
 Run File Name B220622B_059
 Analyzed 06/23/2022 05:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.42	4.38	1647	R
13C5 PFPeA	N/A	N/A	5.20	5.16	956	R
13C3 PFBS	N/A	N/A	6.13	6.13	677	
13C2 4:2FTS	N/A	N/A	5.59	5.52	155	
13C5 PFHxA	N/A	N/A	5.87	5.84	549	R
13C4 PFHpA	N/A	N/A	6.54	6.49	704	R
13C3 PFHxS	N/A	N/A	7.63	7.59	637	
13C2 6:2FTS	N/A	N/A	6.87	6.82	250	R
13C8 PFOA	N/A	N/A	7.22	7.17	993	R
13C9 PFNA	N/A	N/A	7.87	7.85	476	R
13C8 PFOS	N/A	N/A	9.01	9.01	234	D
13C2 8:2FTS	N/A	N/A	8.15	8.15	224	
13C6 PFDA	N/A	N/A	8.53	8.54	647	R
d3-MeFOSAA	N/A	N/A	8.40	8.40	361	R
13C8 PFOSA	N/A	N/A	10.81	10.77	1298	
d5-EtFOSAA	N/A	N/A	8.70	8.71	533	R
13C7 PFUdA	N/A	N/A	9.19	9.22	472	R
13C2 PFDoA	N/A	N/A	9.86	9.90	534	R
13C2 PFTeDA	N/A	N/A	11.16	11.21	419	R
13C3 HFPO-DA	N/A	N/A	6.15	6.13	897	R
13C2 PFHxDA	N/A	N/A	12.31	12.36	248	R
d3-N-MeFOSA	N/A	N/A	12.70	12.66	168	

REPORT OF LABORATORY ANALYSIS

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MS Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609607021-MS
 Run File Name B220622B_059
 Analyzed 06/23/2022 05:35
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.42	4.33	72	
PFPeA	N/A	N/A	5.20	5.17	294	R
HFPO-DA	0.27	0.28	6.16	6.10	265	
PFBS	0.43	0.43	6.14	6.07	319	R
PFHxA	0.08	0.09	5.88	5.82	180	R
4:2 FTS	0.84	1.00	5.60	5.60	167	
PFPeS	0.39	0.42	6.92	6.86	342	R
PFHpA	0.29	0.32	6.55	6.50	26	R
DONA	0.61	0.61	6.80	6.75	475	
PFHxS	0.34	0.37	7.64	7.60	600	R
PFOA	0.34	0.37	7.22	7.18	120	R
6:2 FTS	0.80	0.93	6.88	6.82	751	R
PFHpS	0.33	0.39	8.33	8.32	75	R
PFNA	0.12	0.14	7.88	7.86	138	
PFOSAm	N/A	N/A	10.81	10.78	464	
PFOS	0.34	0.40	9.02	9.03	248	RD
MeFOSA	0.48	0.48	12.72	12.69	100	
PFDA	0.16	0.18	8.54	8.54	81	
8:2 FTS	0.96	0.92	8.16	8.15	542	
9-CI-PF3ON	0.06	0.06	9.50	9.52	420	
PFNS	0.27	0.50	9.66	9.71	122	R
PFUnDA	0.10	0.13	9.20	9.22	207	
NMeFOSAA	0.63	0.78	8.41	8.41	137	
NEtFOSAA	0.65	0.60	8.71	8.72	174	
PFDS	0.33	0.36	10.33	10.37	161	R
PFDOA	0.16	0.17	9.87	9.90	160	
11-CI-PF3OUdS	0.04	0.02	10.81	10.85	446	I
PFTTrDA	0.15	0.14	10.52	10.57	195	
PFTDA	0.21	0.23	11.16	11.21	110	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609607021-MSD
 Run File Name B220622B_060
 Analyzed 06/23/2022 05:55
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Injection Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers
13C2_PFHxA	2.0	0.75	38	50-150	7.8	R
13C4_PFOA	2.0	0.80	40	50-150	4.7	R
13C2_PFDA	2.0	0.77	39	50-150	2.6	R
13C4_PFOS	1.9	1.5	79	50-150	12.3	

Extracted Internal Standards

Compound	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers
13C4_PFBa	2.0	0.53	26	50-150	5.7	R
13C5_PFPeA	2.0	0.53	27	50-150	8.9	R
13C3_PFBs	1.9	1.0	56	50-150	16.2	
13C2_4:2Fts	1.9	2.1	112	50-150	8.3	
13C5_PFHxA	2.0	0.61	30	50-150	4.3	R
13C4_PFHpA	2.0	0.71	35	50-150	8.8	R
13C3_PFHxS	1.9	1.1	56	50-150	13.5	
13C2_6:2Fts	1.9	3.1	164	50-150	12.0	R
13C8_PFOA	2.0	0.71	36	50-150	4.0	R
13C9_PFNA	2.0	0.71	36	50-150	12.3	R
13C8_PFOS	1.9	1.3	71	50-150	14.5	D
13C2_8:2Fts	1.9	2.2	113	50-150	14.5	
13C6_PFDA	2.0	0.68	34	50-150	3.0	R
d3-MeFOSAA	2.0	0.72	36	50-150	5.8	R
13C8_PFOsA	2.0	0.48	24	25-150	16.4	R
d5-EtFOSAA	2.0	0.77	39	50-150	8.0	R
13C7_PFUdA	2.0	0.63	32	50-150	1.4	R
13C2_PFDoA	2.0	0.56	28	50-150	5.6	R
13C2_PFTeDA	2.0	0.57	29	50-150	47.3	R
13C3_HFPO-DA	2.0	0.55	28	50-150	11.6	R
13C2_PFHxDa	2.0	0.49	25	50-150	136.0	R
d3-N-MeFOSA	2.0	0.34	17	10-150	20.2	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609607021-MSD
 Run File Name B220622B_060
 Analyzed 06/23/2022 05:55
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Native Analytes

Compound	Sample Conc.	Known Conc.	Conc. Found	%Recovery	Recovery Limits	RPD	Qualifiers	CAS No.
PFBA	1.3	0.40	1.7	95	70-140	8.0		375-22-4
PFPeA	6.9	0.40	9.0	522	70-140	31.1	R	2706-90-3
HFPO-DA	0.00	0.40	0.38	96	70-140	2.4		13252-13-6
PFBS	0.89	0.35	1.3	127	70-140	32.3		375-73-5
PFHxA	6.8	0.40	7.1	59	70-140	36.5	R	307-24-4
4:2 FTS	0.00	0.37	0.35	94	70-140	4.2		757124-72-4
PFPeS	1.2	0.37	1.9	180	70-140	33.1	R	2706-91-4
PFHpA	3.2	0.40	4.4	296	70-140	27.1	R	375-85-9
DONA	0.00	0.38	0.29	78	70-140	0.7		919005-14-4
PFHxS	7.2	0.36	8.0	225	70-140	21.9	R	355-46-4
PFOA	2.2	0.40	2.6	101	70-140	22.2		335-67-1
6:2 FTS	2.9	0.38	2.8	0	70-140	22.4	R	27619-97-2
PFHpS	0.33	0.38	0.57	63	70-140	0.8	R	375-92-8
PFNA	0.70	0.40	1.1	91	70-140	7.9		375-95-1
PFOSAm	0.00	0.40	0.42	106	70-140	3.3		754-91-6
PFOS	19 D	0.37	20	345	70-140	22.4	RD	1763-23-1
MeFOSA	0.00	0.40	0.46	115	70-140	13.7		31506-32-8
PFDA	0.45	0.40	0.78	84	70-140	1.4		335-76-2
8:2 FTS	1.4	0.38	1.6	41	70-140	11.1	R	39108-34-4
9-CI-PF3ON	0.00	0.37	0.33	89	70-140	4.4		756426-58-1
PFNS	0.00	0.38	0.59	155	70-140	1.5	R	68259-12-1
PFUnDA	0.45	0.40	0.93	123	70-140	10.4		2058-94-8
NMeFOSAA	0.00	0.40	0.47	118	70-140	2.0		2355-31-9
NEtFOSAA	0.00	0.40	0.38	97	70-140	10.0		2991-50-6
PFDS	0.00	0.38	0.30	78	70-140	12.2		335-77-3
PFDOA	0.00	0.40	0.41	103	70-140	1.8		307-55-1
11-CI-PF3OUdS	0.00	0.38	0.27	73	70-140	3.7		763051-92-9
PFTTrDA	0.00	0.40	0.43	107	70-140	20.5		72629-94-8
PFTDA	0.00	0.40	0.41	103	70-140	7.4		376-06-7

Injection Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C2 PFHxA	N/A	N/A	5.85	5.81	997	R
13C4 PFOA	N/A	N/A	7.20	7.17	1026	R
13C2 PFDA	N/A	N/A	8.51	8.54	760	R
13C4 PFOS	N/A	N/A	8.99	9.01	276	

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MSD Analysis Summary
 PFAS by Isotope Dilution

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Lab Sample ID 10609607021-MSD
 Run File Name B220622B_060
 Analyzed 06/23/2022 05:55
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Extracted Internal Standards

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
13C4 PFBA	N/A	N/A	4.36	4.38	1473	R
13C5 PFPeA	N/A	N/A	5.17	5.16	1179	R
13C3 PFBS	N/A	N/A	6.11	6.13	486	
13C2 4:2FTS	N/A	N/A	5.57	5.52	168	
13C5 PFHxA	N/A	N/A	5.85	5.84	634	R
13C4 PFHpA	N/A	N/A	6.53	6.49	839	R
13C3 PFHxS	N/A	N/A	7.61	7.59	564	
13C2 6:2FTS	N/A	N/A	6.85	6.82	254	R
13C8 PFOA	N/A	N/A	7.20	7.17	939	R
13C9 PFNA	N/A	N/A	7.85	7.85	444	R
13C8 PFOS	N/A	N/A	9.01	9.01	234	D
13C2 8:2FTS	N/A	N/A	8.14	8.15	193	
13C6 PFDA	N/A	N/A	8.52	8.54	544	R
d3-MeFOSAA	N/A	N/A	8.38	8.40	384	R
13C8 PFOSA	N/A	N/A	10.81	10.77	1364	R
d5-EtFOSAA	N/A	N/A	8.69	8.71	544	R
13C7 PFUdA	N/A	N/A	9.19	9.22	632	R
13C2 PFDoA	N/A	N/A	9.86	9.90	429	R
13C2 PFTeDA	N/A	N/A	11.16	11.21	526	R
13C3 HFPO-DA	N/A	N/A	6.13	6.13	680	R
13C2 PFHxDA	N/A	N/A	12.31	12.36	492	R
d3-N-MeFOSA	N/A	N/A	12.70	12.66	176	

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MSD Analysis Summary
 PFAS by Isotope Dilution

Lab Sample ID 10609607021-MSD
 Run File Name B220622B_060
 Analyzed 06/23/2022 05:55
 Injected By NH

Instrument ID 10LCMS02
 Column ID 125GA90033
 Ical ID 220621B02
 Level

Native Analytes

Compound	Ion Abund. Ratio	Reference Ratio	Retention Time	Reference Time	Signal to Noise	Qualifiers
PFBA	N/A	N/A	4.37	4.33	77	
PFPeA	N/A	N/A	5.18	5.17	261	R
HFPO-DA	0.28	0.28	6.14	6.10	237	
PFBS	0.44	0.43	6.12	6.07	296	
PFHxA	0.08	0.09	5.86	5.82	165	R
4:2 FTS	0.80	1.00	5.58	5.53	195	
PFPeS	0.40	0.42	6.90	6.86	269	R
PFHpA	0.29	0.32	6.53	6.50	23	R
DONA	0.64	0.61	6.78	6.75	555	
PFHxS	0.34	0.37	7.61	7.60	566	R
PFOA	0.34	0.37	7.20	7.18	120	
6:2 FTS	0.86	0.93	6.86	6.82	559	R
PFHpS	0.32	0.39	8.31	8.32	77	R
PFNA	0.12	0.14	7.86	7.86	150	
PFOSAm	N/A	N/A	10.82	10.78	366	
PFOS	0.37	0.40	9.02	9.03	327	RD
MeFOSA	0.43	0.48	12.72	12.69	96	
PFDA	0.17	0.18	8.52	8.54	72	
8:2 FTS	0.95	0.92	8.14	8.15	484	R
9-CI-PF3ON	0.06	0.06	9.50	9.52	454	
PFNS	0.27	0.50	9.66	9.71	113	R
PFUnDA	0.12	0.13	9.19	9.22	203	
NMeFOSAA	0.69	0.78	8.40	8.41	135	
NEtFOSAA	0.61	0.60	8.70	8.72	184	
PFDS	0.33	0.36	10.33	10.37	174	
PFDOA	0.18	0.17	9.86	9.90	194	
11-CI-PF3OUdS	0.03	0.02	10.81	10.85	388	
PFTTrDA	0.13	0.14	10.52	10.57	246	
PFTDA	0.23	0.23	11.16	11.21	169	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, LLC.

BGES, Inc. - Anchorage, AK

Sample Delivery Group: L1498492

Samples Received: 05/27/2022

Project Number:

Description:

Report To: BGES

1042 E 6th Ave.

Anchorage, AK 99501

Entire Report Reviewed By:

Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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		⁷ Sc

SAMPLE SUMMARY

SB13-1 L1498492-01 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 03:01
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB9-3 L1498492-02 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 02:38
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB18-1 L1498492-03 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 02:15
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB9-1 L1498492-04 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 02:33
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB17-1 L1498492-05 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 02:09
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB12-1 L1498492-06 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 02:53
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB11-1 L1498492-07 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 02:43
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB16-1 L1498492-08 Solid

Collected by Sam Bundy
 Collected date/time 05/26/22 02:04
 Received date/time 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

SAMPLE SUMMARY

SB14-1 L1498492-09 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 03:07
 Received date/time: 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

GAC-2 L1498492-10 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 03:25
 Received date/time: 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

EB-526 L1498492-11 GW

Collected by: Sam Bundy
 Collected date/time: 05/26/22 00:00
 Received date/time: 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

GAC-526 L1498492-12 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 03:30
 Received date/time: 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

EB-523 L1498492-13 GW

Collected by: Sam Bundy
 Collected date/time: 05/23/22 15:05
 Received date/time: 05/27/22 10:07

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870674	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

CASE NARRATIVE

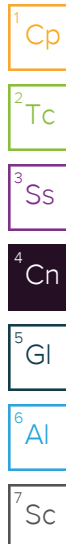
Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

Project Comments

L1498492 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13 contains subout data that is included after the chain of custody.



GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

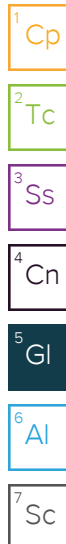
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
-----------	-------------

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Gl

⁶ Al

⁷ Sc



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

L1498492

Number 134046

Client: **BGES, Inc.** Report to Contact: **Jayne Martin** Telephone No. / E-mail: **907-644-2000** Quote No.: **00107286**
 Address: **1042 E 6th Ave** Sampler's Signature: *[Signature]* Analysis (Attach list if more space is needed): **Jayne @ BGES Inc.com** Page **1** of **3**
 City: **Anchorage** State: **AK** Zip Code: **99501** Printed Name: **Sam Bundy** Lot # Bar Code (lab use only):
 Project Name: **Homer Airport**

Project No.	P.O. No.	Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	G-Grab or Composite	Matrix						No. of Containers by Preservative Type	Remarks / Cooler I.D.		
						Agar	Starch	Albumin	Urease	RSB04	PH01			HC	NaOH
		SB13-1	5-26-22	0301	G	X								X	
		SB9-3		0238	G	X								X	
		SB18-1		0215	G	X								X	
		SB9-1		0233	G	X								X	
		SB17-1		0209	G	X								X	
		SB12-1		0253	G	X								X	
		SB11-1		0243	G	X								X	
		SB16-1		0204	G	X								X	
		SB14-1		0307	G	X								X	
		GAC-2		0325	G	X								X	

Turn Around Time Required (Prior lab approval required for expedited TAT): Standard Rush (Specify)

Sample Disposal: Return to Client Disposal by Lab

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): **Level II**

1. Relinquished by: <i>[Signature]</i>	Date: 5/26/22	Time: 1600	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by	Date	Time

Temp Blank Y N

LAB USE ONLY: Received on Ice (Circle) Yes No Ice Pack Receipt Temp. °C

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

Document Number: MED03N2-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s). PINK-Field/Client Copy

L1498492



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134047

Client: **BGES, Inc.** Report to Contact: **Jayne Martin** Telephone No. / E-mail: **907-644-2600**
 Address: **1042 E 6th Ave** Sampler's Signature: *[Signature]* Analysis (Attach list if more space is needed): **Jayne@BGES Inc.com**
 City: **Anchorage** State: **AK** Zip Code: **99501** Printed Name: **Sam Budy** Quote No.: **00109236**
 Project Name: **Homer Airport** Page **2** of **3**
 Lot # Bar Code (lab use only):

Sample ID / Description (Containers for each sample may be combined on one line.)	P.O. No.	Collection Date(s)	Collection Time (Military)	Matrix	No of Containers by Preservative Type										Remarks / Cooler I.D.	
					Ungens	H2SO4	HNO3	HCl	H2O2	50% Ac	Field Blank	QSM Table B15	Agar	Salt		Min. Agar
SB14-2		5-26-22	1300	G	X	1										Hold
SB13-2			0304	G	X	1										Hold
SB16-2			0209	G	X	1										Hold
SB9-2			0236	G	X	1										Hold
SB18-2			0214	G	X	1										Hold
SB18-2			0212	G	X	1										Hold
SB17-2			0249	G	X	1										Hold
SB11-2			0256	G	X	1										Agueous
SB12-2				G	X ^{SB}	2								X		
FB526														X		
GAC-526			0330	G	X	2										

Turn Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify)

Sample Disposal: Return to Client Disposal by Lab

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): **Level II**

Date	Time	1. Received by
Date	Time	2. Received by
Date	Time	3. Received by
Date	Time	4. Laboratory received by

Temp Blank Y N

LAB USE ONLY

Client: Sub Contract
 Project: PACES - HOMER Project
 Sample ID:
 Preservative:
 Container:
 Composite:



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

L1498492

Number 134048

Client: **BOES, Inc.**
 Address: **1042 E 6th Ave**
 City: **Anchorage** State: **AK** Zip Code: **99501**
 Project Name: **Homer Airport**

Report to Contact: **Jayne Martin**
 Sampler's Signature: *[Signature]*
 Printed Name: **Sam Bundy**

Telephone No. / E-mail: **907-644-2900**
 Quote No: **00107786**
 Analysis (Attach list if more space is needed):
 Page **3** of **3**
 Lot # Bar Code (lab use only):
 Remarks / Cooler I.D.:

Project No.	P.O. No.	Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix											No of Containers by Preservative Type	Remarks / Cooler I.D.	
					U/Pres	H2SO4	HNO3	HCl	NaOH	50:50 K2	Field Filtered	Asph	Sand	Non-Aqueous	Other			
		EB-523	5-23-22	1505	GX	2											X	

Turn Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify)

Sample Disposal:
 Return to Client Disposal by Lab

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): **Level II**

1. Relinquished by	Date	Time	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
	Date	Time	4. Laboratory received by	Date	Time

Temp Blank Y N

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp _____ °C



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1870674
Lot Number: **XE27026**
Date Completed: 06/21/2022

07/05/2022 12:46 PM
Approved and released by:
Project Manager II: **Edward Barnett**



The electronic signature above is the equivalent of a handwritten signature.
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE27026

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE27026-001, XE27026-002, XE27026-003, XE27026-006, XE27026-009. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside the upper control limit: XE27026-005. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The following sample was diluted due to the nature of the sample matrix: XE27026-020. The LOQ has been elevated to reflect the dilution.

Samples XE27026-019 and XE27026-021 required centrifugation prior to extraction, due to excessive solids present in the samples. Centrifugation was performed following the PFAS Aqueous Centrifuge Protocol; samples were spiked with Surrogate (SUR; Extracted Internal Standard/EIS) and shaken vigorously before being poured into a conical bottle and centrifuged. The centrifuged aqueous sample was decanted back into the original sample bottle, off of the condensed solids remaining in the centrifuge

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

bottle. Original sample bottle was rinsed as normal and centrifuge bottle was rinsed with 4mL of MeOH. Centrifuge bottle rinsate was added to the elution. Samples concentrated to <5mL and reconstituted to 5mL using MeOH by transfer pipet.

Surrogate recovery for the following samples was outside control limits: XE27026-019, XE27026-021. Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE27026
Project Name: Homer Airport
Project Number: WG1870674

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB13-1	Solid	05/26/2022 0301	05/27/2022
002	SB9-3	Solid	05/26/2022 0238	05/27/2022
003	SB18-1	Solid	05/26/2022 0215	05/27/2022
004	SB9-1	Solid	05/26/2022 0233	05/27/2022
005	SB17-1	Solid	05/26/2022 0209	05/27/2022
006	SB12-1	Solid	05/26/2022 0253	05/27/2022
007	SB11-1	Solid	05/26/2022 0243	05/27/2022
008	SB16-1	Solid	05/26/2022 0204	05/27/2022
009	SB14-1	Solid	05/26/2022 0307	05/27/2022
010	GAC-2	Solid	05/26/2022 0325	05/27/2022
011	SB14-2	Solid	05/26/2022 1310	05/27/2022
012	SB13-2	Solid	05/26/2022 0304	05/27/2022
013	SB16-2	Solid	05/26/2022 0207	05/27/2022
014	SB9-2	Solid	05/26/2022 0236	05/27/2022
015	SB18-2	Solid	05/26/2022 0214	05/27/2022
016	SB17-2	Solid	05/26/2022 0212	05/27/2022
017	SB11-2	Solid	05/26/2022 0249	05/27/2022
018	SB12-2	Solid	05/26/2022 0256	05/27/2022
019	EB-526	Aqueous	05/26/2022	05/27/2022
020	GAC-526	Aqueous	05/26/2022 0330	05/27/2022
021	EB-523	Aqueous	05/23/2022 1505	05/27/2022

(21 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary

Pace Analytical LLC

Lot Number: XE27026

Project Name: Homer Airport

Project Number: WG1870674

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB13-1	Solid	PFPeS	PFAS by ID	0.29	J	ug/kg	8
001	SB13-1	Solid	PFHxS	PFAS by ID	4.4		ug/kg	8
001	SB13-1	Solid	PFHpA	PFAS by ID	0.37	J	ug/kg	8
001	SB13-1	Solid	PFHxA	PFAS by ID	0.51	J	ug/kg	8
001	SB13-1	Solid	PFOS	PFAS by ID	2.5		ug/kg	8
002	SB9-3	Solid	PFHxS	PFAS by ID	0.31	J	ug/kg	10
002	SB9-3	Solid	PFOS	PFAS by ID	2.6		ug/kg	10
003	SB18-1	Solid	PFHpS	PFAS by ID	0.36	J	ug/kg	12
003	SB18-1	Solid	PFPeS	PFAS by ID	0.21	J	ug/kg	12
003	SB18-1	Solid	PFHxS	PFAS by ID	6.9		ug/kg	12
003	SB18-1	Solid	PFHpA	PFAS by ID	2.4		ug/kg	12
003	SB18-1	Solid	PFHxA	PFAS by ID	2.0		ug/kg	12
003	SB18-1	Solid	PFNA	PFAS by ID	0.59	J	ug/kg	12
003	SB18-1	Solid	PFOA	PFAS by ID	2.2		ug/kg	12
003	SB18-1	Solid	PFPeA	PFAS by ID	0.77	J	ug/kg	12
003	SB18-1	Solid	PFOS	PFAS by ID	14		ug/kg	12
004	SB9-1	Solid	PFHxS	PFAS by ID	0.45	J	ug/kg	14
004	SB9-1	Solid	PFDA	PFAS by ID	0.22	J	ug/kg	14
004	SB9-1	Solid	PFNA	PFAS by ID	0.13	J	ug/kg	14
004	SB9-1	Solid	PFOA	PFAS by ID	0.27	J	ug/kg	14
004	SB9-1	Solid	PFUdA	PFAS by ID	0.19	J	ug/kg	14
004	SB9-1	Solid	PFOS	PFAS by ID	4.2		ug/kg	14
005	SB17-1	Solid	8:2 FTS	PFAS by ID	1.1	J	ug/kg	16
005	SB17-1	Solid	6:2 FTS	PFAS by ID	0.34	J	ug/kg	16
005	SB17-1	Solid	PFBS	PFAS by ID	0.17	J	ug/kg	16
005	SB17-1	Solid	PFDS	PFAS by ID	0.40	J	ug/kg	16
005	SB17-1	Solid	PFHpS	PFAS by ID	0.26	J	ug/kg	16
005	SB17-1	Solid	PFNS	PFAS by ID	0.59	J	ug/kg	16
005	SB17-1	Solid	PFOSA	PFAS by ID	0.45	J	ug/kg	16
005	SB17-1	Solid	PFPeS	PFAS by ID	0.48	J	ug/kg	16
005	SB17-1	Solid	PFHxS	PFAS by ID	7.0		ug/kg	16
005	SB17-1	Solid	PFDA	PFAS by ID	1.8		ug/kg	16
005	SB17-1	Solid	PFHpA	PFAS by ID	0.36	J	ug/kg	16
005	SB17-1	Solid	PFHxA	PFAS by ID	0.70	J	ug/kg	16
005	SB17-1	Solid	PFNA	PFAS by ID	1.4		ug/kg	16
005	SB17-1	Solid	PFOA	PFAS by ID	2.5		ug/kg	16
005	SB17-1	Solid	PFPeA	PFAS by ID	0.32	J	ug/kg	16
005	SB17-1	Solid	PFUdA	PFAS by ID	0.57	J	ug/kg	16
005	SB17-1	Solid	PFOS	PFAS by ID	110		ug/kg	16
006	SB12-1	Solid	PFHxS	PFAS by ID	0.22	J	ug/kg	18
006	SB12-1	Solid	PFOS	PFAS by ID	2.0		ug/kg	18
007	SB11-1	Solid	PFOS	PFAS by ID	1.8		ug/kg	20
008	SB16-1	Solid	PFHxS	PFAS by ID	0.47	J	ug/kg	22

Detection Summary (Continued)

Lot Number: XE27026

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
008	SB16-1	Solid	PFHpA	PFAS by ID	0.41	J	ug/kg	22
008	SB16-1	Solid	PFHxA	PFAS by ID	0.49	J	ug/kg	22
008	SB16-1	Solid	PFNA	PFAS by ID	0.54	J	ug/kg	22
008	SB16-1	Solid	PFOA	PFAS by ID	0.70	J	ug/kg	22
008	SB16-1	Solid	PFPeA	PFAS by ID	0.82	J	ug/kg	22
008	SB16-1	Solid	PFOS	PFAS by ID	8.5		ug/kg	22
009	SB14-1	Solid	PFHxS	PFAS by ID	0.80	J	ug/kg	24
009	SB14-1	Solid	PFOS	PFAS by ID	5.1		ug/kg	24
010	GAC-2	Solid	6:2 FTS	PFAS by ID	1.3	J	ug/kg	26
010	GAC-2	Solid	PFHxS	PFAS by ID	0.46	J	ug/kg	26
010	GAC-2	Solid	PFHxA	PFAS by ID	0.50	J	ug/kg	26
010	GAC-2	Solid	PFPeA	PFAS by ID	0.63	J	ug/kg	26
010	GAC-2	Solid	PFOS	PFAS by ID	1.9		ug/kg	26

(56 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-001
Description: SB13-1	Matrix: Solid
Date Sampled: 05/26/2022 0301	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 66.7 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1749	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.9	0.40	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.9	0.44	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.9	0.31	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.9	0.42	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.9	0.50	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.9	0.57	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.4	0.19	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.4	0.32	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.4	0.25	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.4	0.32	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.4	0.25	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.29	J	1.4	0.27	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	4.4		1.4	0.25	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.4	0.60	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.4	0.23	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.4	0.25	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.37	J	1.4	0.21	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.51	J	1.4	0.27	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.4	0.22	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.4	0.31	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.4	0.23	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.4	0.27	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.4	0.25	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.4	0.27	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.5		1.4	0.51	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	236	25-150
13C2_6:2FTS	N	220	25-150
13C2_8:2FTS	N	286	25-150
13C2_PFDaA		93	25-150
13C2_PFTeDA		71	25-150
13C3_PFBs		74	25-150
13C3_PFHxS		76	25-150
13C4_PFBa		78	25-150
13C4_PFHpA		79	25-150
13C5_PFHxA		80	25-150
13C5_PFPeA		78	25-150
13C6_PFDa		88	25-150
13C7_PFUdA		91	25-150
13C8_PFOA		85	25-150
13C8_PFOs		79	25-150
13C8_PFOsA		71	10-150
13C9_PFNa		85	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-001	
Description: SB13-1	Matrix: Solid	
Date Sampled: 05/26/2022 0301	Project Name: Homer Airport	% Solids: 66.7 05/29/2022 1917
Date Received: 05/27/2022	Project Number: WG1870674	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		119	25-150
d-MeFOSA		57	10-150
d3-MeFOSAA		116	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-002
Description: SB9-3	Matrix: Solid
Date Sampled: 05/26/2022 0238	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 95.4 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1800	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.0	0.27	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.30	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.21	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.0	0.29	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.39	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.99	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.99	0.22	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.99	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.99	0.18	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.31	J	0.99	0.17	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.99	0.41	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.99	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.99	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.99	0.18	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.99	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.99	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.99	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.99	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.99	0.18	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.6		0.99	0.35	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		132	25-150
13C2_6:2FTS		131	25-150
13C2_8:2FTS	N	174	25-150
13C2_PFDaA		131	25-150
13C2_PFTeDA		108	25-150
13C3_PFBs		105	25-150
13C3_PFHxS		106	25-150
13C4_PFBa		109	25-150
13C4_PFHpA		108	25-150
13C5_PFHxA		109	25-150
13C5_PFPeA		108	25-150
13C6_PFDa		117	25-150
13C7_PFUdA		123	25-150
13C8_PFOA		107	25-150
13C8_PFOs		112	25-150
13C8_PFOsA		108	10-150
13C9_PFNa		111	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-002
Description: SB9-3	Matrix: Solid
Date Sampled: 05/26/2022 0238	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674
	% Solids: 95.4 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	153	25-150
d-MeFOSA		86	10-150
d3-MeFOSAA		128	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-003
Description: SB18-1	Matrix: Solid
Date Sampled: 05/26/2022 0215	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 78.7 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1811	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.1	0.29	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.1	0.32	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.1	0.23	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.1	0.31	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	2.1	0.42	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.36	J	1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.21	J	1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	6.9		1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.44	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	2.4		1.1	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	2.0		1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.59	J	1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	2.2		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.77	J	1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	14		1.1	0.38	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	290	25-150
13C2_6:2FTS	N	276	25-150
13C2_8:2FTS	N	336	25-150
13C2_PFDaA		125	25-150
13C2_PFTeDA		95	25-150
13C3_PFBs		104	25-150
13C3_PFHxS		106	25-150
13C4_PFBa		106	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		113	25-150
13C5_PFPeA		110	25-150
13C6_PFDa		118	25-150
13C7_PFUdA		124	25-150
13C8_PFOA		116	25-150
13C8_PFOs		110	25-150
13C8_PFOsA		103	10-150
13C9_PFNa		115	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-003
Description: SB18-1	Matrix: Solid
Date Sampled: 05/26/2022 0215	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674
	% Solids: 78.7 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	161	25-150
d-MeFOSA		75	10-150
d3-MeFOSAA	N	151	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-004
Description: SB9-1	Matrix: Solid
Date Sampled: 05/26/2022 0233	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674
	% Solids: 95.7 05/29/2022 1917

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1822	ASD	06/06/2022 1613	43909
2	SOP SPE	PFAS by ID SOP	1	06/15/2022 1951	MMM	06/14/2022 1512	44855

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.0	0.27	ug/kg	2
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		1.8	0.27	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.8	0.19	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		1.8	0.26	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.8	0.35	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.89	0.12	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.89	0.20	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.89	0.16	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.89	0.20	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOA)	754-91-6	PFAS by ID SOP	ND		0.89	0.16	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.89	0.16	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.45	J	0.89	0.16	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.89	0.37	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.22	J	0.89	0.14	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.89	0.16	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.89	0.13	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.89	0.16	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.13	J	0.89	0.13	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.27	J	0.89	0.19	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.89	0.14	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.89	0.17	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.89	0.15	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	0.19	J	0.89	0.16	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.2		0.89	0.32	ug/kg	1

Surrogate	Q	Run 1		Q	Run 2	
		% Recovery	Acceptance Limits		% Recovery	Acceptance Limits
13C2_4:2FTS		141	25-150		113	25-150
13C2_6:2FTS		141	25-150		108	25-150
13C2_8:2FTS	N	198	25-150		136	25-150
13C2_PFDa		118	25-150		112	25-150
13C2_PFTeDA		97	25-150		96	25-150
13C3_PFBS		93	25-150		94	25-150
13C3_PFHxS		99	25-150		111	25-150
13C4_PFBA		97	25-150		91	25-150
13C4_PFHpA		96	25-150		96	25-150
13C5_PFHxA		99	25-150		96	25-150
13C5_PFPeA		98	25-150		94	25-150
13C6_PFDA		108	25-150		98	25-150
13C7_PFUdA		114	25-150		103	25-150
13C8_PFOA		99	25-150		97	25-150
13C8_PFOS		99	25-150		98	25-150
13C8_PFOSA		99	10-150		96	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-004
Description: SB9-1	Matrix: Solid
Date Sampled: 05/26/2022 0233	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 95.7 05/29/2022 1917
Project Number: WG1870674	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		102	25-150		100	25-150
d5-EtFOSAA		141	25-150		132	25-150
d-MeFOSA		86	10-150		91	10-150
d3-MeFOSAA		127	25-150		123	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-005
Description: SB17-1	Matrix: Solid
Date Sampled: 05/26/2022 0209	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 85.7 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1833	ASD	06/06/2022 1613	43909
2	SOP SPE	PFAS by ID SOP	5	06/10/2022 1644	ASD	06/06/2022 1613	43909
3	SOP SPE	PFAS by ID SOP	1	06/16/2022 1502	MMM	06/14/2022 1512	44855

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	1.1	J	2.1	0.28	ug/kg	3
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	0.34	J	2.1	0.32	ug/kg	3
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.3	0.25	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.3	0.33	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.40	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.45	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	0.17	J	1.1	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	0.40	J	1.1	0.26	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.26	J	1.1	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	0.59	J	1.1	0.25	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	0.45	J	1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.48	J	1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	7.0		1.1	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.48	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	1.8		1.1	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.36	J	1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.70	J	1.1	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	1.4		1.1	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	2.5		1.1	0.24	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.32	J	1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	0.57	J	1.1	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	110		5.7	2.0	ug/kg	2

Surrogate	Q	Run 1		Q	Run 2		Q	Run 3	
		% Recovery	Acceptance Limits		% Recovery	Acceptance Limits		% Recovery	Acceptance Limits
13C2_4:2FTS	N	160	25-150		101	25-150		121	25-150
13C2_6:2FTS	N	171	25-150		96	25-150		144	25-150
13C2_8:2FTS	N	197	25-150		99	25-150		148	25-150
13C2_PFDaA		129	25-150		101	25-150		105	25-150
13C2_PFTeDA		107	25-150		97	25-150		83	25-150
13C3_PFBs		102	25-150		95	25-150		82	25-150
13C3_PFHxS		110	25-150		91	25-150		90	25-150
13C4_PFBa		102	25-150		90	25-150		85	25-150
13C4_PFHpA		106	25-150		91	25-150		80	25-150
13C5_PFHxA		104	25-150		89	25-150		88	25-150
13C5_PFPeA		103	25-150		93	25-150		83	25-150
13C6_PFDa		114	25-150		95	25-150		81	25-150
13C7_PFUdA		124	25-150		99	25-150		92	25-150
13C8_PFOA		103	25-150		91	25-150		79	25-150
13C8_PFOs		109	25-150		102	25-150		86	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-005
Description: SB17-1	Matrix: Solid
Date Sampled: 05/26/2022 0209	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 85.7 05/29/2022 1917
Project Number: WG1870674	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits	Q	Run 3 % Recovery	Acceptance Limits
13C8_PFOSA		107	10-150		97	10-150		82	10-150
13C9_PFNA		108	25-150		95	25-150		88	25-150
d5-EtFOSAA	N	154	25-150		101	25-150		135	25-150
d-MeFOSA		83	10-150		71	10-150		97	10-150
d3-MeFOSAA		144	25-150		97	25-150		120	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-006
Description: SB12-1	Matrix: Solid
Date Sampled: 05/26/2022 0253	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 75.2 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1844	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.3	0.31	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.3	0.34	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.3	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.3	0.33	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.39	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.45	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.22	J	1.1	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.47	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.0		1.1	0.40	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		147	25-150
13C2_6:2FTS		145	25-150
13C2_8:2FTS	N	194	25-150
13C2_PFDoA		132	25-150
13C2_PFTeDA		108	25-150
13C3_PFBFS		100	25-150
13C3_PFHxS		106	25-150
13C4_PFBA		101	25-150
13C4_PFHpA		100	25-150
13C5_PFHxA		103	25-150
13C5_PFPeA		102	25-150
13C6_PFDA		111	25-150
13C7_PFUdA		125	25-150
13C8_PFOA		100	25-150
13C8_PFOS		106	25-150
13C8_PFOSA		85	10-150
13C9_PFNA		111	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-006
Description: SB12-1	Matrix: Solid
Date Sampled: 05/26/2022 0253	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674
	% Solids: 75.2 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	161	25-150
d-MeFOSA		76	10-150
d3-MeFOSAA		135	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-007
Description: SB11-1	Matrix: Solid
Date Sampled: 05/26/2022 0243	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 94.0 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1855	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.1	0.29	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.1	0.32	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.1	0.23	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.1	0.30	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.1	0.42	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.44	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDaA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.8		1.1	0.38	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		101	25-150
13C2_6:2FTS		103	25-150
13C2_8:2FTS		117	25-150
13C2_PFDaA		109	25-150
13C2_PFTeDA		100	25-150
13C3_PFBS		92	25-150
13C3_PFHxS		99	25-150
13C4_PFBA		83	25-150
13C4_PFHpA		84	25-150
13C5_PFHxA		86	25-150
13C5_PFPeA		85	25-150
13C6_PFDA		97	25-150
13C7_PFUdA		106	25-150
13C8_PFOA		89	25-150
13C8_PFOS		97	25-150
13C8_PFOSA		74	10-150
13C9_PFNA		90	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-007
Description: SB11-1	Matrix: Solid
Date Sampled: 05/26/2022 0243	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674
	% Solids: 94.0 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		118	25-150
d-MeFOSA		66	10-150
d3-MeFOSAA		95	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-008
Description: SB16-1	Matrix: Solid
Date Sampled: 05/26/2022 0204	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 84.1 05/30/2022 1815
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1906	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.2	0.30	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.2	0.34	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.44	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.47	J	1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.46	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.41	J	1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.49	J	1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.54	J	1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.70	J	1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.82	J	1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTeDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	8.5		1.1	0.39	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		112	25-150
13C2_6:2FTS		114	25-150
13C2_8:2FTS		112	25-150
13C2_PFDaA		121	25-150
13C2_PFTeDA		115	25-150
13C3_PFBs		103	25-150
13C3_PFHxS		105	25-150
13C4_PFBa		105	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		106	25-150
13C5_PFPeA		109	25-150
13C6_PFDa		108	25-150
13C7_PFUdA		117	25-150
13C8_PFOA		109	25-150
13C8_PFOs		107	25-150
13C8_PFOsA		109	10-150
13C9_PFNa		105	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-008	
Description: SB16-1	Matrix: Solid	
Date Sampled: 05/26/2022 0204	Project Name: Homer Airport	% Solids: 84.1 05/30/2022 1815
Date Received: 05/27/2022	Project Number: WG1870674	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		123	25-150
d-MeFOSA		104	10-150
d3-MeFOSAA		114	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-009
Description: SB14-1	Matrix: Solid
Date Sampled: 05/26/2022 0307	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 62.6 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1917	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.2	0.44	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		3.2	0.49	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.2	0.35	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.2	0.46	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.2	0.56	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.2	0.63	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.6	0.21	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.6	0.36	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.6	0.28	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.6	0.35	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.6	0.28	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.6	0.30	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.80	J	1.6	0.28	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.6	0.67	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.6	0.25	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.6	0.28	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.6	0.23	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.6	0.30	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.6	0.24	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.6	0.34	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.6	0.25	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.6	0.30	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.6	0.27	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.6	0.30	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	5.1		1.6	0.57	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	155	25-150
13C2_6:2FTS		132	25-150
13C2_8:2FTS	N	170	25-150
13C2_PFDoA		129	25-150
13C2_PFTeDA		105	25-150
13C3_PFBS		101	25-150
13C3_PFHxS		103	25-150
13C4_PFBA		103	25-150
13C4_PFHpA		100	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		100	25-150
13C6_PFDA		109	25-150
13C7_PFUdA		119	25-150
13C8_PFOA		104	25-150
13C8_PFOS		110	25-150
13C8_PFOSA		95	10-150
13C9_PFNA		108	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-009	
Description: SB14-1	Matrix: Solid	
Date Sampled: 05/26/2022 0307	Project Name: Homer Airport	% Solids: 62.6 05/29/2022 1917
Date Received: 05/27/2022	Project Number: WG1870674	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		147	25-150
d-MeFOSA		82	10-150
d3-MeFOSAA		134	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-010
Description: GAC-2	Matrix: Solid
Date Sampled: 05/26/2022 0325	Project Name: Homer Airport
Date Received: 05/27/2022	% Solids: 48.9 05/29/2022 1917
Project Number: WG1870674	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 1928	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		3.6	0.49	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	1.3	J	3.6	0.54	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		3.6	0.39	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.6	0.51	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.6	0.62	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.6	0.70	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.8	0.23	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.8	0.40	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.8	0.39	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.46	J	1.8	0.31	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.8	0.74	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.8	0.28	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.8	0.25	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.50	J	1.8	0.33	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.8	0.27	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.8	0.38	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.63	J	1.8	0.28	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.9		1.8	0.63	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		115	25-150
13C2_6:2FTS		104	25-150
13C2_8:2FTS		106	25-150
13C2_PFDaA		102	25-150
13C2_PFTeDA		86	25-150
13C3_PFBs		93	25-150
13C3_PFHxA		88	25-150
13C4_PFBa		104	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		106	25-150
13C6_PFDa		96	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		100	25-150
13C8_PFOs		83	25-150
13C8_PFOsA		81	10-150
13C9_PFNa		97	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-010	
Description: GAC-2	Matrix: Solid	
Date Sampled: 05/26/2022 0325	Project Name: Homer Airport	% Solids: 48.9 05/29/2022 1917
Date Received: 05/27/2022	Project Number: WG1870674	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		109	25-150
d-MeFOSA		71	10-150
d3-MeFOSAA		74	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-019
Description: EB-526	Matrix: Aqueous
Date Sampled: 05/26/2022	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2314	ASD	06/08/2022 1644	44206
2	SOP SPE	PFAS by ID SOP	1	06/19/2022 1204	LAB	06/17/2022 1613	45374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.1	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.1	1.8	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.1	0.78	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.1	0.67	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.1	0.83	ng/L	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.6	0.37	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.6	0.69	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.6	0.44	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.6	0.63	ng/L	1
Perfluoro-1-octanesulfonamide (PFOA)	754-91-6	PFAS by ID SOP	ND		3.6	0.55	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.6	0.53	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.6	0.49	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.5	0.53	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.6	0.47	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.6	0.42	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.5	0.39	ng/L	2
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.5	0.61	ng/L	2
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.6	0.41	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.6	0.74	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.5	0.48	ng/L	2
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.6	0.53	ng/L	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	PFAS by ID SOP	ND		3.6	0.47	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.6	0.56	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.6	1.8	ng/L	1

Surrogate	Q	Run 1	Acceptance	Q	Run 2	Acceptance
		% Recovery	Limits		% Recovery	Limits
13C2_4:2FTS		101	25-150	N	155	25-150
13C2_6:2FTS		120	25-150	N	183	25-150
13C2_8:2FTS		108	25-150		148	25-150
13C2_PFDa		97	25-150		128	25-150
13C2_PFTeDA		83	25-150		122	25-150
13C3_PFBs		102	25-150		116	25-150
13C3_PFHxS		113	25-150		118	25-150
13C4_PFBa		106	25-150		118	25-150
13C4_PFHpA		111	25-150		122	25-150
13C5_PFHxA		99	25-150		118	25-150
13C5_PFPeA		104	25-150		114	25-150
13C6_PFDa		105	25-150		125	25-150
13C7_PFUdA		100	25-150		133	25-150
13C8_PFOA		102	25-150		122	25-150
13C8_PFOs		110	25-150		123	25-150
13C8_PFOsA		97	10-150		113	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-019
Description: EB-526	Matrix: Aqueous
Date Sampled: 05/26/2022	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		105	25-150		123	25-150
d5-EtFOSAA		100	25-150		147	25-150
d-MeFOSA		77	10-150		55	10-150
d3-MeFOSAA		112	25-150		144	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-020
Description: GAC-526	Matrix: Aqueous
Date Sampled: 05/26/2022 0330	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2324	ASD	06/08/2022 1644	44206
2	SOP SPE	PFAS by ID SOP	1	06/19/2022 1216	LAB	06/17/2022 1613	45374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		80	16	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		80	20	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		80	8.7	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		80	7.5	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		160	13	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		80	9.3	ng/L	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		40	4.1	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		40	7.8	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		40	5.0	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		40	7.1	ng/L	1
Perfluoro-1-octanesulfonamide (PFOA)	754-91-6	PFAS by ID SOP	ND		40	6.1	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		40	5.9	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		40	5.5	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		40	6.0	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		40	5.2	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		40	4.7	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		40	4.5	ng/L	2
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		40	6.9	ng/L	2
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		40	4.6	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		40	8.3	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		40	5.4	ng/L	2
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		40	6.0	ng/L	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	PFAS by ID SOP	ND		40	5.3	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		40	6.3	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		40	20	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS		100	25-150		101	25-150
13C2_6:2FTS		109	25-150		107	25-150
13C2_8:2FTS		110	25-150		105	25-150
13C2_PFDa		92	25-150		101	25-150
13C2_PFTeDA		84	25-150		93	25-150
13C3_PFBs		104	25-150		100	25-150
13C3_PFHxS		111	25-150		102	25-150
13C4_PFBa		105	25-150		106	25-150
13C4_PFHpA		108	25-150		106	25-150
13C5_PFHxA		103	25-150		104	25-150
13C5_PFPeA		102	25-150		102	25-150
13C6_PFDa		102	25-150		106	25-150
13C7_PFUdA		99	25-150		106	25-150
13C8_PFOA		112	25-150		100	25-150
13C8_PFOs		109	25-150		107	25-150
13C8_PFOsA		104	10-150		106	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-020
Description: GAC-526	Matrix: Aqueous
Date Sampled: 05/26/2022 0330	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		102	25-150		106	25-150
d5-EtFOSAA		107	25-150		99	25-150
d-MeFOSA		106	10-150		92	10-150
d3-MeFOSAA		105	25-150		103	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-021
Description: EB-523	Matrix: Aqueous
Date Sampled: 05/23/2022 1505	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2335	ASD	06/08/2022 1644	44206
2	SOP SPE	PFAS by ID SOP	1	06/19/2022 1229	LAB	06/17/2022 1613	45374

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.0	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.0	1.7	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.0	0.76	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.0	0.65	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.0	0.81	ng/L	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.5	0.36	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.5	0.68	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.5	0.43	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.5	0.62	ng/L	1
Perfluoro-1-octanesulfonamide (PFOA)	754-91-6	PFAS by ID SOP	ND		3.5	0.53	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.5	0.52	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.5	0.48	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.5	0.53	ng/L	2
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.5	0.46	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.5	0.41	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.5	0.39	ng/L	2
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.5	0.61	ng/L	2
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.5	0.40	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.5	0.72	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.5	0.48	ng/L	2
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.5	0.52	ng/L	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	PFAS by ID SOP	ND		3.5	0.46	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.5	0.55	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.5	1.7	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS		109	25-150	N	159	25-150
13C2_6:2FTS		134	25-150	N	239	25-150
13C2_8:2FTS		120	25-150	N	208	25-150
13C2_PFDa		107	25-150		78	25-150
13C2_PFTeDA		89	25-150		111	25-150
13C3_PFBs		97	25-150		102	25-150
13C3_PFHxS		109	25-150		104	25-150
13C4_PFBa		97	25-150		102	25-150
13C4_PFHpA		100	25-150		106	25-150
13C5_PFHxA		91	25-150		104	25-150
13C5_PFPeA		94	25-150		100	25-150
13C6_PFDa		99	25-150		96	25-150
13C7_PFUdA		104	25-150		78	25-150
13C8_PFOA		95	25-150		109	25-150
13C8_PFOs		101	25-150		111	25-150
13C8_PFOsA		93	10-150		44	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE27026-021
Description: EB-523	Matrix: Aqueous
Date Sampled: 05/23/2022 1505	Project Name: Homer Airport
Date Received: 05/27/2022	Project Number: WG1870674

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		95	25-150		109	25-150
d5-EtFOSAA		135	25-150		73	25-150
d-MeFOSA		69	10-150		22	10-150
d3-MeFOSAA		111	25-150		35	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ43909-001

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/09/2022 1728
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/09/2022 1728
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/09/2022 1728
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/09/2022 1728
MeFOSA	ND		1	2.0	0.35	ug/kg	06/09/2022 1728
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/09/2022 1728
PFBS	ND		1	1.0	0.13	ug/kg	06/09/2022 1728
PFDS	ND		1	1.0	0.22	ug/kg	06/09/2022 1728
PFHpS	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFNS	ND		1	1.0	0.22	ug/kg	06/09/2022 1728
PFOSA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFPeS	ND		1	1.0	0.19	ug/kg	06/09/2022 1728
PFHxS	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFBA	ND		1	1.0	0.42	ug/kg	06/09/2022 1728
PFDA	ND		1	1.0	0.16	ug/kg	06/09/2022 1728
PFDaA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFHpA	ND		1	1.0	0.14	ug/kg	06/09/2022 1728
PFHxA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFNA	ND		1	1.0	0.15	ug/kg	06/09/2022 1728
PFOA	ND		1	1.0	0.21	ug/kg	06/09/2022 1728
PFPeA	ND		1	1.0	0.16	ug/kg	06/09/2022 1728
PFTeDA	ND		1	1.0	0.19	ug/kg	06/09/2022 1728
PFTrDA	ND		1	1.0	0.17	ug/kg	06/09/2022 1728
PFUdA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFOS	ND		1	1.0	0.36	ug/kg	06/09/2022 1728

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		102	25-150
13C2_6:2FTS		96	25-150
13C2_8:2FTS		97	25-150
13C2_PFDaA		101	25-150
13C2_PFTeDA		94	25-150
13C3_PFBs		98	25-150
13C3_PFHxS		101	25-150
13C4_PFBa		101	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		106	25-150
13C5_PFPeA		102	25-150
13C6_PFDa		102	25-150
13C7_PFUdA		100	25-150
13C8_PFOA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43909-001

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		99	25-150
13C8_PFOA		96	10-150
13C9_PFOA		103	25-150
d5-EtFOA		101	25-150
d-MeFOA		75	10-150
d3-MeFOA		101	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43909-002

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.6		1	85	50-150	06/09/2022 1739
6:2 FTS	1.9	1.5		1	79	50-150	06/09/2022 1739
4:2 FTS	1.9	1.6		1	83	50-150	06/09/2022 1739
EtFOSAA	2.0	1.8		1	88	50-150	06/09/2022 1739
MeFOSA	2.0	1.6		1	79	50-150	06/09/2022 1739
MeFOSAA	2.0	1.7		1	86	50-150	06/09/2022 1739
PFBS	1.8	1.6		1	93	50-150	06/09/2022 1739
PFDS	1.9	1.7		1	88	50-150	06/09/2022 1739
PFHpS	1.9	1.8		1	95	50-150	06/09/2022 1739
PFNS	1.9	1.7		1	90	50-150	06/09/2022 1739
PFOSA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFPeS	1.9	1.7		1	88	50-150	06/09/2022 1739
PFHxS	1.8	1.6		1	89	50-150	06/09/2022 1739
PFBA	2.0	1.8		1	89	50-150	06/09/2022 1739
PFDA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFDaA	2.0	1.7		1	84	50-150	06/09/2022 1739
PFHpA	2.0	1.8		1	91	50-150	06/09/2022 1739
PFHxA	2.0	1.7		1	83	50-150	06/09/2022 1739
PFNA	2.0	1.8		1	92	50-150	06/09/2022 1739
PFOA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFPeA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFTeDA	2.0	1.8		1	89	50-150	06/09/2022 1739
PFTrDA	2.0	1.8		1	89	50-150	06/09/2022 1739
PFUdA	2.0	1.7		1	86	50-150	06/09/2022 1739
PFOS	1.9	1.6		1	86	50-150	06/09/2022 1739

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		120	25-150
13C2_6:2FTS		117	25-150
13C2_8:2FTS		107	25-150
13C2_PFDaA		117	25-150
13C2_PFTeDA		108	25-150
13C3_PFBS		112	25-150
13C3_PFHxS		113	25-150
13C4_PFBA		113	25-150
13C4_PFHpA		112	25-150
13C5_PFHxA		120	25-150
13C5_PFPeA		119	25-150
13C6_PFDA		114	25-150
13C7_PFUdA		118	25-150
13C8_PFOA		119	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43909-002

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		121	25-150
13C8_PFOA		106	10-150
13C9_PFOA		110	25-150
d5-EtFOA		118	25-150
d-MeFOA		94	10-150
d3-MeFOA		116	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44206-001

Matrix: Aqueous

Batch: 44206

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/08/2022 1644

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	8.0	1.6	ng/L	06/15/2022 2146
6:2 FTS	ND		1	8.0	2.0	ng/L	06/15/2022 2146
4:2 FTS	ND		1	8.0	0.87	ng/L	06/15/2022 2146
EtFOSAA	ND		1	8.0	0.75	ng/L	06/15/2022 2146
MeFOSA	ND		1	16	1.3	ng/L	06/15/2022 2146
MeFOSAA	ND		1	8.0	0.93	ng/L	06/15/2022 2146
PFBS	ND		1	4.0	0.41	ng/L	06/15/2022 2146
PFDS	ND		1	4.0	0.78	ng/L	06/15/2022 2146
PFHpS	ND		1	4.0	0.50	ng/L	06/15/2022 2146
PFNS	ND		1	4.0	0.71	ng/L	06/15/2022 2146
PFOSA	ND		1	4.0	0.61	ng/L	06/15/2022 2146
PFPeS	ND		1	4.0	0.59	ng/L	06/15/2022 2146
PFHxS	ND		1	4.0	0.55	ng/L	06/15/2022 2146
PFDA	ND		1	4.0	0.52	ng/L	06/15/2022 2146
PFDoA	ND		1	4.0	0.47	ng/L	06/15/2022 2146
PFNA	ND		1	4.0	0.46	ng/L	06/15/2022 2146
PFOA	ND		1	4.0	0.83	ng/L	06/15/2022 2146
PFTeDA	ND		1	4.0	0.60	ng/L	06/15/2022 2146
PFTrDA	ND		1	4.0	0.53	ng/L	06/15/2022 2146
PFUdA	ND		1	4.0	0.63	ng/L	06/15/2022 2146
PFOS	ND		1	4.0	2.0	ng/L	06/15/2022 2146

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		97	25-150
13C2_6:2FTS		106	25-150
13C2_8:2FTS		100	25-150
13C2_PFDoA		89	25-150
13C2_PFTeDA		82	25-150
13C3_PFBS		97	25-150
13C3_PFHxS		111	25-150
13C4_PFBA		102	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		104	25-150
13C6_PFDA		92	25-150
13C7_PFUdA		91	25-150
13C8_PFOA		100	25-150
13C8_PFOS		102	25-150
13C8_PFOSA		96	10-150
13C9_PFNA		95	25-150
d5-EtFOSAA		94	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44206-001

Matrix: Aqueous

Batch: 44206

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/08/2022 1644

Surrogate	Q	% Rec	Acceptance Limit
d-MeFOSA		76	10-150
d3-MeFOSAA		97	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44206-002

Matrix: Aqueous

Batch: 44206

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/08/2022 1644

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	15	17		1	108	50-150	06/15/2022 2157
6:2 FTS	15	18		1	121	50-150	06/15/2022 2157
4:2 FTS	15	15		1	103	50-150	06/15/2022 2157
EtFOSAA	16	19		1	121	50-150	06/15/2022 2157
MeFOSA	16	18		1	115	50-150	06/15/2022 2157
MeFOSAA	16	19		1	120	50-150	06/15/2022 2157
PFBS	14	16		1	117	50-150	06/15/2022 2157
PFDS	15	18		1	117	50-150	06/15/2022 2157
PFHpS	15	19		1	122	50-150	06/15/2022 2157
PFNS	15	18		1	115	50-150	06/15/2022 2157
PFOSA	16	17		1	107	50-150	06/15/2022 2157
PFPeS	15	18		1	120	50-150	06/15/2022 2157
PFHxS	15	16		1	113	50-150	06/15/2022 2157
PFDA	16	18		1	115	50-150	06/15/2022 2157
PFDaA	16	18		1	114	50-150	06/15/2022 2157
PFNA	16	18		1	112	50-150	06/15/2022 2157
PFOA	16	17		1	107	50-150	06/15/2022 2157
PFTeDA	16	18		1	114	50-150	06/15/2022 2157
PFTrDA	16	16		1	102	50-150	06/15/2022 2157
PFUdA	16	18		1	109	50-150	06/15/2022 2157
PFOS	15	17		1	116	50-150	06/15/2022 2157

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		92	25-150
13C2_6:2FTS		99	25-150
13C2_8:2FTS		96	25-150
13C2_PFDaA		85	25-150
13C2_PFTeDA		71	25-150
13C3_PFBs		93	25-150
13C3_PFHxS		103	25-150
13C4_PFBa		99	25-150
13C4_PFHpA		103	25-150
13C5_PFHxA		97	25-150
13C5_PFPeA		96	25-150
13C6_PFDa		89	25-150
13C7_PFUdA		89	25-150
13C8_PFOA		99	25-150
13C8_PFOS		93	25-150
13C8_PFOsA		95	10-150
13C9_PFNa		96	25-150
d5-EtFOSAA		93	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44206-002

Matrix: Aqueous

Batch: 44206

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/08/2022 1644

Surrogate	Q	% Rec	Acceptance Limit
d-MeFOSA		85	10-150
d3-MeFOSAA		94	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44855-001

Matrix: Solid

Batch: 44855

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/14/2022 1512

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/15/2022 1754
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/15/2022 1754
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		98	25-150				
13C2_6:2FTS		114	25-150				
13C2_8:2FTS		100	25-150				
13C2_PFDaA		100	25-150				
13C2_PFTeDA		100	25-150				
13C3_PFBS		96	25-150				
13C3_PFHxS		114	25-150				
13C4_PFBA		98	25-150				
13C4_PFHpA		98	25-150				
13C5_PFHxA		99	25-150				
13C5_PFPeA		92	25-150				
13C6_PFDA		104	25-150				
13C7_PFUdA		91	25-150				
13C8_PFOA		99	25-150				
13C8_PFOS		101	25-150				
13C8_PFOSA		101	10-150				
13C9_PFNA		100	25-150				
d5-EtFOSAA		104	25-150				
d-MeFOSA		93	10-150				
d3-MeFOSAA		97	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44855-002

Matrix: Solid

Batch: 44855

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/14/2022 1512

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	2.0		1	104	50-150	06/15/2022 1805
6:2 FTS	1.9	2.4		1	127	50-150	06/15/2022 1805
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		98	25-150				
13C2_6:2FTS		105	25-150				
13C2_8:2FTS		105	25-150				
13C2_PFDaA		107	25-150				
13C2_PFTeDA		94	25-150				
13C3_PFBS		96	25-150				
13C3_PFHxS		118	25-150				
13C4_PFBA		98	25-150				
13C4_PFHpA		102	25-150				
13C5_PFHxA		109	25-150				
13C5_PFPeA		94	25-150				
13C6_PFDA		103	25-150				
13C7_PFUdA		93	25-150				
13C8_PFOA		105	25-150				
13C8_PFOS		94	25-150				
13C8_PFOSA		94	10-150				
13C9_PFNA		97	25-150				
d5-EtFOSAA		99	25-150				
d-MeFOSA		96	10-150				
d3-MeFOSAA		100	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ45374-001

Matrix: Aqueous

Batch: 45374

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/17/2022 1613

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
PFBA	ND		1	4.0	0.60	ng/L	06/19/2022 1125
PFHpA	ND		1	4.0	0.45	ng/L	06/19/2022 1125
PFHxA	ND		1	4.0	0.69	ng/L	06/19/2022 1125
PFPeA	ND		1	4.0	0.54	ng/L	06/19/2022 1125

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		101	25-150
13C2_6:2FTS		106	25-150
13C2_8:2FTS		116	25-150
13C2_PFDaA		101	25-150
13C2_PFTeDA		99	25-150
13C3_PFBs		100	25-150
13C3_PFHxS		104	25-150
13C4_PFBA		105	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		102	25-150
13C6_PFDA		106	25-150
13C7_PFUdA		108	25-150
13C8_PFOA		100	25-150
13C8_PFOS		106	25-150
13C8_PFOsA		106	10-150
13C9_PFNA		108	25-150
d5-EtFOSAA		91	25-150
d-MeFOSA		41	10-150
d3-MeFOSAA		93	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ45374-002

Matrix: Aqueous

Batch: 45374

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/17/2022 1613

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
PFBA	16	19		1	121	50-150	06/19/2022 1138
PFHpA	16	19		1	119	50-150	06/19/2022 1138
PFHxA	16	18		1	114	50-150	06/19/2022 1138
PFPeA	16	19		1	121	50-150	06/19/2022 1138
Surrogate	Q	% Rec			Acceptance Limit		
13C2_4:2FTS		67			25-150		
13C2_6:2FTS		72			25-150		
13C2_8:2FTS		65			25-150		
13C2_PFDaA		63			25-150		
13C2_PFTeDA		62			25-150		
13C3_PFBs		69			25-150		
13C3_PFHxS		69			25-150		
13C4_PFBa		71			25-150		
13C4_PFHpA		72			25-150		
13C5_PFHxA		71			25-150		
13C5_PFPeA		66			25-150		
13C6_PFDa		68			25-150		
13C7_PFUdA		68			25-150		
13C8_PFOa		68			25-150		
13C8_PFOs		71			25-150		
13C8_PFOsA		70			10-150		
13C9_PFNa		72			25-150		
d5-EtFOSAA		63			25-150		
d-MeFOSa		35			10-150		
d3-MeFOSAA		67			25-150		

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

**Chain of Custody
and
Miscellaneous Documents**

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 www.pacelabs.com

Number 134046

Client: BUES, Inc. Address: 1012 E 6th Ave City: Anchorage State: AK Zip Code: 99501 Project Name: Homer Airport Project No.:	Report to Contact: Jayne Archer Sampler's Name: [Signature] Printed Name: Sam Bundy	Telephone No. / Email: 907-644-2400 Analyst: BUES INC Lab Quota No.: 00104256 Page 1 of 3	Barcode: XE27026 ETOZ Flammable / Cooler I.D.	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Sample ID / Description (Containers for each sample may be combined on one line.)</th> <th rowspan="2">P.O. No.</th> <th rowspan="2">Collection Date</th> <th rowspan="2">Collection Time (Military)</th> <th colspan="10">No of Containers by Preservative Type</th> </tr> <tr> <th>Acid</th> <th>Formal</th> <th>Form</th> <th>Form</th> <th>Form</th> <th>Form</th> <th>Form</th> <th>Form</th> <th>Form</th> <th>Form</th> <th>Form</th> </tr> </thead> <tbody> <tr><td>SB13-1</td><td>5-16-22</td><td>0301</td><td>0301</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB14-2</td><td></td><td></td><td>0238</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB18-1</td><td></td><td></td><td>0215</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB19-1</td><td></td><td></td><td>0253</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB17-1</td><td></td><td></td><td>0209</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB12-1</td><td></td><td></td><td>0253</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB11-1</td><td></td><td></td><td>0243</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB16-1</td><td></td><td></td><td>0204</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>SB14-1</td><td></td><td></td><td>0307</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td>GAC-2</td><td></td><td></td><td>0545</td><td>X</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Sample ID / Description (Containers for each sample may be combined on one line.)	P.O. No.	Collection Date	Collection Time (Military)	No of Containers by Preservative Type										Acid	Formal	Form	Form	Form	Form	Form	Form	Form	Form	Form	SB13-1	5-16-22	0301	0301	X																	SB14-2			0238	X																	SB18-1			0215	X																	SB19-1			0253	X																	SB17-1			0209	X																	SB12-1			0253	X																	SB11-1			0243	X																	SB16-1			0204	X																	SB14-1			0307	X																	GAC-2			0545	X																
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Turn Around Time Required (Prior Lab approval required for expedited TAT): <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)				Possible Hazard Identification: <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Fungus <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Microbial																																																																																																																																																																																																																																											
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4. Relinquished by: Fedex Date: 5/17/22 Time: 0440 Note: All samples are retained for four weeks from receipt unless other arrangements are made.				4. Laboratory received by: [Signature] Date: 5/17/22 Time: 0940 Temp Blank <input checked="" type="checkbox"/> <input type="checkbox"/> N																																																																																																																																																																																																																																											

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Sample(s). PINK-Field/Client Copy
 Document Number: MEG0002-01

PACE ANALYTICAL SERVICES, LLC



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive - West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134047

Client: BLES, Inc.		Telephone No. / E-mail: 907-644-2500		Quits No. 06107286
Address: 1042 E 6th Ave		Analyst: Jayne Martin		Page 2 of 3
City: Anchorage	State: AK	Zip Code: 99501	XE27026 ETR# XE27026 Remarks / Cooler I.D.	
Project Name: Homes Airport		Printed Name: Sam Bundy		
Project No.	P.O. No.	Collection Date(s)	Collection Time (Military)	No. of Containers by Preservative Type
				Aspirate
				Soil
				Urine
				AWM
				ICE
				M24
				M20
				M25
				M26
				M27
				M28
				M29
				M30
				M31
				M32
				M33
				M34
				M35
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				M94
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				M97
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				M100

Document Number: M650302-01

PACE ANALYTICAL SERVICES, LLC



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 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134048

Client BOES, Inc.	Report to Contact Jayal Martin	Telephone No. / E-mail 903-644-2900	Quote No. 00107286
Address 1042 E Gin Ave	Sampler's Signature 	Analytix (fill out list if more space is needed)	
City Anderson	State SC	Page 3 of 3	
Zip Code 29601	Project Name Home Airport	XE27026 ETEZ Moments / Cooler ID.	
Project No.	Project Name Home Airport		
Sample ID / Description EB-573	Collection time (M:SS)	No. of Containers by Preservative type 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	
Collection Container	Collection time (M:SS)	Matrix 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.	
P.O. No.	Collection time (M:SS)	Possible Hazard Identification <input type="checkbox"/> No-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown	
Sample ID / Description EB-573	Collection time (M:SS)	Turn Around Time Required (Prior lab approval required for unspecified MAT) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	
Collection Container	Collection time (M:SS)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposed by Lab	
Collection Container	Collection time (M:SS)	1. Refrigerated by Date: 5/21/10 Time: 10:00	
Collection Container	Collection time (M:SS)	2. Refrigerated by Date: _____ Time: _____	
Collection Container	Collection time (M:SS)	3. Refrigerated by Date: _____ Time: _____	
Collection Container	Collection time (M:SS)	4. Refrigerated by Date: 5/21/10 Time: 09:40	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		CC Requirements (Specify) LEAD II	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		1. Received by Date: _____ Time: _____	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		2. Received by Date: _____ Time: _____	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		3. Received by Date: _____ Time: _____	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		4. Laboratory received by Date: 5/21/10 Time: 09:40	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY Received on ice (Circle) Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Ice Pack <input type="checkbox"/>	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		Receipt Temp. 7.7 °C	

Document Number: MED0302-01

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Samples Receipt Checklist (SRC) (ME0018C-15)

Revised: 9/29/2020

Issuing Authority: Pace ENV - WCOL

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGECS

Cooler Inspected by/date: TEC / 05/27/2022

Lot #: X1E27026

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	1. Were custody seals present on the cooler?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: 21-852 Chlorine Strip ID: NA Tested by: TEC	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: 22-480	
7.7 / 7.7 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # _____
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Sample(s) NA were received with TRC > 0.5 mg/L (If #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₄) with Shealy ID: NA	
SR barcode labels applied by: TEC Date: 05/27/2022	

Comments:

BGES, Inc. - Anchorage, AK

Sample Delivery Group: L1498544

Samples Received: 05/27/2022

Project Number:

Description:

Report To: BGES

1042 E 6th Ave.

Anchorage, AK 99501

Entire Report Reviewed By:

Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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¹ Cp
² Tc
³ Ss
⁴ Cn
⁵ Gl
⁶ Al
⁷ Sc

SAMPLE SUMMARY

SB6-1 L1498544-01 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:05
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB24-1 L1498544-02 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 10:44
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB5-1 L1498544-03 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 12:55
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB6-3 L1498544-04 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:13
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB7-1 L1498544-05 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:40
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB26-1 L1498544-06 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 11:08
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB25-1 L1498544-07 Solid

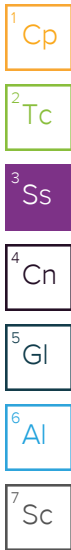
Collected by: Sam Bundy
 Collected date/time: 05/23/22 10:55
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB4-1 L1498544-08 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 12:22
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB28-1 L1498544-09 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 12:02
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB27-1 L1498544-10 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 11:39
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB8-1 L1498544-11 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:56
 Received date/time: 05/27/22 10:51

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1870784	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Gl
- ⁶Al
- ⁷Sc

Project Comments

L1498544 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11 contains subout data that is included after the chain of custody.

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Gl

⁶ Al

⁷ Sc

ACCREDITATIONS & LOCATIONS

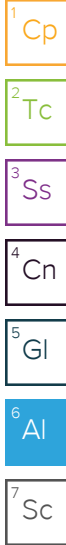
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



L1498544

Number 134049



PACE ANALYTICAL SERVICES, LLC
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106 Vantage Point Drive West Columbia, SC 29172 803-791-9700 www.pacelabs.com

Client: BGES
Report to Contact: Jayne Martin
Telephone No. / E-mail: Jayne@BGESinc.com
Quote No.: 00107286
Address: 1042 E 6th Ave
Sampler's Signature: [Signature]
Analysis (Attach list if more space is needed)

City: Anchorage State: AK Zip Code: 99501
Project Name: Homer Airport
Printed Name: Sam Bundy

Table with columns: Project No., P.O. No., Sample ID / Description, Collection Date(s), Collection Time (Military), Matrix (Aqueous, Solid, Volatile, Unpres.), and No of Containers by Preservative Type (H2SO4, HNO3, HCl, NaOH, 5035 Hg, Field Filtered). Rows include SB7-2, SB27-2, and EB-523.

Turn Around Time Required (Prior lab approval required for expedited TAT.)
Sample Disposal: [X] Disposal by Lab
Possible Hazard Identification: [X] Unknown
QC Requirements (Specify): Level II
1. Relinquished by [Signature] Date: 5/25/22 Time: 0830
2. Relinquished by [Signature] Date: [] Time: []
3. Relinquished by [Signature] Date: [] Time: []
4. Relinquished by FedEx Date: 5/26/22 Time: 1600
LAB USE ONLY: Received on ice (Circle) (Yes) No Ice Pack Receipt Temp. 5.7°C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

SHEALY ENVIRONMENTAL SERVICES, INC.

L1498544

Number 134045



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 106 Vantage Point Drive West Columbia, SC 29172 803-791-9700 www.pacelabs.com

Client BGES		Report to Contact Jayne Martin		Telephone No. / E-mail 907-244-2460 Jayne@BGES, Inc		Quote No. 00107286	
Address 1042 E 6th Ave		Sampler's Signature 		Analysis (Attach list if more space is needed)		Page 2 of 3	
City Anchorage	State AK	Zip Code 99501	Printed Name Sam Bundy		 XE26066 ETB2 Remarks / Cooler I.D.		
Project Name Homer Airport							

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No of Containers by Preservative Type											Remarks / Cooler I.D.		
				Aqueous	Solid	Other	Urease	H2SO4	HNO3	HCl	NaOH	6035 KCl	Field Filtered				
SB8-1	5/23/22	1356	G	X			X										
SB 4-2		1227	G	X			X										Hold
SB 28-2		1216	G	X			1										Hold
SB 5-2		1300	G	X			1										Hold
SB 25-2		1059	G	X			1										Hold
SB 26-2		1116	G	X			1										Hold
SB 6-2		1310	G	X			1										Hold
SB 24-2		1049	G	X			1										Hold
SB 26-2		1118	G	X			1										Hold
SB 8-2		1401	G	X			1										Hold

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown	QC Requirements (Specify) Level II
1. Relinquished by	Date _____ Time _____	1. Received by _____	Date _____ Time _____
2. Relinquished by _____	Date _____ Time _____	2. Received by _____	Date _____ Time _____
3. Relinquished by _____	Date _____ Time _____	3. Received by _____	Date _____ Time _____
4. Relinquished by Fed Ex	Date 5-25-22 Time 1600	4. Laboratory received by	Date 5-25-22 Time 1600
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY Received on ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Ice Pack	Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Receipt Temp. 5.7 °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

SHEALY ENVIRONMENTAL SERVICES, INC.

Homer Airport, XE26066 Sample Receiving Summary v2.2 Page: 8 of 10



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1870784
Lot Number: **XE26066**
Date Completed: 07/01/2022

07/05/2022 12:46 PM
Approved and released by:
Project Manager II: **Edward Barnett**



The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE26066

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE26066-002, XE26066-007, XE26066-009, XE26066-010. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside the upper control limit: XE26066-001. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside control limits: XE26066-011. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE26066
Project Name: Homer Airport
Project Number: WG1870784

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB6-1	Solid	05/23/2022 1305	05/26/2022
002	SB24-1	Solid	05/23/2022 1044	05/26/2022
003	SB5-1	Solid	05/23/2022 1255	05/26/2022
004	SB6-3	Solid	05/23/2022 1313	05/26/2022
005	SB7-1	Solid	05/23/2022 1340	05/26/2022
006	SB26-1	Solid	05/23/2022 1108	05/26/2022
007	SB25-1	Solid	05/23/2022 1055	05/26/2022
008	SB4-1	Solid	05/23/2022 1222	05/26/2022
009	SB28-1	Solid	05/23/2022 1202	05/26/2022
010	SB27-1	Solid	05/23/2022 1139	05/26/2022
011	SB8-1	Solid	05/23/2022 1356	05/26/2022
012	SB4-2	Solid	05/23/2022 1227	05/26/2022
013	SB28-2	Solid	05/23/2022 1216	05/26/2022
014	SB5-2	Solid	05/23/2022 1300	05/26/2022
015	SB25-2	Solid	05/23/2022 1059	05/26/2022
016	SB26-2	Solid	05/23/2022 1116	05/26/2022
017	SB6-2	Solid	05/23/2022 1310	05/26/2022
018	SB24-2	Solid	05/23/2022 1049	05/26/2022
019	SB26-2	Solid	05/23/2022 1118	05/26/2022
020	SB8-2	Solid	05/23/2022 1401	05/26/2022
021	SB7-2	Solid	05/23/2022 1348	05/26/2022
022	SB27-2	Solid	05/23/2022 1148	05/26/2022
023	EB-523	Aqueous	05/23/2022 1505	

(23 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Pace Analytical LLC
Lot Number: XE26066
Project Name: Homer Airport
Project Number: WG1870784

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB6-1	Solid	EtFOSAA	PFAS by ID	0.30	J	ug/kg	7
001	SB6-1	Solid	PFDS	PFAS by ID	0.62	J	ug/kg	7
001	SB6-1	Solid	PFHpS	PFAS by ID	0.62	J	ug/kg	7
001	SB6-1	Solid	PFNS	PFAS by ID	1.7		ug/kg	7
001	SB6-1	Solid	PFOSA	PFAS by ID	0.30	J	ug/kg	7
001	SB6-1	Solid	PFPeS	PFAS by ID	0.18	J	ug/kg	7
001	SB6-1	Solid	PFHxS	PFAS by ID	7.6		ug/kg	7
001	SB6-1	Solid	PFDA	PFAS by ID	0.20	J	ug/kg	7
001	SB6-1	Solid	PFHxA	PFAS by ID	0.20	J	ug/kg	7
001	SB6-1	Solid	PFOA	PFAS by ID	0.29	J	ug/kg	7
001	SB6-1	Solid	PFOS	PFAS by ID	240		ug/kg	7
002	SB24-1	Solid	PFHxS	PFAS by ID	0.46	J	ug/kg	9
002	SB24-1	Solid	PFDoA	PFAS by ID	0.23	J	ug/kg	9
002	SB24-1	Solid	PFOS	PFAS by ID	2.8		ug/kg	9
003	SB5-1	Solid	PFHxS	PFAS by ID	0.44	J	ug/kg	11
003	SB5-1	Solid	PFOS	PFAS by ID	4.1		ug/kg	11
004	SB6-3	Solid	PFHpS	PFAS by ID	0.35	J	ug/kg	13
004	SB6-3	Solid	PFNS	PFAS by ID	0.34	J	ug/kg	13
004	SB6-3	Solid	PFHxS	PFAS by ID	2.8		ug/kg	13
004	SB6-3	Solid	PFOS	PFAS by ID	190		ug/kg	13
005	SB7-1	Solid	PFHxS	PFAS by ID	0.45	J	ug/kg	15
005	SB7-1	Solid	PFOS	PFAS by ID	5.1		ug/kg	15
006	SB26-1	Solid	PFOS	PFAS by ID	1.1		ug/kg	17
007	SB25-1	Solid	PFOS	PFAS by ID	0.55	J	ug/kg	19
008	SB4-1	Solid	PFBS	PFAS by ID	0.19	J	ug/kg	21
008	SB4-1	Solid	PFHpS	PFAS by ID	0.19	J	ug/kg	21
008	SB4-1	Solid	PFPeS	PFAS by ID	0.31	J	ug/kg	21
008	SB4-1	Solid	PFHxS	PFAS by ID	3.8		ug/kg	21
008	SB4-1	Solid	PFHxA	PFAS by ID	0.25	J	ug/kg	21
008	SB4-1	Solid	PFOS	PFAS by ID	27		ug/kg	21
009	SB28-1	Solid	PFPeS	PFAS by ID	0.22	J	ug/kg	23
009	SB28-1	Solid	PFHxS	PFAS by ID	0.74	J	ug/kg	23
009	SB28-1	Solid	PFOS	PFAS by ID	2.1		ug/kg	23
010	SB27-1	Solid	PFBS	PFAS by ID	0.47	J	ug/kg	25
010	SB27-1	Solid	PFHpS	PFAS by ID	0.49	J	ug/kg	25
010	SB27-1	Solid	PFPeS	PFAS by ID	1.2	J	ug/kg	25
010	SB27-1	Solid	PFHxS	PFAS by ID	9.1		ug/kg	25
010	SB27-1	Solid	PFHpA	PFAS by ID	0.36	J	ug/kg	25
010	SB27-1	Solid	PFHxA	PFAS by ID	0.49	J	ug/kg	25
010	SB27-1	Solid	PFOA	PFAS by ID	0.40	J	ug/kg	25
010	SB27-1	Solid	PFPeA	PFAS by ID	0.29	J	ug/kg	25
010	SB27-1	Solid	PFOS	PFAS by ID	67		ug/kg	25
011	SB8-1	Solid	8:2 FTS	PFAS by ID	0.61	JQ	ug/kg	27

Detection Summary (Continued)

Lot Number: XE26066

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
011	SB8-1	Solid	EiFOSAA	PFAS by ID	7.9		ug/kg	27
011	SB8-1	Solid	PFDS	PFAS by ID	0.62	J	ug/kg	27
011	SB8-1	Solid	PFOSA	PFAS by ID	0.34	J	ug/kg	27
011	SB8-1	Solid	PFHxS	PFAS by ID	0.68	J	ug/kg	27
011	SB8-1	Solid	PFDA	PFAS by ID	0.27	J	ug/kg	27
011	SB8-1	Solid	PFUdA	PFAS by ID	0.19	J	ug/kg	27
011	SB8-1	Solid	PFOS	PFAS by ID	4.0		ug/kg	27

(50 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-001
Description: SB6-1	Matrix: Solid
Date Sampled: 05/23/2022 1305	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 92.4 05/29/2022 1917

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1902	ASD	06/06/2022 1939	43999
2	SOP SPE	PFAS by ID SOP	5	06/16/2022 1331	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	1.9	0.26	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	1.9	0.29	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.9	0.20	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	0.30	J	1.9	0.27	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.9	0.37	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.93	0.12	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	0.62	J	0.93	0.21	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.62	J	0.93	0.16	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	1.7		0.93	0.21	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	0.30	J	0.93	0.16	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.18	J	0.93	0.17	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	7.6		0.93	0.16	ug/kg	1
Perfluoro-n-butyric acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.93	0.39	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.20	J	0.93	0.15	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.93	0.13	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.20	J	0.93	0.17	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.93	0.14	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.29	J	0.93	0.20	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.93	0.15	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.93	0.18	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	240		4.7	1.7	ug/kg	2

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS		136	25-150		96	25-150
13C2_6:2FTS	N	153	25-150		100	25-150
13C2_8:2FTS	N	186	25-150		102	25-150
13C2_PFDaA		117	25-150		96	25-150
13C2_PFTeDA		107	25-150		93	25-150
13C3_PFBs		106	25-150		94	25-150
13C3_PFHxS		110	25-150		93	25-150
13C4_PFBa		106	25-150		94	25-150
13C4_PFHpA		115	25-150		97	25-150
13C5_PFHxA		105	25-150		96	25-150
13C5_PFPeA		101	25-150		90	25-150
13C6_PFDa		116	25-150		98	25-150
13C7_PFUdA		118	25-150		98	25-150
13C8_PFOA		105	25-150		100	25-150
13C8_PFOs		106	25-150		96	25-150
13C8_PFOsA		102	10-150		89	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-001
Description: SB6-1	Matrix: Solid
Date Sampled: 05/23/2022 1305	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 92.4 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		101	25-150		98	25-150
d5-EtFOSAA		137	25-150		98	25-150
d-MeFOSA		88	10-150		87	10-150
d3-MeFOSAA		131	25-150		97	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-002
Description: SB24-1	Matrix: Solid
Date Sampled: 05/23/2022 1044	Project Name: Homer Airport
Date Received: 05/26/2022	% Solids: 83.1 05/29/2022 1917
Project Number: WG1870784	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1913	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.0	0.28	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.0	0.31	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.0	0.22	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.0	0.29	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.40	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.0	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.46	J	1.0	0.18	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.0	0.42	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	0.23	J	1.0	0.18	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.0	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.0	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.8		1.0	0.36	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	223	25-150
13C2_6:2FTS	N	249	25-150
13C2_8:2FTS	N	337	25-150
13C2_PFDaA		104	25-150
13C2_PFTeDA		84	25-150
13C3_PFBs		97	25-150
13C3_PFHxS		103	25-150
13C4_PFBa		98	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		93	25-150
13C6_PFDa		110	25-150
13C7_PFUdA		109	25-150
13C8_PFOA		96	25-150
13C8_PFOs		96	25-150
13C8_PFOsA		96	10-150
13C9_PFNa		104	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-002
Description: SB24-1	Matrix: Solid
Date Sampled: 05/23/2022 1044	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 83.1 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		143	25-150
d-MeFOSA		73	10-150
d3-MeFOSAA		138	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-003
Description: SB5-1	Matrix: Solid
Date Sampled: 05/23/2022 1255	Project Name: Homer Airport
Date Received: 05/26/2022	% Solids: 94.2 05/29/2022 1917
Project Number: WG1870784	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1924	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		1.9	0.26	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		1.9	0.29	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.9	0.20	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		1.9	0.27	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.9	0.37	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.93	0.12	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.93	0.21	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.93	0.21	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.44	J	0.93	0.16	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.93	0.39	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.93	0.15	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.93	0.13	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.93	0.14	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.93	0.20	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.93	0.15	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.93	0.18	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.1		0.93	0.33	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		108	25-150
13C2_6:2FTS		110	25-150
13C2_8:2FTS		144	25-150
13C2_PFDaA		124	25-150
13C2_PFTeDA		110	25-150
13C3_PFBs		105	25-150
13C3_PFHxS		113	25-150
13C4_PFBa		104	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		103	25-150
13C5_PFPeA		101	25-150
13C6_PFDa		110	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		104	25-150
13C8_PFOs		108	25-150
13C8_PFOsA		106	10-150
13C9_PFNa		104	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-003
Description: SB5-1	Matrix: Solid
Date Sampled: 05/23/2022 1255	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 94.2 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		133	25-150
d-MeFOSA		93	10-150
d3-MeFOSAA		115	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-004
Description: SB6-3	Matrix: Solid
Date Sampled: 05/23/2022 1313	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 89.7 05/29/2022 1917

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1935	ASD	06/06/2022 1939	43999
2	SOP SPE	PFAS by ID SOP	5	06/16/2022 1342	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		1.9	0.27	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.9	0.21	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		1.9	0.28	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.9	0.34	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.9	0.38	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.97	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.97	0.22	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.35	J	0.97	0.17	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	0.34	J	0.97	0.21	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.97	0.17	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.97	0.18	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	2.8		0.97	0.17	ug/kg	1
Perfluoro-n-butyric acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.97	0.40	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.97	0.15	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.97	0.17	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.97	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.97	0.18	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.97	0.14	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.97	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.97	0.15	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.97	0.18	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.97	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.97	0.18	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	190		4.8	1.7	ug/kg	2

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS		116	25-150		98	25-150
13C2_6:2FTS		111	25-150		92	25-150
13C2_8:2FTS		137	25-150		99	25-150
13C2_PFDaA		111	25-150		95	25-150
13C2_PFTeDA		104	25-150		94	25-150
13C3_PFBs		99	25-150		95	25-150
13C3_PFHxS		106	25-150		92	25-150
13C4_PFBa		99	25-150		98	25-150
13C4_PFHpA		104	25-150		95	25-150
13C5_PFHxA		103	25-150		98	25-150
13C5_PFPeA		95	25-150		93	25-150
13C6_PFDa		107	25-150		93	25-150
13C7_PFUdA		111	25-150		100	25-150
13C8_PFOA		99	25-150		95	25-150
13C8_PFOs		99	25-150		95	25-150
13C8_PFOsA		97	10-150		95	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-004
Description: SB6-3	Matrix: Solid
Date Sampled: 05/23/2022 1313	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 89.7 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		91	25-150		103	25-150
d5-EtFOSAA		129	25-150		100	25-150
d-MeFOSA		85	10-150		91	10-150
d3-MeFOSAA		115	25-150		101	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-005
Description: SB7-1	Matrix: Solid
Date Sampled: 05/23/2022 1340	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 95.9 05/29/2022 1917

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1946	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.0	0.28	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.31	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.22	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.0	0.30	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.40	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.0	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.45	J	1.0	0.18	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.0	0.43	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	5.1		1.0	0.36	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		74	25-150
13C2_6:2FTS		82	25-150
13C2_8:2FTS		111	25-150
13C2_PFDaA		75	25-150
13C2_PFTeDA		69	25-150
13C3_PFBS		65	25-150
13C3_PFHxS		70	25-150
13C4_PFBA		66	25-150
13C4_PFHpA		66	25-150
13C5_PFHxA		63	25-150
13C5_PFPeA		62	25-150
13C6_PFDA		70	25-150
13C7_PFUdA		70	25-150
13C8_PFOA		63	25-150
13C8_PFOS		69	25-150
13C8_PFOSA		65	10-150
13C9_PFNA		68	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-005
Description: SB7-1	Matrix: Solid
Date Sampled: 05/23/2022 1340	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 95.9 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		91	25-150
d-MeFOSA		55	10-150
d3-MeFOSAA		74	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-006
Description: SB26-1	Matrix: Solid
Date Sampled: 05/23/2022 1108	Project Name: Homer Airport
Date Received: 05/26/2022	% Solids: 92.4 05/29/2022 1917
Project Number: WG1870784	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1957	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.1	0.29	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.1	0.32	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.1	0.23	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.1	0.30	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.1	0.42	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.44	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.22	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.1		1.1	0.37	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		96	25-150
13C2_6:2FTS		102	25-150
13C2_8:2FTS		122	25-150
13C2_PFDaA		101	25-150
13C2_PFTeDA		101	25-150
13C3_PFBs		95	25-150
13C3_PFHxS		103	25-150
13C4_PFBa		94	25-150
13C4_PFHpA		94	25-150
13C5_PFHxA		92	25-150
13C5_PFPeA		93	25-150
13C6_PFDa		97	25-150
13C7_PFUdA		100	25-150
13C8_PFOA		94	25-150
13C8_PFOs		102	25-150
13C8_PFOsA		96	10-150
13C9_PFNa		97	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-006
Description: SB26-1	Matrix: Solid
Date Sampled: 05/23/2022 1108	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 92.4 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		113	25-150
d-MeFOSA		88	10-150
d3-MeFOSAA		105	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-007
Description: SB25-1	Matrix: Solid
Date Sampled: 05/23/2022 1055	Project Name: Homer Airport
Date Received: 05/26/2022	% Solids: 92.2 05/29/2022 1917
Project Number: WG1870784	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2008	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	1.9	0.25	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		1.9	0.28	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.9	0.20	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		1.9	0.27	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.9	0.37	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.93	0.12	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.93	0.21	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.93	0.20	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.93	0.39	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.93	0.15	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.93	0.13	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.93	0.14	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.93	0.20	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.93	0.15	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.93	0.18	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	0.55	J	0.93	0.33	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		114	25-150
13C2_6:2FTS		134	25-150
13C2_8:2FTS	N	164	25-150
13C2_PFDaA		114	25-150
13C2_PFTeDA		105	25-150
13C3_PFBs		101	25-150
13C3_PFHxS		112	25-150
13C4_PFBa		102	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		101	25-150
13C5_PFPeA		99	25-150
13C6_PFDa		105	25-150
13C7_PFUdA		112	25-150
13C8_PFOA		97	25-150
13C8_PFOs		106	25-150
13C8_PFOsA		100	10-150
13C9_PFNa		105	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-007
Description: SB25-1	Matrix: Solid
Date Sampled: 05/23/2022 1055	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 92.2 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		139	25-150
d-MeFOSA		90	10-150
d3-MeFOSAA		125	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-008
Description: SB4-1	Matrix: Solid
Date Sampled: 05/23/2022 1222	Project Name: Homer Airport
Date Received: 05/26/2022	% Solids: 85.6 05/29/2022 1917
Project Number: WG1870784	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2019	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.2	0.30	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.2	0.33	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.43	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.19	J	1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.19	J	1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.31	J	1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	3.8		1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.45	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.25	J	1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	27		1.1	0.39	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		102	25-150
13C2_6:2FTS		117	25-150
13C2_8:2FTS		117	25-150
13C2_PFDaA		105	25-150
13C2_PFTeDA		104	25-150
13C3_PFBs		96	25-150
13C3_PFHxS		103	25-150
13C4_PFBa		100	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		93	25-150
13C5_PFPeA		95	25-150
13C6_PFDa		101	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		94	25-150
13C8_PFOs		103	25-150
13C8_PFOsA		95	10-150
13C9_PFNa		100	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-008
Description: SB4-1	Matrix: Solid
Date Sampled: 05/23/2022 1222	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 85.6 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		122	25-150
d-MeFOSA		91	10-150
d3-MeFOSAA		111	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-009
Description: SB28-1	Matrix: Solid
Date Sampled: 05/23/2022 1202	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 86.9 05/29/2022 1917

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2030	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.3	0.31	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.3	0.35	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.3	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.3	0.33	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.39	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	2.3	0.45	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.22	J	1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.74	J	1.1	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.47	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.1		1.1	0.40	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	173	25-150
13C2_6:2FTS	N	201	25-150
13C2_8:2FTS	N	265	25-150
13C2_PFDaA		110	25-150
13C2_PFTeDA		94	25-150
13C3_PFBs		97	25-150
13C3_PFHxS		106	25-150
13C4_PFBa		99	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		97	25-150
13C5_PFPeA		96	25-150
13C6_PFDa		108	25-150
13C7_PFUdA		113	25-150
13C8_PFOA		98	25-150
13C8_PFOs		105	25-150
13C8_PFOsA		99	10-150
13C9_PFNa		108	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-009
Description: SB28-1	Matrix: Solid
Date Sampled: 05/23/2022 1202	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 86.9 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	155	25-150
d-MeFOSA		77	10-150
d3-MeFOSAA	N	151	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-010
Description: SB27-1	Matrix: Solid
Date Sampled: 05/23/2022 1139	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 45.9 05/29/2022 1917

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2102	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.7	0.50	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.7	0.56	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.7	0.40	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.7	0.53	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.7	0.64	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.7	0.72	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	0.47	J	1.8	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.8	0.41	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.49	J	1.8	0.32	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.8	0.40	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	1.2	J	1.8	0.34	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	9.1		1.8	0.32	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.8	0.76	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.8	0.29	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.36	J	1.8	0.26	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.49	J	1.8	0.34	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.8	0.27	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.40	J	1.8	0.39	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.29	J	1.8	0.29	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.8	0.35	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	67		1.8	0.65	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	214	25-150
13C2_6:2FTS	N	248	25-150
13C2_8:2FTS	N	338	25-150
13C2_PFDaA		107	25-150
13C2_PFTeDA		85	25-150
13C3_PFBs		99	25-150
13C3_PFHxS		109	25-150
13C4_PFBa		97	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		103	25-150
13C5_PFPeA		95	25-150
13C6_PFDa		108	25-150
13C7_PFUdA		109	25-150
13C8_PFOA		99	25-150
13C8_PFOs		101	25-150
13C8_PFOsA		95	10-150
13C9_PFNa		106	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-010
Description: SB27-1	Matrix: Solid
Date Sampled: 05/23/2022 1139	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 45.9 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		150	25-150
d-MeFOSA		65	10-150
d3-MeFOSAA		143	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-011
Description: SB8-1	Matrix: Solid
Date Sampled: 05/23/2022 1356	Project Name: Homer Airport
Date Received: 05/26/2022	% Solids: 96.7 05/29/2022 1917
Project Number: WG1870784	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 2113	ASD	06/06/2022 1939	43999

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	0.61	JQ	1.9	0.26	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		1.9	0.29	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.9	0.20	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	7.9		1.9	0.27	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.9	0.37	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.93	0.12	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	0.62	J	0.93	0.21	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.93	0.21	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	0.34	J	0.93	0.16	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.68	J	0.93	0.16	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.93	0.39	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.27	J	0.93	0.15	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDaA)	307-55-1	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.93	0.13	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.93	0.17	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.93	0.14	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.93	0.20	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.93	0.15	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.93	0.18	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.93	0.16	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	0.19	J	0.93	0.17	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.0		0.93	0.33	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		144	25-150
13C2_6:2FTS		143	25-150
13C2_8:2FTS	N	207	25-150
13C2_PFDaA		120	25-150
13C2_PFTeDA		99	25-150
13C3_PFBs		102	25-150
13C3_PFHxS		111	25-150
13C4_PFBa		103	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		101	25-150
13C5_PFPeA		98	25-150
13C6_PFDa		114	25-150
13C7_PFUdA		112	25-150
13C8_PFOA		96	25-150
13C8_PFOs		109	25-150
13C8_PFOsA		94	10-150
13C9_PFNa		101	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE26066-011
Description: SB8-1	Matrix: Solid
Date Sampled: 05/23/2022 1356	Project Name: Homer Airport
Date Received: 05/26/2022	Project Number: WG1870784
	% Solids: 96.7 05/29/2022 1917

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		148	25-150
d-MeFOSA		88	10-150
d3-MeFOSAA		127	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ43999-001

Matrix: Solid

Batch: 43999

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1939

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/15/2022 1618
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/15/2022 1618
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/15/2022 1618
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/15/2022 1618
MeFOSA	ND		1	2.0	0.35	ug/kg	06/15/2022 1618
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/15/2022 1618
PFBS	ND		1	1.0	0.13	ug/kg	06/15/2022 1618
PFDS	ND		1	1.0	0.22	ug/kg	06/15/2022 1618
PFHpS	ND		1	1.0	0.18	ug/kg	06/15/2022 1618
PFNS	ND		1	1.0	0.22	ug/kg	06/15/2022 1618
PFOSA	ND		1	1.0	0.18	ug/kg	06/15/2022 1618
PFPeS	ND		1	1.0	0.19	ug/kg	06/15/2022 1618
PFHxS	ND		1	1.0	0.18	ug/kg	06/15/2022 1618
PFBA	ND		1	1.0	0.42	ug/kg	06/15/2022 1618
PFDA	ND		1	1.0	0.16	ug/kg	06/15/2022 1618
PFDaA	ND		1	1.0	0.18	ug/kg	06/15/2022 1618
PFHpA	ND		1	1.0	0.14	ug/kg	06/15/2022 1618
PFHxA	ND		1	1.0	0.18	ug/kg	06/15/2022 1618
PFNA	ND		1	1.0	0.15	ug/kg	06/15/2022 1618
PFOA	ND		1	1.0	0.21	ug/kg	06/15/2022 1618
PFPeA	ND		1	1.0	0.16	ug/kg	06/15/2022 1618
PFTeDA	ND		1	1.0	0.19	ug/kg	06/15/2022 1618
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/15/2022 1618
PFUdA	ND		1	1.0	0.18	ug/kg	06/15/2022 1618
PFOS	ND		1	1.0	0.36	ug/kg	06/15/2022 1618

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		96	25-150
13C2_6:2FTS		98	25-150
13C2_8:2FTS		98	25-150
13C2_PFDaA		95	25-150
13C2_PFTeDA		99	25-150
13C3_PFBs		96	25-150
13C3_PFHxS		99	25-150
13C4_PFBa		99	25-150
13C4_PFHpA		101	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		96	25-150
13C6_PFDa		98	25-150
13C7_PFUdA		94	25-150
13C8_PFOA		97	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43999-001

Matrix: Solid

Batch: 43999

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1939

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		100	25-150
13C8_PFOA		93	10-150
13C9_PFOA		96	25-150
d5-EtFOSAA		101	25-150
d-MeFOA		89	10-150
d3-MeFOSAA		96	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43999-002

Matrix: Solid

Batch: 43999

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1939

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.9		1	99	50-150	06/15/2022 1629
6:2 FTS	1.9	1.8		1	96	50-150	06/15/2022 1629
4:2 FTS	1.9	2.0		1	107	50-150	06/15/2022 1629
EtFOSAA	2.0	2.0		1	101	50-150	06/15/2022 1629
MeFOSA	2.0	2.3		1	115	50-150	06/15/2022 1629
MeFOSAA	2.0	2.2		1	108	50-150	06/15/2022 1629
PFBS	1.8	1.8		1	105	50-150	06/15/2022 1629
PFDS	1.9	2.1		1	109	50-150	06/15/2022 1629
PFHpS	1.9	2.1		1	113	50-150	06/15/2022 1629
PFNS	1.9	2.1		1	108	50-150	06/15/2022 1629
PFOSA	2.0	2.1		1	105	50-150	06/15/2022 1629
PFPeS	1.9	2.0		1	105	50-150	06/15/2022 1629
PFHxS	1.8	1.9		1	105	50-150	06/15/2022 1629
PFBA	2.0	2.2		1	109	50-150	06/15/2022 1629
PFDA	2.0	2.0		1	100	50-150	06/15/2022 1629
PFDoA	2.0	2.0		1	102	50-150	06/15/2022 1629
PFHpA	2.0	2.1		1	105	50-150	06/15/2022 1629
PFHxA	2.0	2.1		1	103	50-150	06/15/2022 1629
PFNA	2.0	2.2		1	108	50-150	06/15/2022 1629
PFOA	2.0	2.1		1	105	50-150	06/15/2022 1629
PFPeA	2.0	2.1		1	103	50-150	06/15/2022 1629
PFTeDA	2.0	2.1		1	106	50-150	06/15/2022 1629
PFTTrDA	2.0	2.0		1	100	50-150	06/15/2022 1629
PFUdA	2.0	2.0		1	100	50-150	06/15/2022 1629
PFOS	1.9	1.9		1	103	50-150	06/15/2022 1629

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		87	25-150
13C2_6:2FTS		99	25-150
13C2_8:2FTS		103	25-150
13C2_PFDoA		99	25-150
13C2_PFTeDA		99	25-150
13C3_PFBS		100	25-150
13C3_PFHxS		103	25-150
13C4_PFBA		99	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		102	25-150
13C5_PFPeA		99	25-150
13C6_PFDA		101	25-150
13C7_PFUdA		97	25-150
13C8_PFOA		96	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43999-002

Matrix: Solid

Batch: 43999

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1939

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		103	25-150
13C8_PFOA		96	10-150
13C9_PFOA		99	25-150
d5-EtFOSAA		102	25-150
d-MeFOA		87	10-150
d3-MeFOSAA		100	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134050

Client: BG-ES 1042 E 6th Ave Anderson, SC 29624 Project Name: Home Airport Project No.		Report to Contact: Suzanne Martia Sampler's Signature: <i>[Signature]</i> Printed Name: San Bundy		Telephone No. / E-mail: 907-244-7404 / Suzanne@pacelabs.com		Disco No.: 00107286	
State: SC Zip Code: 29624		Matrix:		No. of Containers by Preservative Type:		Page: 1 of 3	
P.O. No.:		Calculation Time (M:SS):		Matrix:		Barcode: XE26066	
Sample ID / Description: (Containers for each sample may be combined on one line.)		Collection Date(s)		Matrix:		Remarks / Cooler I.D.:	
SB6-1		5/23/22 1305 G		ASMA Talc-BIS			
SB24-1		5/23/22 1044 G		ASMA Talc-BIS			
SB5-1		5/23/22 1255 G		ASMA Talc-BIS			
SB6-3		5/23/22 1313 G		ASMA Talc-BIS			
SB7-1		5/23/22 1340 G		ASMA Talc-BIS			
SB26-1		5/23/22 1108 G		ASMA Talc-BIS			
SB25-1		5/23/22 1055 G		ASMA Talc-BIS			
SB4-1		5/23/22 1222 G		ASMA Talc-BIS			
SB28-1		5/23/22 1202 G		ASMA Talc-BIS			
SB27-1		5/23/22 1139 G		ASMA Talc-BIS			

Turn Around Time Required (Prior lab approval required for expedited TAT): Standard <input type="checkbox"/> Rush (Specify) <input checked="" type="checkbox"/>		Sample Disposal: Return to Client <input type="checkbox"/>		Possible Hazard Identification: Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/>		QC Requirements (Specify): Level II	
1. Requisitioned by: <i>[Signature]</i>		2. Requisitioned by: <i>[Signature]</i>		3. Requisitioned by: Date: 5/25/22 0830 Time:		Date: Time:	
4. Requisitioned by: Fed Ex		Date: 5/27/22 Time: 1100		Date: Time:		Date: Time:	

LAB USE ONLY Received on (s) (Check) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Receptor Temp. 5.7 °C	
--	--	-----------------------	--

Note: All samples are retained for four weeks from receipt unless other arrangements are made.



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 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134045

Client BGES 1042 E 6 th Ave Anchorage, AK 99501 Project Name: Homer Airport Project No.		Report to Contact Jayne Martin Signature: <i>JM</i> Printed Name: Sam Bundy		Telephone No. / E-mail: 907-244-2800 / jayne@bges.lac.com Quote No. 00107286 Analysts (Attach list if more space is needed): Page 2 of 3	
P.O. No.		No. of Containers by Preservation Type		Barcode: XE26066 ETR# Remarks / Cooler ID.	
Sample ID / Description (Containers for each sample may be available on one line.)	Collection Date(s)	Calculation Time (Min/Sec)	Activity	Preservation Type	Remarks
SB 8-1	5/23/22	1356 G	X	X	Hold
SB 4-2		1227 G	X	X	Hold
SB 28-2		1216 G	X	I	Hold
SB 5-2		1300 G	X	I	Hold
SB 25-2		1059 G	X	I	Hold
SB 26-2		1116 G	X	I	Hold
SB 6-2		1310 G	X	I	Hold
SB 24-2		1049 G	X	I	Hold
SB 26-2		1118 G	X	I	Hold
SB 8-2		1401 G	X	I	Hold

Turn Around Time Required (Prior lab approval required for unspecified MAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Possible Hazard Identification <input type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown	OC Requirements (Specify) Level I
1. Refrigerated by: <i>JM</i> Date: _____ Time: _____	1. Received by: _____ Date: _____ Time: _____	Date: _____ Time: _____
2. Refrigerated by: _____ Date: _____ Time: _____	2. Received by: _____ Date: _____ Time: _____	Date: _____ Time: _____
3. Refrigerated by: _____ Date: _____ Time: _____	3. Received by: _____ Date: _____ Time: _____	Date: _____ Time: _____
4. Refrigerated by: Fed Ex Date: 5/26/22 Time: 1600 Note: All samples are retained for four weeks from receipt unless other arrangements are made.	4. Laboratory received by: <i>[Signature]</i> Date: 5/26/22 Time: 1600 LAB USE ONLY Received on ice (Cryo)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Is Pack: <input type="checkbox"/> Yes <input type="checkbox"/> No Ambient Temp: 5.7 °C	Date: 5/26/22 Time: 1600 Temp Blank: <input type="checkbox"/> Y <input type="checkbox"/> N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Samples(s). PINK-Field/Cient Copy



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 www.pacelabs.com

Number 134049

Client: **BGES** Telephone No. / E-mail: **Jayne@BGES-lab.com** Quote No.: **00107286**
 Address: **1042 E 6th Ave** Analyst's (Attach list if more space is needed):
 City: **Anchorage** State: **AK** Zip Code: **99501** Page: **3** of **3**
 Project Name: **Honer Airport** Printed Name: **San Bundy** Signature: *[Signature]*

Sample ID / Description (Containers for each sample may be combined on one line.)	P.D. No.	Collection Date(s)	Calculation Time (M:W:Y)	Containers		No. of Containers by Preservative Type							Matrix	Remarks / Cooler I.D.
				Analysis	Blank	Acetic	Formic	Ascorbic	None	Other	Other	Other		
SB7-2		5/23/22	1348	G	X									Hold
SB27-2		↓	1148	G	X									Hold
EB-523		↓	1505	G	X									Hold

Report to Contact: **Jayne Martin**
 Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison Unknown
 Turn Around Time Required (Filer lab approval required for expedited TAT):
 Standard Rush (Specify)
 1. Requisitioned by: *[Signature]* Date: **5/23/22** Time: **0830**
 2. Requisitioned by: _____ Date: _____ Time: _____
 3. Requisitioned by: _____ Date: _____ Time: _____
 4. Requisitioned by: *[Signature]* Date: **5/26/22** Time: **1400**
 Note: All samples are retained for four weeks from receipt unless other arrangements are made.
 Received on ice (Circle) No Yes
 Receipt Temp: **5.7** °C
 Temp Blank: Y N

Document Number: MEVSN2-01



Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGES

Cooler Inspected by/date: TBC / 05/26/2022

Lot #: XE26066

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u>	Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>22-480</u>	
5.7 / 5.7 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>NA</u>	14. Were all samples received within <u>1/2</u> the holding time or 48 hours, whichever comes first?
<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <u>6/11/22</u>	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/2" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <u>na</u>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>KDRW</u> Date: <u>05/26/2022</u>	
Comments: <u>Mrs. S. G. E. B. S. 23</u>	

BGES, Inc. - Anchorage, AK

Sample Delivery Group: L1496985
Samples Received: 05/24/2022
Project Number:
Description: Homer Airport

Report To: BGES
1042 E 6th Ave.
Anchorage, AK 99501

Entire Report Reviewed By:



Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Gl

⁶ Al

⁷ Sc

SAMPLE SUMMARY

SB141-1 L1496985-01 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 12:06
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB76-1 L1496985-02 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 13:35
 Received date/time: 05/24/22 13:35

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB78-1 L1496985-03 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 14:04
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB39-1 L1496985-04 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 11:40
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB42-1 L1496985-05 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 12:18
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB40-1 L1496985-06 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 11:50
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB188-1 L1496985-07 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 11:05
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB43-1 L1496985-08 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 12:38
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

SAMPLE SUMMARY

EB-520 L1496985-09 GW

Collected by: Sam Bundy
 Collected date/time: 05/20/22 16:28
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB85-3 L1496985-10 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 14:38
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB187-1 L1496985-11 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 09:25
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB42-3 L1496985-12 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 12:30
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB186-1 L1496985-13 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 10:40
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB88-1 L1496985-14 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 15:05
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB84-1 L1496985-15 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 14:19
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB86-1 L1496985-16 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 14:43
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

SAMPLE SUMMARY

SB85-1 L1496985-17 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 14:29
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB96-1 L1496985-18 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 15:42
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB189-1 L1496985-19 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 11:24
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB75-1 L1496985-20 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 13:24
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB77-1 L1496985-21 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 13:42
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB74-1 L1496985-22 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 13:01
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB94-1 L1496985-23 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 15:18
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB95-1 L1496985-24 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 15:29
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB87-1 L1496985-25 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 14:54
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB98-1 L1496985-26 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 16:09
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB181-2 L1496985-27 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 10:21
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB181-4 L1496985-28 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 10:25
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB97-1 L1496985-29 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 15:57
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB80-3 L1496985-30 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 16:53
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB116-1 L1496985-31 Solid

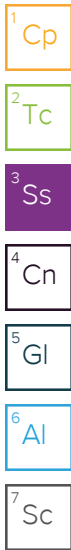
Collected by: Sam Bundy
 Collected date/time: 05/21/22 11:17
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB93-1 L1496985-32 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 15:10
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB90-1 L1496985-33 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 15:25
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB83-1 L1496985-34 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 17:14
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB92-1 L1496985-35 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 16:02
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB113-1 L1496985-36 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 14:01
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB89-1 L1496985-37 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 15:48
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB91-1 L1496985-38 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 15:36
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB114-3 L1496985-39 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 11:40
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB117-1 L1496985-40 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 12:46
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

7 Sc

SAMPLE SUMMARY

SB115-1 L1496985-42 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 12:28
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB107-1 L1496985-43 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 10:06
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB114-1 L1496985-44 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 11:31
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB118-1 L1496985-45 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 11:48
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB105-1 L1496985-46 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 10:38
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB104-1 L1496985-47 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 10:21
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB99-1 L1496985-48 Solid

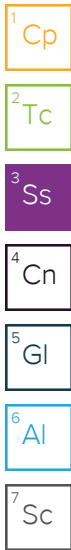
Collected by: Sam Bundy
 Collected date/time: 05/21/22 14:34
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB102-1 L1496985-49 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 14:16
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB79-1 L1496985-50 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:35
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB100-1 L1496985-51 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 14:48
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB111-1 L1496985-52 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 13:01
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB101-1 L1496985-53 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 15:05
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB106-1 L1496985-54 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 10:50
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB108-1 L1496985-55 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 09:55
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB99-3 L1496985-56 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 14:43
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB81-1 L1496985-57 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:54
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB103-1 L1496985-58 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:16
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB110-1 L1496985-59 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 13:16
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB109-1 L1496985-60 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 13:36
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB82-1 L1496985-61 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 17:06
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB80-1 L1496985-62 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:45
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB112-1 L1496985-63 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 13:04
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB72-1 L1496985-64 Solid

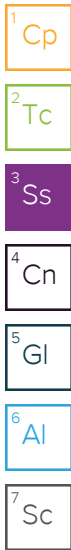
Collected by Sam Bundy
 Collected date/time 05/21/22 11:14
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB175-1 L1496985-65 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 15:55
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB177-1 L1496985-66 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:08
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB176-1 L1496985-67 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 15:41
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB34-1 L1496985-68 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 12:19
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB37-3 L1496985-69 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 11:44
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB73-1 L1496985-70 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 11:23
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB35-1 L1496985-71 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 11:51
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB38-1 L1496985-72 Solid

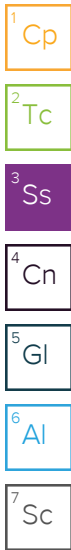
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 Collected date/time 05/21/22 12:30
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB36-1 L1496985-73 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 12:04
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB172-1 L1496985-74 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:51
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB170-1 L1496985-75 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:36
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB69-1 L1496985-76 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 10:44
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB183-1 L1496985-77 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 14:42
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB182-1 L1496985-78 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 14:52
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB70-1 L1496985-79 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 11:00
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB179-2 L1496985-80 Solid

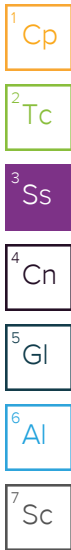
Collected by Sam Bundy
 Collected date/time 05/21/22 15:09
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB179-4 L1496985-81 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 15:14
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB178-1 L1496985-82 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:17
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB71-1 L1496985-83 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 10:32
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB171-1 L1496985-84 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:24
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB169-1 L1496985-85 Solid

Collected by Sam Bundy
 Collected date/time 05/21/22 16:44
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

EB-521 L1496985-86 GW

Collected by Sam Bundy
 Collected date/time 05/21/22 17:35
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

EB-522 L1496985-87 GW

Collected by Sam Bundy
 Collected date/time 05/21/22 17:25
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB184-1 L1496985-88 Solid

Collected by Sam Bundy
 Collected date/time 05/22/22 14:26
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB185-1 L1496985-89 Solid

Collected by Sam Bundy
 Collected date/time 05/22/22 13:59
 Received date/time 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172



SAMPLE SUMMARY

SB173-1 L1496985-90 Solid

Collected by: Sam Bundy
 Collected date/time: 05/22/22 16:56
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB176-3 L1496985-91 Solid

Collected by: Sam Bundy
 Collected date/time: 05/22/22 15:50
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB37-1 L1496985-92 Solid

Collected by: Sam Bundy
 Collected date/time: 05/22/22 11:37
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

SB174-1 L1496985-93 Solid

Collected by: Sam Bundy
 Collected date/time: 05/22/22 15:21
 Received date/time: 05/24/22 11:34

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Subcontracted Analyses	WG1868854	1	07/11/22 00:00	07/11/22 00:00	-	West Columbia, SC 29172

1 Cp

2 Tc

3 Ss

4 Cn

5 Gl

6 Al

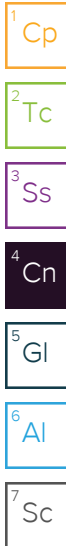
7 Sc

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager



Project Comments

L1496985 -01, -02, -03, -04, -05, -06, -07, -08, -09, -10, -11, -12, -13, -14, -15, -16, -17, -18, -19, -20, -21, -22, -23, -24, -25, -26, -27, -28, -29, -30, -31, -32, -33, -34, -35, -36, -37, -38, -39, -40, -42, -43, -44, -45, -46, -47, -48, -49, -50, -51, -52, -53, -54, -55, -56, -57, -58, -59, -60, -61, -62, -63, -64, -65, -66, -67, -68, -69, -70, -71, -72, -73, -74, -75, -76, -77, -78, -79, -80, -81, -82, -83, -84, -85, -86, -87, -88, -89, -90, -91, -92, -93 contains subout data that is included after the chain of custody.

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

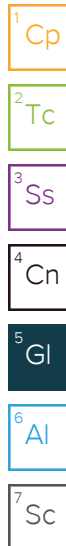
Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

SDG	Sample Delivery Group.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.



ACCREDITATIONS & LOCATIONS

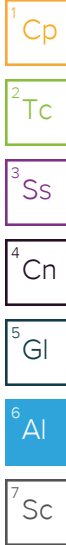
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.





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L1496985

Number 134031

Client BGES Inc			Report to Contact Jayne Martin				Telephone No. / E-mail 907-644-2900 Jayne@BGESInc.com				Quote No. 00107286						
Address 1042 E 6th Ave			Sampler's Signature 				Analysis (Attach list if more space is needed)				Page 1 of 18						
City Anchorage		State AK	Zip Code 99501		Printed Name Sam Bundy				Lot # Bar Code (lab use only)								
Project Name Homer Airport			Project No.									Remarks / Cooler I.D.					
Sample ID / Description (Containers for each sample may be combined on one line.)			P.O. No.	Collection Date(s)	Collection Time (Military)	G-Grab C-Composite	Matrix				No of Containers by Preservative Type				OSM5, 316L, B16		
						Aqueous	Solid	Non-Aqueous	Ureteric	H2SO4	HNO3	HCl	NaOH	50/50 K2		Field Filtered	
SB41-1				5-20-22	1206	G	X	/								X	1
SB76-1					1335	G	X	1								X	1
SB78-1					1404	G	X	1								X	1
SB39-1					1140	G	X	1								X	1
SB42-1					1218	G	X	1								X	1
SB40-1					1150	G	X	1								X	1
SB188-1					1106	G	X	1								X	1
SB43-1					1238	G	X	1								X	1
KB-520					1628	G	X	2							X	1	
SB76-2					1341	G	X	1								Hold	1
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab				Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown				QC Requirements (Specify) Level II						
1. Relinquished by 			Date	Time		1. Received by				Date	Time						
2. Relinquished by			Date	Time		2. Received by				Date	Time						
3. Relinquished by			Date	Time		3. Received by				Date	Time						
4. Relinquished by			Date	Time		4. Laboratory received by				Date	Time						
Note: All samples are retained for four weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on Ice (Circle) Yes No Ice Pack				Receipt Temp. _____ °C							
										Temp Blank <input type="checkbox"/> Y <input type="checkbox"/> N							

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy

Document Number: ME003N2-01

56120*
56120*

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Number 134030

Client BGES, Inc.		Report to Contact Jayne Martin		Telephone No. / E-mail 803-644-2970 Jayne@BGES Inc.com		Quote No. 00107286	
Address 1042. E. 6th Ave		Sampler's Signature 		Analysis (Attach list if more space is needed)		Page 2 of 18	
City Anchorage	State AK	Zip Code 99501	X Printed Name Sam Bundy		Lot # Bar Code (lab use only)		Remarks / Cooler I.D.
Project Name Homer Airport		Project No.		P.O. No.			

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	GeoCrab C-Composite	Matrix			No of Containers by Preservative Type							Remarks / Cooler I.D.		
				Aqueous	Solid	Non-Aqueous	Unpres.	H2SO4	HNO3	HCl	NaOH	5035 K2	Field Filtered			
SB85-3	5-20-22	1438	G	X		1									X	1
SB187-1	↓	0925	G	X		1									X	1
SB42-3		1230	G	X		1									X	1
SB186-1		1041	G	X		1									X	1
SB88-1		1505	G	X		1									X	1
SB84-1		1419	G	X		1									X	1
SB86-1		1443	G	X		1									X	1
SB85-1		1429	G	X		1									X	1
SB96-1		1542	G	X		1									X	1
SB189-1		✓	1124	G	X		1								X	1

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown				QC Requirements (Specify) Level II	
1. Relinquished by 	Date 5/23/22	Time 0830	1. Received by		Date	Time	Date	Time	
2. Relinquished by	Date	Time	2. Received by		Date	Time	Date	Time	
3. Relinquished by	Date	Time	3. Received by		Date	Time	Date	Time	
4. Relinquished by	Date	Time	4. Laboratory received by		Date	Time	Date	Time	

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. °C
 Temp Blank Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01



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www.pacelabs.com

L1496985
Number 134029

Client: **BGES, Inc.** Report to Contact: **Jayne Martin** Telephone No. / E-mail: **907-644-2900 Jayne@BGESinc.com** Quote No.: **00107286**

Address: **1042 E 6th Ave** City: **Anchorage** State: **AK** Zip Code: **99501** Sampler's Signature: Analysis (Attach list if more space is needed):
Project Name: **Homer Airport** Printed Name: **Sam Bundy** Page **3** of **18**

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No of Containers by Preservative Type											Remarks / Cooler I.D.	
				Agar/Slab C-Composite	Agarous	Solid Media	Urease	MS/D4	HN03	HCl	NaOH	5035 X2	Field Filtered			
SB75-1	5-20-22	1324	G	X	X									X		
SB77-1	↓	1342	G	X	X									X		
SB74-1		1301	G	X	X									X		
SB94-1		1518	G	X	X									X		
SB95-1		1529	G	X	X									X		
SB87-1		1454	G	X	X									X		
SB78-1		1609	G	X	X									X		
SB181-2		1021	G	X										X		
SB181-4		1025	G	X										X		
SB97-1		1557	G	X										X		

Turn Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify) _____

Sample Disposal: Return to Client Disposal by Lab

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify) **Level II**

1. Relinquished by:	Date: 5/23/22	Time: 0830	1. Received by:	Date:	Time:
2. Relinquished by:	Date:	Time:	2. Received by:	Date:	Time:
3. Relinquished by:	Date:	Time:	3. Received by:	Date:	Time:
4. Relinquished by:	Date:	Time:	4. Laboratory received by:	Date:	Time:

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. _____ °C
 Temp Blank Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

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Number 134028

Client BGES, Inc		Report to Contact Jayne Martin		Telephone No. / E-mail 907-644-2400 Jayne@BGESInc.com		Quote No. 00107286	
Address 1042 E 6th Ave		Sampler's Signature 		Analysis (Attach list if more space is needed)		Page 4 of 18	
City Anchorage	State AK	Zip Code 99501	Printed Name Sam Bundy		Lot # Bar Code (lab use only)		Remarks / Cooler I.D.
Project Name Homer Airport							

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	G-Grab or Composite	Matrix											Remarks / Cooler I.D.		
				Aqueous	Solid	Non-Aqueous	Urgency	H2SO4	HNO3	HCl	NaOH	50/50 KF	Field Filtered	No of Containers by Preservative Type			
SB95-4	5-20-22	1538	G	X													Hold 1
SB87-2	↓	1459	G	X													Hold 1
SB42-2		1226	G	X													Hold 1
SB77-2		1351	G	X													Hold 1
SB78-2		1410	G	X													Hold 1
SB98-2		1614	G	X													Hold 1
SB187-2		0930	G	X													Hold 1
SB43-2		1243	G	X													Hold 1
SB75-2		1329	G	X													Hold 1
SB97-2		1602	G	X													Hold 1

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown	QC Requirements (Specify) Level II
--	--	---	--

1. Relinquished by 	Date 5/23/22	Time 0830	1. Received by	Date	Time
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by	Date	Time

Note: All samples are retained for four weeks from receipt unless other arrangements are made.	LAB USE ONLY Received on Ice (Circle) Yes No Ice Pack	Receipt Temp. _____ °C	Temp Blank <input type="checkbox"/> Y <input type="checkbox"/> N
--	--	------------------------	--

L1496985

Shipping : 0.00
Special : 0.00
Handling : 0.00
Total : 0.00



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Number 134027

Client: **BGES, Inc**
 Report to Contact: **Jayne Martin**
 Telephone No. / E-mail: **907-644-2900**
 Address: **1042 E 6th Ave**
 Sampler's Signature: *[Signature]*
 Jayne@BGESInc.com
 City: **Anchorage** State: **AK** Zip Code: **99501**
 Printed Name: **Sam Bundy**
 Project Name: **Homer Airport**
 Quote No: **00107286**
 Analysis (Attach list if more space is needed):
 Page **5** of **18**
 Lot # Bar Code (lab use only):

Sample ID / Description (Containers for each sample may be combined on one line.)	P.O. No.	Collection Date(s)	Collection Time (Military)	Matrix	No. of Containers by Preservative Type												Remarks / Cooler I.D.
					Urine	ASPCA	HWDS	HC	Mez	ASUS KE	Field Filter	Other	Other	Other	Other	Other	
SB187-2		5-20-22	1129	G X	1												Hold 1
SB188-2		↓	1112	G X	1												Hold 1
SB39-2			1145	G X	1												Hold 1
SB186-2			1046	G X	1												Hold 1
SB181-1			1012	G X	1												Hold 1
SB74-2			1306	G X	1												Hold 1
SB94-2			1523	G X	1												Hold 1
SB96-2			1548	G X	1												Hold 1
SB86-2			1448	G X	1												Hold 1
SB88-2			1510	G X	1												Hold 1

QSM 5.3 Table B15

Turn Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify)

Sample Disposal: Return to Client Disposal by Lab
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): **Level II**

1. Relinquished by: <i>[Signature]</i>	Date: 5/27/22	Time: 0830	1. Received by:	Date:	Time:
2. Relinquished by:	Date:	Time:	2. Received by:	Date:	Time:
3. Relinquished by:	Date:	Time:	3. Received by:	Date:	Time:
4. Relinquished by:	Date:	Time:	4. Laboratory received by:	Date:	Time:

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
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DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy

Document Number: ME003N2-01

Monday - Thursday**
NATIONAL Next Day A.M.
Sensitive Shipment
Business Day

SHIP DATE: 03MAY22
ACT WT: 10.00 LB MAX
CAD: 0361800/CAFE3512



TURN MON-FRI
PRIORITY OVERNIGHT

37122

TN-US





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 www.pacelabs.com

L1496985

Number 134026

Client: **BGES, Inc.** Report to Contact: **Jayne Martin** Telephone No. / E-mail: **907-644-2980** Quote No.: **00107256**
 Address: **1042 K 6th Ave** Sample's Signature: *[Signature]* Analysis (Attach list if more space is needed): **Jayne@BGES Inc.COM** Page: **6** of **18**
 City: **Anchorage** State: **AK** Zip Code: **99501** Printed Name: **Sam Bundy** Lot # Bar Code (lab use only):
 Project Name: **Homer Airport**

Project No.	P.O. No.	Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No of Containers by Preservative Type											Remarks / Cooler I.D.	
						Organic C-Composite	Aqueous	Soil	Non-aqueous	Urynes	H2SO4	HNO3	HCl	NaOH	50% KCl	Field Filtered		
		SB40-2	5-20-22	1156	G	X	1										Hold	1
		SB95-2	}	1535	G	X	1										Hold	1
		SB85-2		1434	G	X	1										Hold	1
		SB78-4		1412	G	X	1										Hold	1
		SB41-2		1211	G	X	1										Hold	1
		SB84-2		1423	G	X	1										Hold	1
		SB80-3	5-21-22	1653	G	X	1							X				2
		SB116-1		1117	G	X	1							X				2
		SB93-1		1510	G	X	1							X				2
		SB90-1		1525	G	X	1							X				2

Turn Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify) Sample Disposal: Return to Client Disposal by Lab
 Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown
 QC Requirements (Specify): **Level II**

1. Relinquished by: <i>[Signature]</i>	Date: 5/23/22	Time: 0830	1. Received by:	Date:	Time:
2. Relinquished by:	Date:	Time:	2. Received by:	Date:	Time:
3. Relinquished by:	Date:	Time:	3. Received by:	Date:	Time:
4. Relinquished by:	Date:	Time:	4. Laboratory received by:	Date:	Time:

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. °C Temp Blank Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy

Document Number: ME003N2-01

L1496985



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 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134032

Client: **BGES Inc**
 Address: **1042 E 6th Ave**
 City: **Anchorage** State: **AK** Zip Code: **99501**
 Project Name: **Homer Airport**

Report to Contact: **Jayne Martin**
 Sampler's Signature: *[Signature]*
 Printed Name: **Sam Bundy**

Telephone No. / E-mail: **907-644-2000**
Jayne@BGESInc.com
 Analysis (Attach list if more space is needed)

Quote No.: **00107286**
 Page: **7** of **18**
 Lot # Bar Code (lab use only)

Project No.	P.O. No.	Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No of Containers by Preservative Type											Remarks / Cooler I.D.	
						Unpres.	HClSO4	HNO3	HCl	NaOH	SO3S K2	Field Blank	Other	Other	Other	Other		
		SB83-1	5-21-22	1714	G	X	1											2
		SB92-1	↓	1602	G	X	1											2
		SB113-1		1401	G	X	1											2
		SB89-1		1548	G	X	1											2
		SB91-1		1530	G	X	1											2
		SB114-3		1140	G	X	1											2
		SB117-1		1246	G	X	1											2
		SB115-1		1228	G	X	1											2
		SB107-1		1006	G	X	1											2
		SB114-1		1131	G	X	1											2

Turn Around Time Required (Prior lab approval required for expedited TAT.)
 Standard Rush (Specify)

Sample Disposal: Return to Client Disposal by Lab

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): **Level II**

1. Relinquished by	Date	Time	1. Received by	Date	Time
<i>[Signature]</i>	5/23/22	0830			
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by	Date	Time

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. °C
 Temp Blank Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Shipping 1
Special 1
Handling 1
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Number 134033

Monday - Thursday**
Shipped to PACE NATIONAL Next Day A.M.
More Sensitive Shipment
Next Business Day

SHIP DATE: 03P4Y22
ACT-LOT: 10 00 LB PAN
CAG: C961800/CAFE9512

37122
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RETURNS MON-FRI
PRIORITY OVERNIGHT

37122

TN-US



Client: **BGES, Inc** Report to Contact: **Jayne Martin** Telephone No. / E-mail: **803-644-2400** Quote No: **00109296**

Address: **1042 E 6th Ave** Sampler's Signature: *[Signature]* Analysis (Attach list if more space is needed)

City: **Anchorage** State: **AK** Zip Code: **99501** Printed Name: **Sam Bundy** Lot # Bar Code (lab use only): **Page 8 of 18**

Project Name: **Home Airport** Project No. P.O. No. Matrix No. of Containers by Preservative Type

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No. of Containers by Preservative Type											Remarks / Cooler I.D.			
				Aluminum	Stainless	Other	Urethane	ASBUN	PHCET	HD	MOH	SUREX	Other	Other				
SB118-1	5-21-22	1148	G	X	1												X	2
SB105-1		1038	G	X	1												X	2
SB104-1		1021	G	X	1												X	2
SB99-1		1434	G	X	1												X	2
SB102-1		1416	G	X	1												X	2
SB79-1		1635	G	X	1												X	2
SB100-1		1448	G	X	1												X	2
SB111-1		1301	G	X	1												X	2
SB101-1		1505	G	X	1												X	2
SB106-1		1050	G	X	1												X	2

Turn Around Time Required (Prior lab approval required for expedited TAT):
 Standard Rush (Specify)

Sample Disposal:
 Return to Client Disposal by Lab

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison Unknown

OC Requirements (Specify): **Level II**

1. Relinquished by	Date	Time	1. Received by	Date	Time
<i>[Signature]</i>	5/23/22	0830			
2. Relinquished by	Date	Time	2. Received by	Date	Time
3. Relinquished by	Date	Time	3. Received by	Date	Time
4. Relinquished by	Date	Time	4. Laboratory received by	Date	Time

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. °C Temp Blank Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Number 134038

Client BGES, Inc.		Report to Contact Jayne Martin		Telephone No. / E-mail 907-644-2900 Jayne@BGESIN.com	Quote No. 00107286
Address 1042 E 6th Ave		Sampler's Signature 		Analysis (Attach list if more space is needed)	
City Anchorage	State AK	Zip Code 99501	X Printed Name Sam Bundy	Page 9 of 18	
Project Name Homer Airport		Lot # Bar Code (lab use only)			

Sample ID / Description (Containers for each sample may be combined on one line.)	P.O. No.	Collection Date(s)	Collection Time (Military)	Containers Composite	Matrix			No. of Containers by Preservative Type							Remarks / Cooler I.D.	
					Unam.	HB04	HM03	HC	NO2H	SO3S 80	Filter	Filter				
SB108-1	5-21-22	0955	G	X			1								X	2
SB99-3		1442	G	X			1								X	2
SB81-1		1654	G	X			1								X	2
SB103-1		1616	G	X			1								X	2
SB110-1		1316	G	X			1								X	2
SB109-1		1336	G	X			1								X	2
SB82-1		1706	G	X			1								X	2
SB80-1		1645	G	X			1								X	2
SB112-1		1304	G	X			1								X	2
SB109-2	↓	1341	G	X			1								X	Hold 2

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown				QC Requirements (Specify) Level II	
1. Relinquished by 	Date 5/23/22	Time 0830	1. Received by		Date	Time			
2. Relinquished by	Date	Time	2. Received by		Date	Time			
3. Relinquished by	Date	Time	3. Received by		Date	Time			
4. Relinquished by	Date	Time	4. Laboratory received by		Date	Time			

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. °C Temp Blank Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s). PINK-Field/Client Copy

Document Number: ME003N2-01

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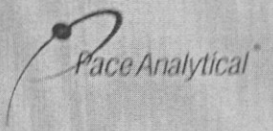
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Number 134036

Client: BGES, Inc
 Address: 1042 E 6th Ave
 City: Anderson State: AK Zip Code: 99501
 Project Name: Lower Airport

Report to Contact: Jayne Martin
 Sample's Signature: _____
 Printed Name: Sam Budy

Telephone No. / E-mail: 907-644-2000
Jayne@BGES Inc.com
 Analysis (Attach list if more space is needed)

Quote No.: 00107286
 Page 10 of 18
 Lot # Bar Code (lab use only)

Sample ID / Description (Directions for each sample may be contained on one line)	Collection Date(s)	Collection Time (AST/AST)	Matrix	No. of Containers by Preservative Type												Remarks / Cooler I.D.		
				UNCONSERVED	CONSERVED	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER	OTHER			
SB822-2	5-21-22	1744	G X															Hold 2
SB80-2		1650	G X															Hold 2
SB93-2		1015	G X															Hold 2
SB104-2		1026	G X															Hold 2
SB116-2		1122	G X															Hold 2
SB91-4		1545	G X															Hold 2
SB115-2		1238	G X															Hold 2
SB119-2		1439	G X															Hold 2
SB110-4		1328	G X															Hold 2
SB103-2		1521	G X															Hold 2

Turn Around Time Required (Prior lab approval required for expedited TAT): Standard Expedited

QC Requirements (Specify): Level II

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

Sample Disposal: Return to Client Disposal by Lab

1. Requested by	Date	Time	1. Received by	Date	Time
<u>[Signature]</u>	5/23/22	0830			
2. Requested by	Date	Time	2. Received by	Date	Time
3. Requested by	Date	Time	3. Received by	Date	Time
4. Requested by	Date	Time	4. Laboratory received by	Date	Time

Temp Blank Y N

LAB USE ONLY: Received on Ice (Circle) Yes No Ice Pack Receipt Temp. °C

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Sample(s); PINK Return to Client Copy

Document Number: ME003N2-01

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SATURDAY
PRIORITY C

BILL THIRD PARTY

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Number 134035

Client BOES, Inc.		Report to Contact Jayne Martin		Telephone No. / E-mail 907-644-2406 Jayne@BOES Inc.com		Quote No. 00107286		
Address 1042 E 6th Ave		Sampler's Signature X		Analysis (Attach list if more space is needed)		Page 11 of 18		
City Anchorage	State AK	Zip Code 99501	Printed Name Sam		Lot # Bar Code (lab use only) Remarks / Cooler I.D.			
Project Name Homer Airport		Project No.						
Sample ID / Description (Containers for each sample may be combined on one line.)		Collection Date(s)	Collection Time (Military)	Matrix	No of Containers by Preservative Type			QSM5 Stable Bis Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2
SB10-2		5-21-22	1530	G X	1			
SB113-2			1406	G X	1			
SB107-2			1011	G X	1			
SB101-2			1510	G X	1			
SB110-2			1324	G X	1			
SB114-2			1137	G X	1			
SB111-2			1356	G X	1			
SB117-2			1255	G X	1			
SB83-2			1719	G X	1			
SB72-2			1607	G X	1			
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown			QC Requirements (Specify) Level II	
1. Relinquished by AS		Date	Time	1. Received by			Date	Time
2. Relinquished by		Date	Time	2. Received by			Date	Time
3. Relinquished by		Date	Time	3. Received by			Date	Time
4. Relinquished by		Date	Time	4. Laboratory received by			Date	Time
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY Received on ice (Circle) Yes No Ice Pack			Receipt Temp. _____ °C Temp Blank <input type="checkbox"/> Y <input type="checkbox"/> N	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Number 134037

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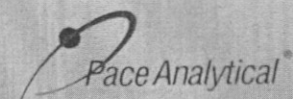
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Client BGES, Inc.		Report to Contact Jayne Martin		Telephone No. / E-mail 907-644-2464 Jayne@BGESInc.com		Quote No. 00107286										
Address 1042 E 6th Ave		Sampler's Signature 		Analysis (Attach list if more space is needed)		Page 13 of 18										
City Anchorage	State AK	Zip Code 99501	Printed Name Sam Budy		Lot # Bar Code (lab use only)		Remarks / Cooler I.D.									
Project Name Home Airport																
Project No.	P.O. No.	Matrix		No of Containers by Preservative Type												
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Gr/Grab Co-Composite	Agitation	Stabil	Acid	Unarm	H2SO4	HNO3	HCl	H2O2	SO3-KF	Field Preserv	OSMS-3 Tube B15	Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2 Hold 2	
SB105-2	5-21-22	1043	G	X			1									
SB102-2		1422	G	X			1									
SB100-2		1453	G	X			1									
SB89-2		1554	G	X			1									
SB108-2		1000	G	X			1									
SB118-2		1153	G	X			1									
SB106-2		1055	G	X			1									
SB81-2		1659	G	X			1									
SB91-2		1541	G	X			1									
SB79-2		1640	G	X			1									
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown				QC Requirements (Specify) Level II								
1. Relinquished by 		Date 5/23/22	Time 0830	1. Received by				Date	Time							
2. Relinquished by		Date	Time	2. Received by				Date	Time							
3. Relinquished by		Date	Time	3. Received by				Date	Time							
4. Relinquished by		Date	Time	4. Laboratory received by				Date	Time							
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY Received on ice (Circle) Yes No Ice Pack				Receipt Temp _____ °C								
								Temp Blank <input type="checkbox"/> Y <input type="checkbox"/> N								

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Number 134039

Client BGES, Inc.			Report to Contact Jayne Martin			Telephone No. / E-mail 907-644-2900 Jayne@BGESInc.com			Quote No. Colo7286		
Address 1042 E 6th Ave			Sampler's Signature 			Analysis (Attach list if more space is needed)			Page 13 of 18		
City Anchorage		State AK	Zip Code 99501		X Printed Name Sam Bundy			Lot # Bar Code (lab use only)			Remarks / Cooler I.D.
Project Name Homer Airport			Project No.			P.O. No.					

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No of Containers by Preservative Type										Field Filtered	Remarks / Cooler I.D.
				Agar	Solid	Non-Solid	Ureum	H2SO4	HNO3	HCl	NaOH	S03S KR	Field Filtered		
SB172-2	5-22-22	1654	G	X				1							Hold 3
SB71-4	↓	1040	G	X				1							Hold 3
SB184-2		1431	G	X				1							Hold 3
SB69-2		1049	G	X				1							Hold 3
SB72-2		1120	G	X				1							Hold 3
SB175-2		1600	G	X				1							Hold 3
SB37-2		1142	G	X				1							Hold 3
SB185-2		1404	G	X				1							Hold 3
SB70-2		1106	G	X				1							Hold 3
				G											2

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown				QC Requirements (Specify) Level II	
1. Relinquished by 		Date 5/23/22	Time 0830	1. Received by		Date	Time		
2. Relinquished by		Date	Time	2. Received by		Date	Time		
3. Relinquished by		Date	Time	3. Received by		Date	Time		
4. Relinquished by		Date	Time	4. Laboratory received by		Date	Time		
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY Received on ice (Circle) Yes No Ice Pack			Receipt Temp. °C		Temp Blank <input type="checkbox"/> Y <input type="checkbox"/> N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Number 134043

Client: **BGES, Inc** Report to Contact: **Jayne Martin** Telephone No. / E-mail: **907-644-1200** Quote No.: **00107286**
 Address: **1042 E 6th Ave** Sampler's Signature: *[Signature]* Analysis (Attach list if more space is needed): **Jayne@BGESInc.com**
 City: **Anchorage** State: **AK** Zip Code: **99501** Printed Name: **Sam Burdy** Page: **14** of **18**
 Project Name: **Homer Airport**

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	G-Comp G-Composite	Matrix							No of Containers by Preservative Type	Remarks / Cooler I.D.	
				Aqueous	Solid	Res.	Acid	Unpres.	H2SO4	HNO3			HCl
SB72-1	5-22-22	1114	G									X	3
SB175-1		1555	G									X	3
SB177-1		1608	G									X	3
SB176-1		1541	G									X	3
SB34-1		1219	G									X	3
SB37-3		1144	G									X	3
SB73-1		1123	G									X	3
SB35-1		1151	G									X	3
SB38-1		1230	G									X	3
SB36-1		1204	G									X	3

Turn Around Time Required (Prior lab approval required for expedited TAT): Standard Rush (Specify)

Sample Disposal: Return to Client Disposal by Lab

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): **Level II**

1. Relinquished by: <i>[Signature]</i>	Date: 5/23/22	Time: 0830	1. Received by:	Date:	Time:
2. Relinquished by:	Date:	Time:	2. Received by:	Date:	Time:
3. Relinquished by:	Date:	Time:	3. Received by:	Date:	Time:
4. Relinquished by:	Date:	Time:	4. Laboratory received by:	Date:	Time:

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. _____ °C
 Temp Blank Y N

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Number 134042

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Client BOES Inc.			Report to Contact Jayne Martin			Telephone No. / E-mail 907-644-2900 Jayne@BOESInc.com			Quote No. 00107286						
Address 1042 E 6th Ave			Sampler's Signature 			Analysis (Attach list if more space is needed)			Page 15 of 18						
City Anchorage	State AK	Zip Code 99501	Printed Name Sam Bundy			No of Containers by Preservative Type QSN15, 3 Table D15			Lot # Bar Code (lab use only)						
Project Name Home Airport															
Project No.	P.O. No.		Matrix	No of Containers by Preservative Type											
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Composite	Agitation	Solid	Non-agitation	Ultrasonic	MSCM	HMCD	HCI	NOH	BOOS KE	Field Filtered	Remarks / Cooler I.D.	
SB172-1	5-22-22	1651	G	X			1						X	3	
SB170-1		1636	G	X			1						X	3	
SB69-1		1044	G	X			1						X	3	
SB183-1		1442	G	X			1						X	3	
SB182-1		1452	G	X			1						X	3	
SB70-1		1100	G	X			1						X	3	
SB171-2		1509	G	X			1						X	3	
SB179-4		1514	G	X			1						X	3	
SB178-1		1617	G	X			1						X	3	
SB71-1		1032	G	X			1						X	3	
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)			Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab			Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown						QC Requirements (Specify) Level II			
1. Relinquished by			Date	Time	1. Received by						Date	Time			
2. Relinquished by			Date	Time	2. Received by						Date	Time			
3. Relinquished by			Date	Time	3. Received by						Date	Time			
4. Relinquished by			Date	Time	4. Laboratory received by						Date	Time			
Note: All samples are retained for four weeks from receipt unless other arrangements are made.						LAB USE ONLY Received on ice (Circle) Yes No Ice Pack						Receipt Temp. °C		Temp Blank <input type="checkbox"/> Y <input type="checkbox"/> N	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME003N2-01

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Number 134040

Client: **BGES** Report to Contact: **Jayne Martin** Telephone No. / E-mail: **907-644-2900 / Service@BGES.lac.com** Quote No.: **00107286**

Address: **1642 E 6th Ave** City: **Anchorage AK** State: **AK** Zip Code: **99501** Project Name: **Home Airport** Project No.: **San Bundy** Analysis (Attach list if more space is needed): **OSMF-3 Table Bif** Page **16** of **18** Lot # Bar Code (lab use only):

Matrix: **OSMF-3 Table Bif** No. of Containers by Preservative Type: **OSMF-3 Table Bif**

Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (Military)	Quantity Collected	Matrix											Remarks / Cooler I.D.		
				AMNH	SM	WV	AN	UP	MSOM	HNCS	AC	NOH	SSS KF	Field Filter			
SB182-2	5-22-22	1457	6	X													Hold 3
SB38-2		1235	6	X													Hold 3
SB35-2		1156	6	X													Hold 3
SB176-2		1546	6	X													Hold 3
SB34-2		1225	6	X													Hold 3
SB179-1		1904	6	X													Hold 3
SB183-2		1447	6	X													Hold 3
SB177-2		1613	6	X													Hold 3
SB171-2		1628	6	X													Hold 3
SB171-4		1634	6	X													Hold 3

Turn Around Time Required (Prior lab approval required for expedited TAT.) Standard Rush (Specify) Sample Disposal: Return to Client Disposal by Lab Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown QC Requirements (Specify): **Level II**

Relinquished by	Date	Time	Received by	Date	Time
[Signature]	5/23/22	0830			

Temp Blank Y N
LAB USE ONLY
Received on ice (Circle) Yes No Ice Pack Receipt Temp. _____ °C
Note: All samples are retained for four weeks from receipt unless other arrangements are made.

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy



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Number 134041

Client: **BGES**
 Address: **1042 E 6th Ave**
 City: **Anchorage AK** State: **AK** Zip Code: **99501**
 Project Name: **Home Airport**
 Project No.: _____ P.O. No.: _____

Report to Contact: **Sage Martin**
 Sample's Signature: *[Signature]*
 Printed Name: **San Brudy**

Telephone No. / E-mail: **907-644-2800 / sage@bgis.com**
 Analysis (Attach list if more space is needed):
 Quote No.: **00107286**
 Page: **17** of **18**
 Lot # Bar Code (lab use only): _____
 Remarks / Cooler I.D.: _____

Sample ID / Description <small>(Containers for each sample may be combined on one line.)</small>	Collection Date(s)	Collection Time (Military)	GeoGrab C-Composite	Matrix							No. of Containers by Preservative Type	Remarks / Cooler I.D.	
				Aqueous	Solid	Non-Aqueous	Ureanes	H2SO4	HNO3	HCl			NiOH
SB171-1	5-22-22	1624	G	X			1					X	3
SB169-1		1644	G	X			1					X	3
SB173-2		1659	G	X			1						Hold 3
SB71-2		1037	G	X			1						Hold 3
SB178-2		1622	G	X			1						Hold 3
SB170-2		1641	G	X			1						Hold 3
SB73-2		1128	G	X			1						Hold 3
SB169-2		1649	G	X			1						Hold 3
SB174-2		1526	G	X			1						Hold 3
SB336-2		1209	G	X			1						Hold 3

Turn Around Time Required (Prior lab approval required for expedited TAT):
 Standard Rush (Specify) _____

Sample Disposal: Return to Client Disposal by Lab

Possible Hazard Identification:
 Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): **Level II**

Relinquished by	Date	Time	Received by	Date	Time
<i>[Signature]</i>	5/23/22	0930			

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. _____ °C
 Temp Blank Y N

L1496985



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive · West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134034

Client BGES	Report to Contact Jayne Martin	Telephone No. / E-mail 907-644-2900 / Jayne@bg-sh.com	Quote No. 00107286
Address 1642 E 6th Ave	Sampler's Signature <i>[Signature]</i>	Analysis (Attach list if more space needed)	Page 18 of 18
City Anchorage State AK Zip Code 99501	X Printed Name Sam Bundy	QSM 5.3 Table B15	Lot # Bar Code (lab use only)
Project Name Homer Airport	No of Containers by Preservative Type		Remarks / Cooler I.D.

Project No.	P.O. No.	Collection Date(s)	Collection Time (Military)	Growth C-Composite	Matrix										No of Containers by Preservative Type	Remarks / Cooler I.D.		
					Aqueous	Solid	Trace	Adsorb	Urease	H2SO4	HNO3	HCl	NaOH	6035 / 6			Field Filtered	
SB107-4		5-21-22	1013	G	X												Hold 2	
SB112-2		5-21-22	1640	G	X												Hold 2	
EB-521		5-21-22	1735	G	X											X	2	
EB-522		5-22-22	1725	G	X											X	3	
SB184-1		↓	1426	G	X											X	3	
SB185-1			1359	G	X												X	3
SB173-1			1656	G	X												X	3
SB176-3			1550	G	X												X	3
SB37-1			1137	G	X												X	3
SB174-1			1521	G	X												X	3

Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown	QC Requirements (Specify) Level II
1. Relinquished by <i>[Signature]</i>	Date 5/23/22 Time 0830	1. Received by	Date Time
2. Relinquished by	Date Time	2. Received by	Date Time
3. Relinquished by	Date Time	3. Received by	Date Time
4. Relinquished by	Date Time	4. Laboratory received by	Date Time

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Circle) Yes No Ice Pack Receipt Temp. _____ °C
 Temp Blank Y N



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1868854
Lot Number: **XE24090**
Date Completed: 06/20/2022

07/05/2022 12:45 PM
Approved and released by:
Project Manager II: **Edward Barnett**



The electronic signature above is the equivalent of a handwritten signature.
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE24090

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE24090-001, XE24090-002, XE24090-012, XE24090-015, XE24090-016, XE24090-017, XE24090-018, XE24090-019 and XE24090-020. The samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE24090
Project Name: Homer Airport
Project Number: WG1868854

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB171-1	Solid	05/22/2022 1624	05/24/2022
002	SB169-1	Solid	05/22/2022 1644	05/24/2022
003	SB173-2	Solid	05/22/2022 1659	05/24/2022
004	SB71-2	Solid	05/22/2022 1037	05/24/2022
005	SB178-2	Solid	05/22/2022 1622	05/24/2022
006	SB170-2	Solid	05/22/2022 1641	05/24/2022
007	SB73-2	Solid	05/22/2022 1128	05/24/2022
008	SB169-2	Solid	05/22/2022 1649	05/24/2022
009	SB174-2	Solid	05/22/2022 1526	05/24/2022
010	SB36-2	Solid	05/22/2022 1209	05/24/2022
011	SB107-4	Solid	05/21/2022 1013	05/24/2022
012	SB112-2	Solid	05/21/2022 1640	05/24/2022
013	EB-521	Aqueous	05/21/2022 1735	05/24/2022
014	EB-522	Aqueous	05/22/2022 1725	05/24/2022
015	SB184-1	Solid	05/22/2022 1426	05/24/2022
016	SB185-1	Solid	05/22/2022 1359	05/24/2022
017	SB173-1	Solid	05/22/2022 1656	05/24/2022
018	SB176-3	Solid	05/22/2022 1550	05/24/2022
019	SB37-1	Solid	05/22/2022 1137	05/24/2022
020	SB174-1	Solid	05/22/2022 1521	05/24/2022

(20 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
 Pace Analytical LLC
 Lot Number: XE24090
 Project Name: Homer Airport
 Project Number: WG1868854

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB171-1	Solid	PFHxS	PFAS by ID	0.47	J	ug/kg	6
001	SB171-1	Solid	PFOS	PFAS by ID	4.9		ug/kg	6
002	SB169-1	Solid	PFHxS	PFAS by ID	1.0	J	ug/kg	8
002	SB169-1	Solid	PFDA	PFAS by ID	0.39	J	ug/kg	8
002	SB169-1	Solid	PFNA	PFAS by ID	0.60	J	ug/kg	8
002	SB169-1	Solid	PFUdA	PFAS by ID	0.30	J	ug/kg	8
002	SB169-1	Solid	PFOS	PFAS by ID	12		ug/kg	8
015	SB184-1	Solid	PFBS	PFAS by ID	0.32	J	ug/kg	16
015	SB184-1	Solid	PFHpS	PFAS by ID	0.47	J	ug/kg	16
015	SB184-1	Solid	PFPeS	PFAS by ID	0.56	J	ug/kg	16
015	SB184-1	Solid	PFHxS	PFAS by ID	7.6		ug/kg	16
015	SB184-1	Solid	PFHpA	PFAS by ID	0.42	J	ug/kg	16
015	SB184-1	Solid	PFHxA	PFAS by ID	0.60	J	ug/kg	16
015	SB184-1	Solid	PFNA	PFAS by ID	0.39	J	ug/kg	16
015	SB184-1	Solid	PFOA	PFAS by ID	1.1	J	ug/kg	16
015	SB184-1	Solid	PFPeA	PFAS by ID	0.42	J	ug/kg	16
015	SB184-1	Solid	PFOS	PFAS by ID	26		ug/kg	16
016	SB185-1	Solid	6:2 FTS	PFAS by ID	7.0		ug/kg	18
016	SB185-1	Solid	PFHxS	PFAS by ID	3.3		ug/kg	18
016	SB185-1	Solid	PFOA	PFAS by ID	0.65	J	ug/kg	18
016	SB185-1	Solid	PFOS	PFAS by ID	1.1	J	ug/kg	18
017	SB173-1	Solid	PFHxS	PFAS by ID	0.32	J	ug/kg	20
017	SB173-1	Solid	PFOS	PFAS by ID	3.2		ug/kg	20
018	SB176-3	Solid	PFHxS	PFAS by ID	1.9		ug/kg	22
018	SB176-3	Solid	PFHxA	PFAS by ID	0.35	J	ug/kg	22
018	SB176-3	Solid	PFPeA	PFAS by ID	0.38	J	ug/kg	22
018	SB176-3	Solid	PFOS	PFAS by ID	1.7	J	ug/kg	22
019	SB37-1	Solid	PFHxS	PFAS by ID	1.2	J	ug/kg	24
019	SB37-1	Solid	PFHpA	PFAS by ID	0.42	J	ug/kg	24
019	SB37-1	Solid	PFHxA	PFAS by ID	0.58	J	ug/kg	24
019	SB37-1	Solid	PFOS	PFAS by ID	2.6		ug/kg	24
020	SB174-1	Solid	PFHxS	PFAS by ID	1.8		ug/kg	26
020	SB174-1	Solid	PFDA	PFAS by ID	0.31	J	ug/kg	26
020	SB174-1	Solid	PFHpA	PFAS by ID	0.33	J	ug/kg	26
020	SB174-1	Solid	PFHxA	PFAS by ID	0.29	J	ug/kg	26
020	SB174-1	Solid	PFNA	PFAS by ID	0.42	J	ug/kg	26
020	SB174-1	Solid	PFOA	PFAS by ID	0.44	J	ug/kg	26
020	SB174-1	Solid	PFPeA	PFAS by ID	0.31	J	ug/kg	26
020	SB174-1	Solid	PFUdA	PFAS by ID	0.30	J	ug/kg	26
020	SB174-1	Solid	PFOS	PFAS by ID	12		ug/kg	26

(40 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-001
Description: SB171-1	Matrix: Solid
Date Sampled: 05/22/2022 1624	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 69.3 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 2001	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.4	0.34	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.4	0.37	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.4	0.27	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.4	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.4	0.48	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.47	J	1.2	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.51	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.9		1.2	0.44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	155	25-150
13C2_6:2FTS		144	25-150
13C2_8:2FTS	N	184	25-150
13C2_PFDaA		130	25-150
13C2_PFTeDA		108	25-150
13C3_PFBs		104	25-150
13C3_PFHxS		111	25-150
13C4_PFBa		106	25-150
13C4_PFHpA		107	25-150
13C5_PFHxA		109	25-150
13C5_PFPeA		108	25-150
13C6_PFDa		114	25-150
13C7_PFUdA		124	25-150
13C8_PFOA		109	25-150
13C8_PFOs		112	25-150
13C8_PFOsA		90	10-150
13C9_PFNa		113	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-001
Description: SB171-1	Matrix: Solid
Date Sampled: 05/22/2022 1624	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 69.3 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	153	25-150
d-MeFOSA		76	10-150
d3-MeFOSAA		143	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-002
Description: SB169-1	Matrix: Solid
Date Sampled: 05/22/2022 1644	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 82.7 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 2012	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.2	0.31	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.2	0.34	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.44	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.0	J	1.1	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.47	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.39	J	1.1	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDaA)	307-55-1	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.60	J	1.1	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	0.30	J	1.1	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	12		1.1	0.40	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		127	25-150
13C2_6:2FTS		127	25-150
13C2_8:2FTS	N	153	25-150
13C2_PFDaA		114	25-150
13C2_PFTeDA		96	25-150
13C3_PFBS		96	25-150
13C3_PFHxS		97	25-150
13C4_PFBA		97	25-150
13C4_PFHpA		96	25-150
13C5_PFHxA		102	25-150
13C5_PFPeA		96	25-150
13C6_PFDA		104	25-150
13C7_PFUdA		112	25-150
13C8_PFOA		98	25-150
13C8_PFOS		100	25-150
13C8_PFOSA		99	10-150
13C9_PFNA		100	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-002
Description: SB169-1	Matrix: Solid
Date Sampled: 05/22/2022 1644	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 82.7 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		135	25-150
d-MeFOSA		80	10-150
d3-MeFOSAA		119	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-012
Description: SB112-2	Matrix: Solid
Date Sampled: 05/21/2022 1640	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 85.7 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/16/2022 0120	MMM	06/13/2022 1754	44737

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.3	0.32	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.3	0.35	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.3	0.25	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.3	0.33	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.40	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.46	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.25	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.48	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.25	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.2	0.41	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	267	25-150
13C2_6:2FTS	N	280	25-150
13C2_8:2FTS	N	400	25-150
13C2_PFDaA		103	25-150
13C2_PFTeDA		71	25-150
13C3_PFBs		81	25-150
13C3_PFHxS		107	25-150
13C4_PFBa		61	25-150
13C4_PFHpA		88	25-150
13C5_PFHxA		86	25-150
13C5_PFPeA		74	25-150
13C6_PFDa		99	25-150
13C7_PFUdA		97	25-150
13C8_PFOA		83	25-150
13C8_PFOs		87	25-150
13C8_PFOsA		83	10-150
13C9_PFNa		95	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-012
Description: SB112-2	Matrix: Solid
Date Sampled: 05/21/2022 1640	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 85.7 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		123	25-150
d-MeFOSA		68	10-150
d3-MeFOSAA		125	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-013
Description: EB-521	Matrix: Aqueous
Date Sampled: 05/21/2022 1735	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/11/2022 0448	ASD	06/07/2022 1430	44068

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		7.0	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		7.0	1.7	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		7.0	0.76	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.0	0.66	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.0	0.81	ng/L	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.5	0.36	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.5	0.68	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.5	0.44	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.5	0.62	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.5	0.54	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.5	0.52	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.5	0.48	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.5	0.52	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.5	0.46	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.5	0.41	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.5	0.39	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.5	0.60	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.5	0.40	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.5	0.72	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.5	0.48	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.5	0.52	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.5	0.46	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.5	0.55	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.5	1.7	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		108	25-150
13C2_6:2FTS		117	25-150
13C2_8:2FTS		107	25-150
13C2_PFDaA		106	25-150
13C2_PFTeDA		101	25-150
13C3_PFBS		107	25-150
13C3_PFHxS		106	25-150
13C4_PFBA		105	25-150
13C4_PFHpA		116	25-150
13C5_PFHxA		109	25-150
13C5_PFPeA		109	25-150
13C6_PFDA		109	25-150
13C7_PFUdA		109	25-150
13C8_PFOA		110	25-150
13C8_PFOS		110	25-150
13C8_PFOSA		94	10-150
13C9_PFNA		109	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-013
Description: EB-521	Matrix: Aqueous
Date Sampled: 05/21/2022 1735	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		109	25-150
d-MeFOSA		56	10-150
d3-MeFOSAA		111	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-014
Description: EB-522	Matrix: Aqueous
Date Sampled: 05/22/2022 1725	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/11/2022 0459	ASD	06/07/2022 1430	44068

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		6.9	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		6.9	1.7	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		6.9	0.75	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		6.9	0.64	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		6.9	0.80	ng/L	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.4	0.36	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.4	0.67	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.4	0.43	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.4	0.61	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.4	0.53	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.4	0.51	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.4	0.47	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.4	0.52	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.4	0.45	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.4	0.41	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.4	0.38	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.4	0.59	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.4	0.40	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.4	0.71	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.4	0.47	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.4	0.52	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.4	0.45	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.4	0.54	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.4	1.7	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		108	25-150
13C2_6:2FTS		102	25-150
13C2_8:2FTS		96	25-150
13C2_PFDaA		94	25-150
13C2_PFTeDA		91	25-150
13C3_PFBs		97	25-150
13C3_PFHxS		100	25-150
13C4_PFBa		98	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		101	25-150
13C5_PFPeA		100	25-150
13C6_PFDa		99	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		104	25-150
13C8_PFOs		104	25-150
13C8_PFOsA		88	10-150
13C9_PFNa		99	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-014
Description: EB-522	Matrix: Aqueous
Date Sampled: 05/22/2022 1725	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		94	25-150
d-MeFOSA		63	10-150
d3-MeFOSAA		98	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-015
Description: SB184-1	Matrix: Solid
Date Sampled: 05/22/2022 1426	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 53.5 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1826	MMM	06/14/2022 1512	44855

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.7	0.51	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.7	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.7	0.41	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.7	0.54	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.7	0.65	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.7	0.74	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.32	J	1.9	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.9	0.42	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.47	J	1.9	0.33	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.9	0.41	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.56	J	1.9	0.35	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	7.6		1.9	0.33	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.9	0.78	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.42	J	1.9	0.27	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.60	J	1.9	0.35	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.39	J	1.9	0.28	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	1.1	J	1.9	0.40	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.42	J	1.9	0.30	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	26		1.9	0.67	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	231	25-150
13C2_6:2FTS	N	227	25-150
13C2_8:2FTS	N	295	25-150
13C2_PFDaA		79	25-150
13C2_PFTeDA		52	25-150
13C3_PFBs		77	25-150
13C3_PFHxS		90	25-150
13C4_PFBa		77	25-150
13C4_PFHpA		88	25-150
13C5_PFHxA		87	25-150
13C5_PFPeA		76	25-150
13C6_PFDa		78	25-150
13C7_PFUdA		73	25-150
13C8_PFOA		75	25-150
13C8_PFOs		75	25-150
13C8_PFOsA		69	10-150
13C9_PFNa		82	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-015
Description: SB184-1	Matrix: Solid
Date Sampled: 05/22/2022 1426	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 53.5 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		102	25-150
d-MeFOSA		50	10-150
d3-MeFOSAA		97	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-016
Description: SB185-1	Matrix: Solid
Date Sampled: 05/22/2022 1359	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 46.2 05/30/2022 1822

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 2023	ASD	06/06/2022 1613	43909
2	SOP SPE	PFAS by ID SOP	1	06/15/2022 1836	MMM	06/14/2022 1512	44855

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.2	0.58	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	7.0		4.1	0.62	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.2	0.46	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.2	0.61	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.2	0.74	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.2	0.84	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.1	0.28	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.1	0.47	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.1	0.47	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.1	0.39	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	3.3		2.1	0.37	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.1	0.88	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.1	0.34	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.1	0.30	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.1	0.39	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.1	0.32	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.65	J	2.1	0.45	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.1	0.34	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.1	0.40	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.1	0.36	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.1	0.39	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.1	J	2.1	0.76	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	257	25-150		147	25-150
13C2_6:2FTS	N	289	25-150		148	25-150
13C2_8:2FTS	N	370	25-150	N	234	25-150
13C2_PFDaA		118	25-150		81	25-150
13C2_PFTeDA		85	25-150		58	25-150
13C3_PFBs		102	25-150		54	25-150
13C3_PFHxS		103	25-150		68	25-150
13C4_PFBa		105	25-150		53	25-150
13C4_PFHpA		104	25-150		61	25-150
13C5_PFHxA		108	25-150		60	25-150
13C5_PFPeA		106	25-150		54	25-150
13C6_PFDa		116	25-150		69	25-150
13C7_PFUdA		118	25-150		67	25-150
13C8_PFOA		113	25-150		56	25-150
13C8_PFOs		104	25-150		60	25-150
13C8_PFOsA		94	10-150		56	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-016
Description: SB185-1	Matrix: Solid
Date Sampled: 05/22/2022 1359	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 46.2 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		112	25-150		64	25-150
d5-EtFOSAA		145	25-150		94	25-150
d-MeFOSA		73	10-150		48	10-150
d3-MeFOSAA		144	25-150		88	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-017
Description: SB173-1	Matrix: Solid
Date Sampled: 05/22/2022 1656	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 89.8 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 2034	ASD	06/06/2022 1613	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	1.9	0.26	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		1.9	0.29	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		1.9	0.21	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		1.9	0.28	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		1.9	0.38	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.95	0.12	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.95	0.21	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.95	0.17	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.95	0.21	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.95	0.17	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.95	0.18	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.32	J	0.95	0.17	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.95	0.40	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.95	0.15	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.95	0.17	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.95	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.95	0.18	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.95	0.14	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.95	0.20	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.95	0.15	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.95	0.18	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.95	0.16	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.95	0.18	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	3.2		0.95	0.34	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		106	25-150
13C2_6:2FTS		112	25-150
13C2_8:2FTS	N	175	25-150
13C2_PFDaA		107	25-150
13C2_PFTeDA		89	25-150
13C3_PFBs		85	25-150
13C3_PFHxS		91	25-150
13C4_PFBa		86	25-150
13C4_PFHpA		86	25-150
13C5_PFHxA		89	25-150
13C5_PFPeA		87	25-150
13C6_PFDa		95	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		87	25-150
13C8_PFOs		93	25-150
13C8_PFOsA		91	10-150
13C9_PFNa		90	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-017
Description: SB173-1	Matrix: Solid
Date Sampled: 05/22/2022 1656	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 89.8 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		131	25-150
d-MeFOSA		64	10-150
d3-MeFOSAA		88	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-018
Description: SB176-3	Matrix: Solid
Date Sampled: 05/22/2022 1550	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 47.2 05/30/2022 1822

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/15/2022 1847	MMM	06/14/2022 1512	44855

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.6	0.49	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.6	0.55	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.6	0.39	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.6	0.52	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.6	0.62	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.6	0.70	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.8	0.23	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.8	0.40	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.8	0.39	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.9		1.8	0.31	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.8	0.74	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.8	0.28	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.8	0.25	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.35	J	1.8	0.33	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.8	0.27	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.8	0.38	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.38	J	1.8	0.28	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.7	J	1.8	0.63	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	195	25-150
13C2_6:2FTS	N	204	25-150
13C2_8:2FTS	N	322	25-150
13C2_PFDaA		101	25-150
13C2_PFTeDA		69	25-150
13C3_PFBs		76	25-150
13C3_PFHxS		94	25-150
13C4_PFBa		79	25-150
13C4_PFHpA		87	25-150
13C5_PFHxA		85	25-150
13C5_PFPeA		76	25-150
13C6_PFDa		94	25-150
13C7_PFUdA		90	25-150
13C8_PFOA		80	25-150
13C8_PFOs		81	25-150
13C8_PFOsA		79	10-150
13C9_PFNa		94	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-018
Description: SB176-3	Matrix: Solid
Date Sampled: 05/22/2022 1550	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 47.2 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		121	25-150
d-MeFOSA		62	10-150
d3-MeFOSAA		117	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-019
Description: SB37-1	Matrix: Solid
Date Sampled: 05/22/2022 1137	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 44.7 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 2045	ASD	06/06/2022 1613	43909
2	SOP SPE	PFAS by ID SOP	1	06/15/2022 1858	MMM	06/14/2022 1512	44855

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.4	0.61	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		3.9	0.60	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.4	0.48	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.4	0.64	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.4	0.77	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.4	0.88	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.2	0.29	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.2	0.49	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.2	0.49	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.2	0.41	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.2	J	2.2	0.39	ug/kg	1
Perfluoro-n-butyric acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.2	0.92	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.2	0.35	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.42	J	2.2	0.32	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.58	J	2.2	0.41	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.2	0.33	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.2	0.47	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.2	0.35	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.2	0.42	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.2	0.41	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.6		2.2	0.79	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	280	25-150		122	25-150
13C2_6:2FTS	N	270	25-150		136	25-150
13C2_8:2FTS	N	359	25-150	N	155	25-150
13C2_PFDa		104	25-150		143	25-150
13C2_PFTeDA		78	25-150		111	25-150
13C3_PFBs		89	25-150		114	25-150
13C3_PFHxS		91	25-150		122	25-150
13C4_PFBa		89	25-150		109	25-150
13C4_PFHpA		93	25-150		110	25-150
13C5_PFHxA		96	25-150		115	25-150
13C5_PFPeA		90	25-150		105	25-150
13C6_PFDa		103	25-150		108	25-150
13C7_PFUdA		108	25-150		103	25-150
13C8_PFOA		102	25-150		110	25-150
13C8_PFOs		91	25-150		106	25-150
13C8_PFOsA		82	10-150		115	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-019
Description: SB37-1	Matrix: Solid
Date Sampled: 05/22/2022 1137	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 44.7 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		96	25-150		108	25-150
d5-EtFOSAA		128	25-150		149	25-150
d-MeFOSA		68	10-150		109	10-150
d3-MeFOSAA		126	25-150		142	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-020
Description: SB174-1	Matrix: Solid
Date Sampled: 05/22/2022 15:21	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 82.3 05/30/2022 18:22
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 20:56	ASD	06/06/2022 16:13	43909

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.2	0.31	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.2	0.34	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.44	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.8		1.1	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.46	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.31	J	1.1	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.33	J	1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.29	J	1.1	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.42	J	1.1	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.44	J	1.1	0.24	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.31	J	1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	0.30	J	1.1	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	12		1.1	0.40	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		134	25-150
13C2_6:2FTS		136	25-150
13C2_8:2FTS	N	185	25-150
13C2_PFDaA		115	25-150
13C2_PFTeDA		90	25-150
13C3_PFBs		87	25-150
13C3_PFHxS		92	25-150
13C4_PFBa		90	25-150
13C4_PFHpA		88	25-150
13C5_PFHxA		89	25-150
13C5_PFPeA		90	25-150
13C6_PFDa		101	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		92	25-150
13C8_PFOs		94	25-150
13C8_PFOsA		70	10-150
13C9_PFNa		94	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24090-020
Description: SB174-1	Matrix: Solid
Date Sampled: 05/22/2022 1521	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 82.3 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		141	25-150
d-MeFOSA		65	10-150
d3-MeFOSAA		134	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ43909-001

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/09/2022 1728
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/09/2022 1728
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/09/2022 1728
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/09/2022 1728
MeFOSA	ND		1	2.0	0.35	ug/kg	06/09/2022 1728
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/09/2022 1728
PFBS	ND		1	1.0	0.13	ug/kg	06/09/2022 1728
PFDS	ND		1	1.0	0.22	ug/kg	06/09/2022 1728
PFHpS	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFNS	ND		1	1.0	0.22	ug/kg	06/09/2022 1728
PFOSA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFPeS	ND		1	1.0	0.19	ug/kg	06/09/2022 1728
PFHxS	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFBA	ND		1	1.0	0.42	ug/kg	06/09/2022 1728
PFDA	ND		1	1.0	0.16	ug/kg	06/09/2022 1728
PFDoA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFHpA	ND		1	1.0	0.14	ug/kg	06/09/2022 1728
PFHxA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFNA	ND		1	1.0	0.15	ug/kg	06/09/2022 1728
PFOA	ND		1	1.0	0.21	ug/kg	06/09/2022 1728
PFPeA	ND		1	1.0	0.16	ug/kg	06/09/2022 1728
PFTeDA	ND		1	1.0	0.19	ug/kg	06/09/2022 1728
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/09/2022 1728
PFUdA	ND		1	1.0	0.18	ug/kg	06/09/2022 1728
PFOS	ND		1	1.0	0.36	ug/kg	06/09/2022 1728

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		102	25-150
13C2_6:2FTS		96	25-150
13C2_8:2FTS		97	25-150
13C2_PFDoA		101	25-150
13C2_PFTeDA		94	25-150
13C3_PFBs		98	25-150
13C3_PFHxS		101	25-150
13C4_PFBA		101	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		106	25-150
13C5_PFPeA		102	25-150
13C6_PFDA		102	25-150
13C7_PFUdA		100	25-150
13C8_PFOA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43909-001

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		99	25-150
13C8_PFOA		96	10-150
13C9_PFOA		103	25-150
d5-EtFOSAA		101	25-150
d-MeFOA		75	10-150
d3-MeFOSAA		101	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43909-002

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.6		1	85	50-150	06/09/2022 1739
6:2 FTS	1.9	1.5		1	79	50-150	06/09/2022 1739
4:2 FTS	1.9	1.6		1	83	50-150	06/09/2022 1739
EtFOSAA	2.0	1.8		1	88	50-150	06/09/2022 1739
MeFOSA	2.0	1.6		1	79	50-150	06/09/2022 1739
MeFOSAA	2.0	1.7		1	86	50-150	06/09/2022 1739
PFBS	1.8	1.6		1	93	50-150	06/09/2022 1739
PFDS	1.9	1.7		1	88	50-150	06/09/2022 1739
PFHpS	1.9	1.8		1	95	50-150	06/09/2022 1739
PFNS	1.9	1.7		1	90	50-150	06/09/2022 1739
PFOSA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFPeS	1.9	1.7		1	88	50-150	06/09/2022 1739
PFHxS	1.8	1.6		1	89	50-150	06/09/2022 1739
PFBA	2.0	1.8		1	89	50-150	06/09/2022 1739
PFDA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFDoA	2.0	1.7		1	84	50-150	06/09/2022 1739
PFHpA	2.0	1.8		1	91	50-150	06/09/2022 1739
PFHxA	2.0	1.7		1	83	50-150	06/09/2022 1739
PFNA	2.0	1.8		1	92	50-150	06/09/2022 1739
PFOA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFPeA	2.0	1.8		1	88	50-150	06/09/2022 1739
PFTeDA	2.0	1.8		1	89	50-150	06/09/2022 1739
PFTTrDA	2.0	1.8		1	89	50-150	06/09/2022 1739
PFUdA	2.0	1.7		1	86	50-150	06/09/2022 1739
PFOS	1.9	1.6		1	86	50-150	06/09/2022 1739

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		120	25-150
13C2_6:2FTS		117	25-150
13C2_8:2FTS		107	25-150
13C2_PFDoA		117	25-150
13C2_PFTeDA		108	25-150
13C3_PFBS		112	25-150
13C3_PFHxS		113	25-150
13C4_PFBA		113	25-150
13C4_PFHpA		112	25-150
13C5_PFHxA		120	25-150
13C5_PFPeA		119	25-150
13C6_PFDA		114	25-150
13C7_PFUdA		118	25-150
13C8_PFOA		119	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43909-002

Matrix: Solid

Batch: 43909

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/06/2022 1613

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		121	25-150
13C8_PFOA		106	10-150
13C9_PFOA		110	25-150
d5-EtFOSAA		118	25-150
d-MeFOA		94	10-150
d3-MeFOSAA		116	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44068-001

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	8.0	1.6	ng/L	06/11/2022 0353
6:2 FTS	ND		1	8.0	2.0	ng/L	06/11/2022 0353
4:2 FTS	ND		1	8.0	0.87	ng/L	06/11/2022 0353
EtFOSAA	ND		1	8.0	0.75	ng/L	06/11/2022 0353
MeFOSA	ND		1	16	1.3	ng/L	06/11/2022 0353
MeFOSAA	ND		1	8.0	0.93	ng/L	06/11/2022 0353
PFBS	ND		1	4.0	0.41	ng/L	06/11/2022 0353
PFDS	ND		1	4.0	0.78	ng/L	06/11/2022 0353
PFHpS	ND		1	4.0	0.50	ng/L	06/11/2022 0353
PFNS	ND		1	4.0	0.71	ng/L	06/11/2022 0353
PFOSA	ND		1	4.0	0.61	ng/L	06/11/2022 0353
PFPeS	ND		1	4.0	0.59	ng/L	06/11/2022 0353
PFHxS	ND		1	4.0	0.55	ng/L	06/11/2022 0353
PFBA	ND		1	4.0	0.60	ng/L	06/11/2022 0353
PFDA	ND		1	4.0	0.52	ng/L	06/11/2022 0353
PFDoA	ND		1	4.0	0.47	ng/L	06/11/2022 0353
PFHpA	ND		1	4.0	0.45	ng/L	06/11/2022 0353
PFHxA	ND		1	4.0	0.69	ng/L	06/11/2022 0353
PFNA	ND		1	4.0	0.46	ng/L	06/11/2022 0353
PFOA	ND		1	4.0	0.83	ng/L	06/11/2022 0353
PFPeA	ND		1	4.0	0.54	ng/L	06/11/2022 0353
PFTeDA	ND		1	4.0	0.60	ng/L	06/11/2022 0353
PFTTrDA	ND		1	4.0	0.53	ng/L	06/11/2022 0353
PFUdA	ND		1	4.0	0.63	ng/L	06/11/2022 0353
PFOS	ND		1	4.0	2.0	ng/L	06/11/2022 0353

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		110	25-150
13C2_6:2FTS		118	25-150
13C2_8:2FTS		100	25-150
13C2_PFDaA		103	25-150
13C2_PFTeDA		102	25-150
13C3_PFBs		107	25-150
13C3_PFHxS		105	25-150
13C4_PFBa		104	25-150
13C4_PFHpA		111	25-150
13C5_PFHxA		108	25-150
13C5_PFPeA		111	25-150
13C6_PFDa		107	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		115	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44068-001

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		114	25-150
13C8_PFOA		101	10-150
13C9_PFOA		109	25-150
d5-EtFOA		103	25-150
d-MeFOA		61	10-150
d3-MeFOA		101	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44068-002

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	15	15		1	98	50-150	06/11/2022 0404
6:2 FTS	15	19		1	122	50-150	06/11/2022 0404
4:2 FTS	15	15		1	101	50-150	06/11/2022 0404
EtFOSAA	16	18		1	110	50-150	06/11/2022 0404
MeFOSA	16	19		1	119	50-150	06/11/2022 0404
MeFOSAA	16	18		1	113	50-150	06/11/2022 0404
PFBS	14	17		1	117	50-150	06/11/2022 0404
PFDS	15	16		1	103	50-150	06/11/2022 0404
PFHpS	15	18		1	119	50-150	06/11/2022 0404
PFNS	15	17		1	112	50-150	06/11/2022 0404
PFOSA	16	18		1	112	50-150	06/11/2022 0404
PFPeS	15	17		1	117	50-150	06/11/2022 0404
PFHxS	15	17		1	114	50-150	06/11/2022 0404
PFBA	16	18		1	114	50-150	06/11/2022 0404
PFDA	16	18		1	114	50-150	06/11/2022 0404
PFDaA	16	17		1	108	50-150	06/11/2022 0404
PFHpA	16	18		1	114	50-150	06/11/2022 0404
PFHxA	16	19		1	116	50-150	06/11/2022 0404
PFNA	16	18		1	110	50-150	06/11/2022 0404
PFOA	16	17		1	108	50-150	06/11/2022 0404
PFPeA	16	18		1	114	50-150	06/11/2022 0404
PFTeDA	16	17		1	109	50-150	06/11/2022 0404
PFTrDA	16	16		1	97	50-150	06/11/2022 0404
PFUdA	16	18		1	112	50-150	06/11/2022 0404
PFOS	15	17		1	116	50-150	06/11/2022 0404

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		108	25-150
13C2_6:2FTS		114	25-150
13C2_8:2FTS		100	25-150
13C2_PFDaA		95	25-150
13C2_PFTeDA		81	25-150
13C3_PFBs		98	25-150
13C3_PFHxS		100	25-150
13C4_PFBa		99	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		102	25-150
13C6_PFDa		100	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		113	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44068-002

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		103	25-150
13C8_PFOA		93	10-150
13C9_PFOA		102	25-150
d5-EtFOSAA		98	25-150
d-MeFOA		56	10-150
d3-MeFOSAA		97	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44737-001

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/15/2022 2251
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/15/2022 2251
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/15/2022 2251
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/15/2022 2251
MeFOSA	ND		1	2.0	0.35	ug/kg	06/15/2022 2251
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/15/2022 2251
PFBS	ND		1	1.0	0.13	ug/kg	06/15/2022 2251
PFDS	ND		1	1.0	0.22	ug/kg	06/15/2022 2251
PFHpS	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFNS	ND		1	1.0	0.22	ug/kg	06/15/2022 2251
PFOSA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFPeS	ND		1	1.0	0.19	ug/kg	06/15/2022 2251
PFHxS	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFBA	ND		1	1.0	0.42	ug/kg	06/15/2022 2251
PFDA	ND		1	1.0	0.16	ug/kg	06/15/2022 2251
PFDoA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFHpA	ND		1	1.0	0.14	ug/kg	06/15/2022 2251
PFHxA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFNA	ND		1	1.0	0.15	ug/kg	06/15/2022 2251
PFOA	ND		1	1.0	0.21	ug/kg	06/15/2022 2251
PFPeA	ND		1	1.0	0.16	ug/kg	06/15/2022 2251
PFTeDA	ND		1	1.0	0.19	ug/kg	06/15/2022 2251
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/15/2022 2251
PFUdA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFOS	ND		1	1.0	0.36	ug/kg	06/15/2022 2251

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		101	25-150
13C2_6:2FTS		94	25-150
13C2_8:2FTS		110	25-150
13C2_PFDoA		104	25-150
13C2_PFTeDA		101	25-150
13C3_PFBs		97	25-150
13C3_PFHxS		115	25-150
13C4_PFBA		97	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		103	25-150
13C5_PFPeA		94	25-150
13C6_PFDA		102	25-150
13C7_PFUdA		93	25-150
13C8_PFOA		92	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44737-001

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		106	25-150
13C8_PFOA		97	10-150
13C9_PFOA		97	25-150
d5-EtFOA		100	25-150
d-MeFOA		74	10-150
d3-MeFOA		102	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44737-002

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.7		1	87	50-150	06/15/2022 2302
6:2 FTS	1.9	1.9		1	103	50-150	06/15/2022 2302
4:2 FTS	1.9	2.1		1	116	50-150	06/15/2022 2302
EtFOSAA	2.0	2.1		1	105	50-150	06/15/2022 2302
MeFOSA	2.0	1.8		1	90	50-150	06/15/2022 2302
MeFOSAA	2.0	2.1		1	103	50-150	06/15/2022 2302
PFBS	1.8	1.8		1	105	50-150	06/15/2022 2302
PFDS	1.9	1.9		1	98	50-150	06/15/2022 2302
PFHpS	1.9	2.0		1	107	50-150	06/15/2022 2302
PFNS	1.9	2.1		1	111	50-150	06/15/2022 2302
PFOSA	2.0	2.0		1	98	50-150	06/15/2022 2302
PFPeS	1.9	1.8		1	94	50-150	06/15/2022 2302
PFHxS	1.8	1.9		1	106	50-150	06/15/2022 2302
PFBA	2.0	2.0		1	100	50-150	06/15/2022 2302
PFDA	2.0	2.0		1	100	50-150	06/15/2022 2302
PFDoA	2.0	2.1		1	107	50-150	06/15/2022 2302
PFHpA	2.0	2.1		1	103	50-150	06/15/2022 2302
PFHxA	2.0	2.0		1	98	50-150	06/15/2022 2302
PFNA	2.0	2.1		1	103	50-150	06/15/2022 2302
PFOA	2.0	2.1		1	104	50-150	06/15/2022 2302
PFPeA	2.0	2.0		1	101	50-150	06/15/2022 2302
PFTeDA	2.0	2.1		1	105	50-150	06/15/2022 2302
PFTTrDA	2.0	1.9		1	97	50-150	06/15/2022 2302
PFUdA	2.0	2.1		1	105	50-150	06/15/2022 2302
PFOS	1.9	1.9		1	104	50-150	06/15/2022 2302

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		114	25-150
13C2_6:2FTS		112	25-150
13C2_8:2FTS		122	25-150
13C2_PFDoA		116	25-150
13C2_PFTeDA		111	25-150
13C3_PFBs		113	25-150
13C3_PFHxS		126	25-150
13C4_PFBA		109	25-150
13C4_PFHpA		116	25-150
13C5_PFHxA		114	25-150
13C5_PFPeA		112	25-150
13C6_PFDA		110	25-150
13C7_PFUdA		108	25-150
13C8_PFOA		114	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44737-002

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		112	25-150
13C8_PFOA		119	10-150
13C9_PFNA		111	25-150
d5-EtFOSAA		114	25-150
d-MeFOA		93	10-150
d3-MeFOA		113	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44855-001

Matrix: Solid

Batch: 44855

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/14/2022 1512

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/15/2022 1754
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/15/2022 1754
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/15/2022 1754
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/15/2022 1754
MeFOSA	ND		1	2.0	0.35	ug/kg	06/15/2022 1754
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/15/2022 1754
PFBS	ND		1	1.0	0.13	ug/kg	06/15/2022 1754
PFDS	ND		1	1.0	0.22	ug/kg	06/15/2022 1754
PFHpS	ND		1	1.0	0.18	ug/kg	06/15/2022 1754
PFNS	ND		1	1.0	0.22	ug/kg	06/15/2022 1754
PFOSA	ND		1	1.0	0.18	ug/kg	06/15/2022 1754
PFPeS	ND		1	1.0	0.19	ug/kg	06/15/2022 1754
PFHxS	ND		1	1.0	0.18	ug/kg	06/15/2022 1754
PFBA	ND		1	1.0	0.42	ug/kg	06/15/2022 1754
PFDA	ND		1	1.0	0.16	ug/kg	06/15/2022 1754
PFDoA	ND		1	1.0	0.18	ug/kg	06/15/2022 1754
PFHpA	ND		1	1.0	0.14	ug/kg	06/15/2022 1754
PFHxA	ND		1	1.0	0.18	ug/kg	06/15/2022 1754
PFNA	ND		1	1.0	0.15	ug/kg	06/15/2022 1754
PFOA	ND		1	1.0	0.21	ug/kg	06/15/2022 1754
PFPeA	ND		1	1.0	0.16	ug/kg	06/15/2022 1754
PFTeDA	ND		1	1.0	0.19	ug/kg	06/15/2022 1754
PFTrDA	ND		1	1.0	0.17	ug/kg	06/15/2022 1754
PFUdA	ND		1	1.0	0.18	ug/kg	06/15/2022 1754
PFOS	ND		1	1.0	0.36	ug/kg	06/15/2022 1754

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		98	25-150
13C2_6:2FTS		114	25-150
13C2_8:2FTS		100	25-150
13C2_PFDoA		100	25-150
13C2_PFTeDA		100	25-150
13C3_PFBs		96	25-150
13C3_PFHxS		114	25-150
13C4_PFBA		98	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		92	25-150
13C6_PFDA		104	25-150
13C7_PFUdA		91	25-150
13C8_PFOA		99	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44855-001

Matrix: Solid

Batch: 44855

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/14/2022 1512

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		101	25-150
13C8_PFOA		101	10-150
13C9_PFNA		100	25-150
d5-EtFOSAA		104	25-150
d-MeFOA		93	10-150
d3-MeFOA		97	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44855-002

Matrix: Solid

Batch: 44855

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/14/2022 1512

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	2.0	1		104	50-150	06/15/2022 1805
6:2 FTS	1.9	2.4	1		127	50-150	06/15/2022 1805
4:2 FTS	1.9	2.2	1		117	50-150	06/15/2022 1805
EtFOSAA	2.0	1.9	1		96	50-150	06/15/2022 1805
MeFOSA	2.0	2.0	1		101	50-150	06/15/2022 1805
MeFOSAA	2.0	2.3	1		114	50-150	06/15/2022 1805
PFBS	1.8	2.0	1		115	50-150	06/15/2022 1805
PFDS	1.9	2.2	1		114	50-150	06/15/2022 1805
PFHpS	1.9	2.0	1		105	50-150	06/15/2022 1805
PFNS	1.9	2.2	1		114	50-150	06/15/2022 1805
PFOSA	2.0	2.2	1		111	50-150	06/15/2022 1805
PFPeS	1.9	2.5	1		134	50-150	06/15/2022 1805
PFHxS	1.8	2.0	1		112	50-150	06/15/2022 1805
PFBA	2.0	2.2	1		110	50-150	06/15/2022 1805
PFDA	2.0	2.1	1		105	50-150	06/15/2022 1805
PFDaA	2.0	2.1	1		106	50-150	06/15/2022 1805
PFHpA	2.0	2.3	1		117	50-150	06/15/2022 1805
PFHxA	2.0	1.9	1		97	50-150	06/15/2022 1805
PFNA	2.0	2.3	1		114	50-150	06/15/2022 1805
PFOA	2.0	2.2	1		109	50-150	06/15/2022 1805
PFPeA	2.0	2.2	1		112	50-150	06/15/2022 1805
PFTeDA	2.0	2.4	1		118	50-150	06/15/2022 1805
PFTTrDA	2.0	2.0	1		99	50-150	06/15/2022 1805
PFUdA	2.0	2.3	1		113	50-150	06/15/2022 1805
PFOS	1.9	2.0	1		108	50-150	06/15/2022 1805

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		98	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		105	25-150
13C2_PFDaA		107	25-150
13C2_PFTeDA		94	25-150
13C3_PFBs		96	25-150
13C3_PFHxS		118	25-150
13C4_PFBa		98	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		109	25-150
13C5_PFPeA		94	25-150
13C6_PFDa		103	25-150
13C7_PFUdA		93	25-150
13C8_PFOA		105	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44855-002

Matrix: Solid

Batch: 44855

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/14/2022 1512

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		94	25-150
13C8_PFOA		94	10-150
13C9_PFOA		97	25-150
d5-EtFOSAA		99	25-150
d-MeFOA		96	10-150
d3-MeFOSAA		100	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134041

Client BGES		Report to Contact Jayne Martin		Telephone No. / E-mail 903-644-2808 / jayne@bges.com		Quote No. 00102286	
Address 1047 E 6th Ave		Samples Signatures <i>[Signature]</i>		Analysis: (Attach list if more space is needed)		Page 18 of 18	
City Anchorage AK 99501		X		Matrix		Remarks / Cooler I.D.	
Project Name Honer Airport		Finned Name San Buddy		North Contaminants by Preservative Type		E702 XE24090	
Project No.		F.O. No.		Matrix		Remarks / Cooler I.D.	
Sample ID / Description (Containers for each sample may be combined on one line.)		Collection Time (Matrix)		Collection Date (Matrix)		Remarks / Cooler I.D.	
SB171-1		1624		6		3	
SB169-1		1644		6		3	
SB173-2		1659		6		3	
SB171-2		1037		6		Hold	
SB178-2		1622		6		Hold	
SB170-2		1641		6		Hold	
SB173-2		1128		6		Hold	
SB169-2		1649		6		Hold	
SB174-2		1526		6		Hold	
SB336-2		1209		6		Hold	

OC Requirements (Specify)
Lead II

1. Received by: [Signature] Date: 5/23/22 Time: 09:30
 2. Received by: [Signature] Date: [] Time: []
 3. Received by: [Signature] Date: [] Time: []
 4. Requisitioned by: **Federy** Date: 5/24/22 Time: 15:35

LAB USE ONLY
 Received on ice (Crab) Yes No Ice Pack Y N
 Receipt Temp. **12.3** °C

Turn Around Time Required (Prior lab approval required for expedited MAT)
 Standard Rush (Specify)

1. Requisitioned by: [Signature]
 2. Requisitioned by: [Signature]

3. Requisitioned by: [Signature]
 4. Requisitioned by: **Federy**

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Samples(s); PINK-Field/Cient Copy

Document Number: MEX03M2-07



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Number 134034

25989

Client B6-ES 1042 E 6th Ave Anchorage AK 99501 Project Name: Homer Airport Project No.		Report to Contact Jaye Martin Sampler's Signature: <i>[Signature]</i> Product Name: Sam Bundy		Telephone No. / E-mail 907-644-2400 / jayam@pacelabs.com Analysis (Allow 48 hr. if more space is needed)		Quote No. 25989 Page 18 of 18 XE24090 ETRZ Renewal / Doctor I.D.	
Sample ID / Description (Containers for each sample may be contained on one line.)	Collection Date(s)	Collection Time (Military)	Matrix	No. of Containers by Preservative Type	Analysis	Retention	Storage
SB107-4	5-21-22	1613	X	1			
SB112-2	5-21-22	1640	X	1			
EB-521	5-21-22	1735	G X	2			
EB-522	5-22-22	1725	G X	2			
SB184-1		1426	X	1			
SD185-1		1354	X	1			
SB173-1		1656	X	1			
SB176-3		1550	X	1			
SB337-1		1137	X	1			
SB174-1		1521	X	1			

Turn Around Time Required (Prior lab approval required for expedited TAT) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab	Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown	QC Requirements (Specify) Level II
1. Requisitioned by: <i>[Signature]</i> Date: 5/23/22 Time: 0830	1. Received by: Date: Time:	Date: Time:	Date: Time:
2. Requisitioned by: Date: Time:	2. Received by: Date: Time:	Date: Time:	Date: Time:
3. Requisitioned by: Date: Time:	3. Received by: Date: Time:	Date: Time:	Date: Time:
4. Requisitioned by: <i>Fedex</i> Date: 5/24/22 Time: 1535 Note: All samples are retained for four weeks from receipt unless other arrangements are made.	4. Laboratory received by: <i>[Signature]</i> Date: 5/24/22 Time: 1535	Recs/Spcl Temp: 12.3 °C Temp Blank: <input type="checkbox"/> Y <input type="checkbox"/> N	Temp Blank: <input type="checkbox"/> Y <input type="checkbox"/> N

Document Number: MED00002-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s), PINK-Field/Client Copy



Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCGL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGES Inc

Cooler Inspected by/date: KDRW / 05/24/2022

Lot #: XE24393

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>22-480</u>	
12.3 / 12.3 °C 8.0 / 8.0 °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: <u>phone / email / face-to-face</u> (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # _____
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is <u>no</u>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>KDRW</u> Date: <u>05/24/2022</u>	

Comments: Ice Melted



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1868854
Lot Number: **XE24088**
Date Completed: 06/22/2022

07/05/2022 12:45 PM
Approved and released by:
Project Manager II: **Edward Barnett**



The electronic signature above is the equivalent of a handwritten signature.
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE24088

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE24088-010, XE24088-011, XE24088-012, XE24088-013, XE24088-014, XE24088-015, XE24088-017, XE24088-018 and XE24088-019. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside control limits: XE24088-016. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE24088
Project Name: Homer Airport
Project Number: WG1868854

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB172-2	Solid	05/22/2022 1654	05/24/2022
002	SB71-4	Solid	05/22/2022 1040	05/24/2022
003	SB184-2	Solid	05/22/2022 1431	05/24/2022
004	SB69-2	Solid	05/22/2022 1049	05/24/2022
005	SB72-2	Solid	05/22/2022 1120	05/24/2022
006	SB175-2	Solid	05/22/2022 1600	05/24/2022
007	SB37-2	Solid	05/22/2022 1142	05/24/2022
008	SB185-2	Solid	05/22/2022 1404	05/24/2022
009	SB70-2	Solid	05/22/2022 1106	05/24/2022
010	SB72-1	Solid	05/22/2022 1114	05/24/2022
011	SB175-1	Solid	05/22/2022 1555	05/24/2022
012	SB177-1	Solid	05/22/2022 1608	05/24/2022
013	SB176-1	Solid	05/22/2022 1541	05/24/2022
014	SB34-1	Solid	05/22/2022 1219	05/24/2022
015	SB37-3	Solid	05/22/2022 1144	05/24/2022
016	SB73-1	Solid	05/22/2022 1123	05/24/2022
017	SB35-1	Solid	05/22/2022 1151	05/24/2022
018	SB38-1	Solid	05/22/2022 1230	05/24/2022
019	SB36-1	Solid	05/22/2022 1204	05/24/2022

(19 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
 Pace Analytical LLC
 Lot Number: XE24088
 Project Name: Homer Airport
 Project Number: WG1868854

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
010	SB72-1	Solid	PFHxS	PFAS by ID	1.3	J	ug/kg	7
010	SB72-1	Solid	PFHpA	PFAS by ID	0.48	J	ug/kg	7
010	SB72-1	Solid	PFHxA	PFAS by ID	0.77	J	ug/kg	7
010	SB72-1	Solid	PFPeA	PFAS by ID	1.2	J	ug/kg	7
010	SB72-1	Solid	PFOS	PFAS by ID	2.3	J	ug/kg	7
011	SB175-1	Solid	PFBS	PFAS by ID	0.48	J	ug/kg	9
011	SB175-1	Solid	PFHxS	PFAS by ID	2.3	J	ug/kg	9
011	SB175-1	Solid	PFPeA	PFAS by ID	0.53	J	ug/kg	9
011	SB175-1	Solid	PFOS	PFAS by ID	1.4	J	ug/kg	9
012	SB177-1	Solid	PFOS	PFAS by ID	6.8		ug/kg	11
013	SB176-1	Solid	PFHpS	PFAS by ID	0.28	J	ug/kg	13
013	SB176-1	Solid	PFPeS	PFAS by ID	0.33	J	ug/kg	13
013	SB176-1	Solid	PFHxS	PFAS by ID	3.9		ug/kg	13
013	SB176-1	Solid	PFDA	PFAS by ID	0.24	J	ug/kg	13
013	SB176-1	Solid	PFHpA	PFAS by ID	0.23	J	ug/kg	13
013	SB176-1	Solid	PFNA	PFAS by ID	0.30	J	ug/kg	13
013	SB176-1	Solid	PFOA	PFAS by ID	0.48	J	ug/kg	13
013	SB176-1	Solid	PFTrDA	PFAS by ID	0.26	J	ug/kg	13
013	SB176-1	Solid	PFUDa	PFAS by ID	0.50	J	ug/kg	13
013	SB176-1	Solid	PFOS	PFAS by ID	11		ug/kg	13
014	SB34-1	Solid	PFOS	PFAS by ID	1.9	J	ug/kg	15
015	SB37-3	Solid	PFHxS	PFAS by ID	0.75	J	ug/kg	17
015	SB37-3	Solid	PFHxA	PFAS by ID	0.46	J	ug/kg	17
015	SB37-3	Solid	PFPeA	PFAS by ID	0.35	J	ug/kg	17
015	SB37-3	Solid	PFOS	PFAS by ID	2.8		ug/kg	17
016	SB73-1	Solid	6:2 FTS	PFAS by ID	2.4	JQ	ug/kg	19
016	SB73-1	Solid	PFPeS	PFAS by ID	0.58	J	ug/kg	19
016	SB73-1	Solid	PFHxS	PFAS by ID	2.3	J	ug/kg	19
016	SB73-1	Solid	PFBA	PFAS by ID	1.3	J	ug/kg	19
016	SB73-1	Solid	PFHpA	PFAS by ID	0.52	J	ug/kg	19
016	SB73-1	Solid	PFHxA	PFAS by ID	1.2	J	ug/kg	19
016	SB73-1	Solid	PFOA	PFAS by ID	0.58	J	ug/kg	19
016	SB73-1	Solid	PFPeA	PFAS by ID	1.5	J	ug/kg	19
016	SB73-1	Solid	PFOS	PFAS by ID	4.8		ug/kg	19
017	SB35-1	Solid	PFOS	PFAS by ID	1.3	J	ug/kg	21
018	SB38-1	Solid	PFOS	PFAS by ID	1.2	J	ug/kg	23

(36 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-010
Description: SB72-1	Matrix: Solid
Date Sampled: 05/22/2022 1114	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 40.7 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/14/2022 1638	ASD	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.7	0.65	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	4.7	0.72	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.7	0.51	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.7	0.68	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.7	0.82	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.7	0.93	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.4	0.31	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.4	0.53	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.4	0.41	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.4	0.52	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.4	0.44	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.3	J	2.4	0.42	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.4	0.98	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.4	0.37	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.48	J	2.4	0.34	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.77	J	2.4	0.44	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.4	0.35	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.4	0.50	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	1.2	J	2.4	0.37	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.4	0.45	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.4	0.41	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.4	0.44	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.3	J	2.4	0.84	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	258	25-150
13C2_6:2FTS	N	247	25-150
13C2_8:2FTS	N	387	25-150
13C2_PFDaA		76	25-150
13C2_PFTeDA		59	25-150
13C3_PFBs		74	25-150
13C3_PFHxS		74	25-150
13C4_PFBa		62	25-150
13C4_PFHpA		76	25-150
13C5_PFHxA		71	25-150
13C5_PFPeA		66	25-150
13C6_PFDa		86	25-150
13C7_PFUdA		83	25-150
13C8_PFOA		72	25-150
13C8_PFOs		78	25-150
13C8_PFOsA		70	10-150
13C9_PFNa		85	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-010
Description: SB72-1	Matrix: Solid
Date Sampled: 05/22/2022 1114	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 40.7 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		100	25-150
d-MeFOSA		59	10-150
d3-MeFOSAA		95	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-011
Description: SB175-1	Matrix: Solid
Date Sampled: 05/22/2022 1555	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 26.6 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/13/2022 2053	MMM	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	6.4	0.88	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	6.4	0.99	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	6.4	0.70	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		6.4	0.93	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		6.4	1.1	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		6.4	1.3	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.48	J	3.2	0.42	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.2	0.72	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.2	0.56	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.2	0.71	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.2	0.57	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.2	0.60	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	2.3	J	3.2	0.57	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.2	1.3	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.2	0.51	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.2	0.57	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.2	0.46	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.2	0.59	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.2	0.48	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.2	0.68	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.53	J	3.2	0.51	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.2	0.61	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.2	0.55	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.2	0.59	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.4	J	3.2	1.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	255	25-150
13C2_6:2FTS	N	237	25-150
13C2_8:2FTS	N	348	25-150
13C2_PFDaA		93	25-150
13C2_PFTeDA		59	25-150
13C3_PFBs		90	25-150
13C3_PFHxS		91	25-150
13C4_PFBa		81	25-150
13C4_PFHpA		89	25-150
13C5_PFHxA		83	25-150
13C5_PFPeA		83	25-150
13C6_PFDa		86	25-150
13C7_PFUdA		96	25-150
13C8_PFOA		82	25-150
13C8_PFOs		86	25-150
13C8_PFOsA		79	10-150
13C9_PFNa		90	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-011
Description: SB175-1	Matrix: Solid
Date Sampled: 05/22/2022 1555	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 26.6 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		119	25-150
d-MeFOSA		69	10-150
d3-MeFOSAA		111	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-012
Description: SB177-1	Matrix: Solid
Date Sampled: 05/22/2022 1608	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 94.7 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/13/2022 2104	MMM	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.0	0.27	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.30	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.21	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.0	0.29	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	2.0	0.39	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		0.99	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.99	0.22	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.99	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		0.99	0.18	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		0.99	0.41	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.99	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		0.99	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		0.99	0.18	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.99	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		0.99	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		0.99	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.99	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.99	0.18	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	6.8		0.99	0.35	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		133	25-150
13C2_6:2FTS		129	25-150
13C2_8:2FTS	N	190	25-150
13C2_PFDaA		141	25-150
13C2_PFTeDA		122	25-150
13C3_PFBS		123	25-150
13C3_PFHxS		122	25-150
13C4_PFBA		115	25-150
13C4_PFHpA		110	25-150
13C5_PFHxA		113	25-150
13C5_PFPeA		117	25-150
13C6_PFDA		116	25-150
13C7_PFUdA		140	25-150
13C8_PFOA		118	25-150
13C8_PFOS		118	25-150
13C8_PFOSA		123	10-150
13C9_PFNA		114	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-012
Description: SB177-1	Matrix: Solid
Date Sampled: 05/22/2022 1608	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 94.7 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	187	25-150
d-MeFOSA		103	10-150
d3-MeFOSAA	N	159	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-013
Description: SB176-1	Matrix: Solid
Date Sampled: 05/22/2022 1541	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 71.9 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/13/2022 2115	MMM	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.7	0.37	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.7	0.41	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.7	0.29	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.7	0.39	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.7	0.47	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.7	0.53	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.3	0.18	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.3	0.30	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.28	J	1.3	0.24	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.3	0.30	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.3	0.24	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.33	J	1.3	0.25	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	3.9		1.3	0.24	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.3	0.56	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.24	J	1.3	0.21	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.3	0.24	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.23	J	1.3	0.19	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.3	0.25	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.30	J	1.3	0.20	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.48	J	1.3	0.29	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.3	0.21	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.3	0.26	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTTrDA)	72629-94-8	PFAS by ID SOP	0.26	J	1.3	0.23	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	0.50	J	1.3	0.25	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	11		1.3	0.48	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	196	25-150
13C2_6:2FTS	N	219	25-150
13C2_8:2FTS	N	287	25-150
13C2_PFDaA		121	25-150
13C2_PFTeDA		100	25-150
13C3_PFBs		105	25-150
13C3_PFHxS		104	25-150
13C4_PFBa		102	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		100	25-150
13C5_PFPeA		102	25-150
13C6_PFDa		113	25-150
13C7_PFUdA		125	25-150
13C8_PFOA		101	25-150
13C8_PFOs		105	25-150
13C8_PFOsA		105	10-150
13C9_PFNa		109	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-013
Description: SB176-1	Matrix: Solid
Date Sampled: 05/22/2022 1541	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 71.9 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	165	25-150
d-MeFOSA		74	10-150
d3-MeFOSAA		149	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-014
Description: SB34-1	Matrix: Solid
Date Sampled: 05/22/2022 1219	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 37.3 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/13/2022 2126	MMM	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.8	0.66	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	4.8	0.73	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.8	0.52	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.8	0.69	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.8	0.83	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.8	0.95	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.4	0.31	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.4	0.53	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.4	0.53	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.4	0.44	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.4	1.0	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.4	0.38	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.4	0.34	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.4	0.44	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.4	0.36	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.4	0.51	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.4	0.38	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.4	0.45	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.4	0.41	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.4	0.44	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.9	J	2.4	0.85	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	280	25-150
13C2_6:2FTS	N	294	25-150
13C2_8:2FTS	N	394	25-150
13C2_PFDaA		91	25-150
13C2_PFTeDA		65	25-150
13C3_PFBs		94	25-150
13C3_PFHxS		95	25-150
13C4_PFBa		88	25-150
13C4_PFHpA		90	25-150
13C5_PFHxA		93	25-150
13C5_PFPeA		85	25-150
13C6_PFDa		95	25-150
13C7_PFUdA		98	25-150
13C8_PFOA		90	25-150
13C8_PFOs		80	25-150
13C8_PFOsA		83	10-150
13C9_PFNa		89	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-014
Description: SB34-1	Matrix: Solid
Date Sampled: 05/22/2022 1219	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 37.3 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		114	25-150
d-MeFOSA		56	10-150
d3-MeFOSAA		98	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-015
Description: SB37-3	Matrix: Solid
Date Sampled: 05/22/2022 1144	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 48.9 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/13/2022 2159	MMM	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.9	0.54	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.9	0.60	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.9	0.43	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.9	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.9	0.68	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.9	0.78	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.0	0.26	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.0	0.44	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.0	0.43	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.0	0.37	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.75	J	2.0	0.35	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.0	0.82	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.0	0.31	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.0	0.28	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.46	J	2.0	0.36	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.0	0.29	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.0	0.42	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.35	J	2.0	0.31	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.0	0.37	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.8		2.0	0.70	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	270	25-150
13C2_6:2FTS	N	242	25-150
13C2_8:2FTS	N	344	25-150
13C2_PFDaA		106	25-150
13C2_PFTeDA		77	25-150
13C3_PFBS		96	25-150
13C3_PFHxS		93	25-150
13C4_PFBA		89	25-150
13C4_PFHpA		93	25-150
13C5_PFHxA		93	25-150
13C5_PFPeA		94	25-150
13C6_PFDA		102	25-150
13C7_PFUdA		108	25-150
13C8_PFOA		91	25-150
13C8_PFOS		91	25-150
13C8_PFOSA		91	10-150
13C9_PFNA		101	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-015
Description: SB37-3	Matrix: Solid
Date Sampled: 05/22/2022 1144	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 48.9 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		138	25-150
d-MeFOSA		67	10-150
d3-MeFOSAA		125	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-016
Description: SB73-1	Matrix: Solid
Date Sampled: 05/22/2022 1123	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 33.7 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/16/2022 0006	MMM	06/13/2022 1754	44737

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	5.5	0.75	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	2.4	JQ	5.5	0.84	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	5.5	0.60	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		5.5	0.79	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		5.5	0.96	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		5.5	1.1	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.7	0.36	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.7	0.61	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.7	0.48	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.7	0.60	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.7	0.48	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.58	J	2.7	0.51	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	2.3	J	2.7	0.48	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	1.3	J	2.7	1.1	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.7	0.43	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.7	0.48	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.52	J	2.7	0.39	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	1.2	J	2.7	0.51	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.7	0.41	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.58	J	2.7	0.58	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	1.5	J	2.7	0.44	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.7	0.52	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.7	0.47	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.7	0.51	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.8		2.7	0.98	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	280	25-150
13C2_6:2FTS	N	246	25-150
13C2_8:2FTS	N	335	25-150
13C2_PFDa		92	25-150
13C2_PFTeDA		62	25-150
13C3_PFBs		82	25-150
13C3_PFHxS		99	25-150
13C4_PFBa		74	25-150
13C4_PFHpA		87	25-150
13C5_PFHxA		90	25-150
13C5_PFPeA		77	25-150
13C6_PFDa		89	25-150
13C7_PFUdA		82	25-150
13C8_PFOA		76	25-150
13C8_PFOs		82	25-150
13C8_PFOsA		76	10-150
13C9_PFNa		88	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-016
Description: SB73-1	Matrix: Solid
Date Sampled: 05/22/2022 1123	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 33.7 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		106	25-150
d-MeFOSA		61	10-150
d3-MeFOSAA		103	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-017
Description: SB35-1	Matrix: Solid
Date Sampled: 05/22/2022 1151	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 27.8 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/13/2022 2209	MMM	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	6.1	0.84	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	6.1	0.93	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	6.1	0.66	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	6.1	0.88	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		6.1	1.1	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	6.1	1.2	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.1	0.40	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.1	0.68	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.1	0.54	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.1	0.67	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.1	0.54	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.1	0.57	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.1	0.54	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.1	1.3	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.1	0.48	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.1	0.54	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.1	0.44	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.1	0.56	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.1	0.46	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.1	0.65	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.1	0.48	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.1	0.58	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.1	0.53	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.1	0.56	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.3	J	3.1	1.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	269	25-150
13C2_6:2FTS	N	235	25-150
13C2_8:2FTS	N	341	25-150
13C2_PFDaA		114	25-150
13C2_PFTeDA		88	25-150
13C3_PFBs		100	25-150
13C3_PFHxS		104	25-150
13C4_PFBa		100	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		107	25-150
13C5_PFPeA		100	25-150
13C6_PFDa		106	25-150
13C7_PFUdA		121	25-150
13C8_PFOA		102	25-150
13C8_PFOs		102	25-150
13C8_PFOsA		102	10-150
13C9_PFNa		110	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-017
Description: SB35-1	Matrix: Solid
Date Sampled: 05/22/2022 1151	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 27.8 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	162	25-150
d-MeFOSA		77	10-150
d3-MeFOSAA	N	151	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-018
Description: SB38-1	Matrix: Solid
Date Sampled: 05/22/2022 1230	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 29.6 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/13/2022 2220	MMM	06/05/2022 1402	43848

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	5.6	0.76	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	5.6	0.85	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	5.6	0.60	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		5.6	0.81	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		5.6	0.97	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		5.6	1.1	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.8	0.36	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.8	0.62	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.8	0.49	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.8	0.61	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.8	0.49	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.8	0.52	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.8	0.49	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.8	1.2	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.8	0.44	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDaA)	307-55-1	PFAS by ID SOP	ND		2.8	0.49	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.8	0.40	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.8	0.52	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.8	0.42	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.8	0.59	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.8	0.44	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.8	0.53	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.8	0.48	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.8	0.52	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.2	J	2.8	0.99	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	314	25-150
13C2_6:2FTS	N	267	25-150
13C2_8:2FTS	N	374	25-150
13C2_PFDaA		85	25-150
13C2_PFTeDA		52	25-150
13C3_PFBBS		90	25-150
13C3_PFHxS		87	25-150
13C4_PFBBA		81	25-150
13C4_PFHpA		84	25-150
13C5_PFHxA		85	25-150
13C5_PFPeA		82	25-150
13C6_PFDA		84	25-150
13C7_PFUdA		87	25-150
13C8_PFOA		83	25-150
13C8_PFOS		80	25-150
13C8_PFOSA		75	10-150
13C9_PFNA		80	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-018
Description: SB38-1	Matrix: Solid
Date Sampled: 05/22/2022 1230	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 29.6 05/30/2022 1822

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		96	25-150
d-MeFOSA		57	10-150
d3-MeFOSAA		82	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-019
Description: SB36-1	Matrix: Solid
Date Sampled: 05/22/2022 1204	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 21.9 05/30/2022 1822
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/16/2022 0016	MMM	06/13/2022 1754	44737

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	8.0	1.1	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	8.0	1.2	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	8.0	0.87	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		8.0	1.2	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		8.0	1.4	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		8.0	1.6	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		4.0	0.52	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		4.0	0.89	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		4.0	0.70	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		4.0	0.88	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		4.0	0.71	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		4.0	0.75	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		4.0	0.71	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		4.0	1.7	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		4.0	0.63	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		4.0	0.70	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		4.0	0.57	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		4.0	0.74	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		4.0	0.60	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		4.0	0.85	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		4.0	0.64	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		4.0	0.76	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		4.0	0.69	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		4.0	0.74	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		4.0	1.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	252	25-150
13C2_6:2FTS	N	236	25-150
13C2_8:2FTS	N	301	25-150
13C2_PFDaA		81	25-150
13C2_PFTeDA		49	25-150
13C3_PFBs		77	25-150
13C3_PFHxS		95	25-150
13C4_PFBa		67	25-150
13C4_PFHpA		86	25-150
13C5_PFHxA		84	25-150
13C5_PFPeA		74	25-150
13C6_PFDa		83	25-150
13C7_PFUdA		76	25-150
13C8_PFOA		77	25-150
13C8_PFOs		75	25-150
13C8_PFOsA		69	10-150
13C9_PFNa		77	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24088-019	
Description: SB36-1	Matrix: Solid	
Date Sampled: 05/22/2022 1204	Project Name: Homer Airport	% Solids: 21.9 05/30/2022 1822
Date Received: 05/24/2022	Project Number: WG1868854	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		97	25-150
d-MeFOSA		53	10-150
d3-MeFOSAA		94	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ43848-001

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/13/2022 1904
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/13/2022 1904
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/13/2022 1904
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/13/2022 1904
MeFOSA	ND		1	2.0	0.35	ug/kg	06/13/2022 1904
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/13/2022 1904
PFBS	ND		1	1.0	0.13	ug/kg	06/13/2022 1904
PFDS	ND		1	1.0	0.22	ug/kg	06/13/2022 1904
PFHpS	ND		1	1.0	0.18	ug/kg	06/13/2022 1904
PFNS	ND		1	1.0	0.22	ug/kg	06/13/2022 1904
PFOSA	ND		1	1.0	0.18	ug/kg	06/13/2022 1904
PFPeS	ND		1	1.0	0.19	ug/kg	06/13/2022 1904
PFHxS	ND		1	1.0	0.18	ug/kg	06/13/2022 1904
PFBA	ND		1	1.0	0.42	ug/kg	06/13/2022 1904
PFDA	ND		1	1.0	0.16	ug/kg	06/13/2022 1904
PFDoA	ND		1	1.0	0.18	ug/kg	06/13/2022 1904
PFHpA	ND		1	1.0	0.14	ug/kg	06/13/2022 1904
PFHxA	ND		1	1.0	0.18	ug/kg	06/13/2022 1904
PFNA	ND		1	1.0	0.15	ug/kg	06/13/2022 1904
PFOA	ND		1	1.0	0.21	ug/kg	06/13/2022 1904
PFPeA	ND		1	1.0	0.16	ug/kg	06/13/2022 1904
PFTeDA	ND		1	1.0	0.19	ug/kg	06/13/2022 1904
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/13/2022 1904
PFUdA	ND		1	1.0	0.18	ug/kg	06/13/2022 1904
PFOS	ND		1	1.0	0.36	ug/kg	06/13/2022 1904

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		107	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		107	25-150
13C2_PFDoA		102	25-150
13C2_PFTeDA		109	25-150
13C3_PFBs		112	25-150
13C3_PFHxS		112	25-150
13C4_PFBA		105	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		107	25-150
13C5_PFPeA		107	25-150
13C6_PFDA		100	25-150
13C7_PFUdA		107	25-150
13C8_PFOA		110	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43848-001

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		104	25-150
13C8_PFOA		97	10-150
13C9_PFOA		98	25-150
d5-EtFOSAA		109	25-150
d-MeFOA		82	10-150
d3-MeFOSAA		108	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43848-002

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.9		1	100	50-150	06/13/2022 1915
6:2 FTS	1.9	2.3		1	119	50-150	06/13/2022 1915
4:2 FTS	1.9	1.9		1	102	50-150	06/13/2022 1915
EtFOSAA	2.0	2.1		1	103	50-150	06/13/2022 1915
MeFOSA	2.0	2.4		1	120	50-150	06/13/2022 1915
MeFOSAA	2.0	2.0		1	98	50-150	06/13/2022 1915
PFBS	1.8	1.9		1	106	50-150	06/13/2022 1915
PFDS	1.9	2.3		1	120	50-150	06/13/2022 1915
PFHpS	1.9	2.0		1	105	50-150	06/13/2022 1915
PFNS	1.9	2.2		1	112	50-150	06/13/2022 1915
PFOSA	2.0	2.2		1	108	50-150	06/13/2022 1915
PFPeS	1.9	1.9		1	99	50-150	06/13/2022 1915
PFHxS	1.8	2.0		1	110	50-150	06/13/2022 1915
PFBA	2.0	2.2		1	110	50-150	06/13/2022 1915
PFDA	2.0	2.1		1	104	50-150	06/13/2022 1915
PFDoA	2.0	2.1		1	104	50-150	06/13/2022 1915
PFHpA	2.0	2.2		1	109	50-150	06/13/2022 1915
PFHxA	2.0	2.2		1	110	50-150	06/13/2022 1915
PFNA	2.0	2.0		1	100	50-150	06/13/2022 1915
PFOA	2.0	2.1		1	104	50-150	06/13/2022 1915
PFPeA	2.0	2.1		1	107	50-150	06/13/2022 1915
PFTeDA	2.0	2.2		1	108	50-150	06/13/2022 1915
PFTTrDA	2.0	2.1		1	103	50-150	06/13/2022 1915
PFUdA	2.0	2.3		1	113	50-150	06/13/2022 1915
PFOS	1.9	1.8		1	97	50-150	06/13/2022 1915

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		104	25-150
13C2_6:2FTS		98	25-150
13C2_8:2FTS		106	25-150
13C2_PFDoA		103	25-150
13C2_PFTeDA		104	25-150
13C3_PFBs		109	25-150
13C3_PFHxS		104	25-150
13C4_PFBA		103	25-150
13C4_PFHpA		98	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		102	25-150
13C6_PFDA		99	25-150
13C7_PFUdA		102	25-150
13C8_PFOA		105	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43848-002

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		101	25-150
13C8_PFOA		96	10-150
13C9_PFOA		103	25-150
d5-EtFOSAA		103	25-150
d-MeFOA		84	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: XE24088-010MS

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	ND	4.6	3.9		1	85	50-150	06/14/2022 1649
6:2 FTS	ND	4.5	4.8		1	105	50-150	06/14/2022 1649
4:2 FTS	ND	4.4	4.7		1	107	50-150	06/14/2022 1649
EtFOSAA	ND	4.8	4.7		1	99	50-150	06/14/2022 1649
MeFOSA	ND	4.8	4.4		1	91	50-150	06/14/2022 1649
MeFOSAA	ND	4.8	4.5		1	95	50-150	06/14/2022 1649
PFBS	ND	4.2	4.4		1	105	50-150	06/14/2022 1649
PFDS	ND	4.6	5.1		1	110	50-150	06/14/2022 1649
PFHpS	ND	4.5	4.5		1	99	50-150	06/14/2022 1649
PFNS	ND	4.6	4.7		1	103	50-150	06/14/2022 1649
PFOSA	ND	4.8	4.6		1	98	50-150	06/14/2022 1649
PFPeS	ND	4.5	4.6		1	103	50-150	06/14/2022 1649
PFHxS	1.3	4.3	4.8		1	81	50-150	06/14/2022 1649
PFBA	ND	4.8	5.3		1	112	50-150	06/14/2022 1649
PFDA	ND	4.8	4.7		1	98	50-150	06/14/2022 1649
PFDoA	ND	4.8	4.5		1	95	50-150	06/14/2022 1649
PFHpA	0.48	4.8	5.1		1	97	50-150	06/14/2022 1649
PFHxA	0.77	4.8	5.1		1	92	50-150	06/14/2022 1649
PFNA	ND	4.8	4.8		1	101	50-150	06/14/2022 1649
PFOA	ND	4.8	5.1		1	106	50-150	06/14/2022 1649
PFPeA	1.2	4.8	5.8		1	97	50-150	06/14/2022 1649
PFTeDA	ND	4.8	4.7		1	99	50-150	06/14/2022 1649
PFTTrDA	ND	4.8	4.7		1	100	50-150	06/14/2022 1649
PFUdA	ND	4.8	4.7		1	98	50-150	06/14/2022 1649
PFOS	2.3	4.4	5.6		1	75	50-150	06/14/2022 1649

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS	N	170	25-150
13C2_6:2FTS	N	181	25-150
13C2_8:2FTS	N	246	25-150
13C2_PFDoA		102	25-150
13C2_PFTeDA		79	25-150
13C3_PFBs		85	25-150
13C3_PFHxS		87	25-150
13C4_PFBA		83	25-150
13C4_PFHpA		85	25-150
13C5_PFHxA		85	25-150
13C5_PFPeA		82	25-150
13C6_PFDA		98	25-150
13C7_PFUdA		100	25-150
13C8_PFOA		81	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: XE24088-010MS

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		85	25-150
13C8_PFOA		84	10-150
13C9_PFOA		90	25-150
d5-EtFOSAA		129	25-150
d-MeFOA		67	10-150
d3-MeFOSAA		137	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: XE24088-010MD

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date	
8:2 FTS	ND	4.3	4.3	1		100	11	50-150	30	06/14/2022 1700	
6:2 FTS	ND	4.3	5.0	1		115	4.0	50-150	30	06/14/2022 1700	
4:2 FTS	ND	4.2	4.2	1		100	11	50-150	30	06/14/2022 1700	
EtFOSAA	ND	4.5	4.7	1		104	0.18	50-150	30	06/14/2022 1700	
MeFOSA	ND	4.5	4.9	1		107	11	50-150	30	06/14/2022 1700	
MeFOSAA	ND	4.5	4.9	1		108	7.8	50-150	30	06/14/2022 1700	
PFBS	ND	4.0	4.6	1		115	5.0	50-150	30	06/14/2022 1700	
PFDS	ND	4.4	4.9	1		112	3.2	50-150	30	06/14/2022 1700	
PFHpS	ND	4.3	4.3	1		99	4.6	50-150	30	06/14/2022 1700	
PFNS	ND	4.3	5.0	1		116	6.7	50-150	30	06/14/2022 1700	
PFOSA	ND	4.5	4.8	1		106	3.9	50-150	30	06/14/2022 1700	
PFPeS	ND	4.3	4.9	1		114	5.7	50-150	30	06/14/2022 1700	
PFHxS	1.3	4.1	5.5	1		101	13	50-150	30	06/14/2022 1700	
PFBA	ND	4.5	5.6	1		123	4.7	50-150	30	06/14/2022 1700	
PFDA	ND	4.5	5.0	1		111	7.6	50-150	30	06/14/2022 1700	
PFDoA	ND	4.5	5.1	1		113	13	50-150	30	06/14/2022 1700	
PFHpA	0.48	4.5	5.0	1		100	1.3	50-150	30	06/14/2022 1700	
PFHxA	0.77	4.5	5.3	1		99	2.6	50-150	30	06/14/2022 1700	
PFNA	ND	4.5	5.1	1		113	6.3	50-150	30	06/14/2022 1700	
PFOA	ND	4.5	6.3	1		139	22	50-150	30	06/14/2022 1700	
PFPeA	1.2	4.5	5.7	1		100	1.0	50-150	30	06/14/2022 1700	
PFTeDA	ND	4.5	5.0	1		111	6.7	50-150	30	06/14/2022 1700	
PFTTrDA	ND	4.5	5.1	1		113	8.0	50-150	30	06/14/2022 1700	
PFUdA	ND	4.5	4.8	1		106	3.1	50-150	30	06/14/2022 1700	
PFOS	2.3	4.2	5.8	1		84	3.8	50-150	30	06/14/2022 1700	
Surrogate	Q	% Rec	Acceptance Limit								
13C2_4:2FTS	N	256	25-150								
13C2_6:2FTS	N	226	25-150								
13C2_8:2FTS	N	355	25-150								
13C2_PFDoA		95	25-150								
13C2_PFTeDA		73	25-150								
13C3_PFBs		84	25-150								
13C3_PFHxS		81	25-150								
13C4_PFBA		81	25-150								
13C4_PFHpA		91	25-150								
13C5_PFHxA		86	25-150								
13C5_PFPeA		84	25-150								
13C6_PFDA		98	25-150								
13C7_PFUdA		95	25-150								
13C8_PFOA		81	25-150								

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: XE24088-010MD

Matrix: Solid

Batch: 43848

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/05/2022 1402

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		84	25-150
13C8_PFOSA		85	10-150
13C9_PFNA		91	25-150
d5-EtFOSAA		126	25-150
d-MeFOSA		73	10-150
d3-MeFOSAA		123	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44737-001

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/15/2022 2251
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/15/2022 2251
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/15/2022 2251
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/15/2022 2251
MeFOSA	ND		1	2.0	0.35	ug/kg	06/15/2022 2251
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/15/2022 2251
PFBS	ND		1	1.0	0.13	ug/kg	06/15/2022 2251
PFDS	ND		1	1.0	0.22	ug/kg	06/15/2022 2251
PFHpS	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFNS	ND		1	1.0	0.22	ug/kg	06/15/2022 2251
PFOSA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFPeS	ND		1	1.0	0.19	ug/kg	06/15/2022 2251
PFHxS	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFBA	ND		1	1.0	0.42	ug/kg	06/15/2022 2251
PFDA	ND		1	1.0	0.16	ug/kg	06/15/2022 2251
PFDaA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFHpA	ND		1	1.0	0.14	ug/kg	06/15/2022 2251
PFHxA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFNA	ND		1	1.0	0.15	ug/kg	06/15/2022 2251
PFOA	ND		1	1.0	0.21	ug/kg	06/15/2022 2251
PFPeA	ND		1	1.0	0.16	ug/kg	06/15/2022 2251
PFTeDA	ND		1	1.0	0.19	ug/kg	06/15/2022 2251
PFTrDA	ND		1	1.0	0.17	ug/kg	06/15/2022 2251
PFUdA	ND		1	1.0	0.18	ug/kg	06/15/2022 2251
PFOS	ND		1	1.0	0.36	ug/kg	06/15/2022 2251

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		101	25-150
13C2_6:2FTS		94	25-150
13C2_8:2FTS		110	25-150
13C2_PFDaA		104	25-150
13C2_PFTeDA		101	25-150
13C3_PFBs		97	25-150
13C3_PFHxS		115	25-150
13C4_PFBa		97	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		103	25-150
13C5_PFPeA		94	25-150
13C6_PFDa		102	25-150
13C7_PFUdA		93	25-150
13C8_PFOA		92	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44737-001

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		106	25-150
13C8_PFOA		97	10-150
13C9_PFOA		97	25-150
d5-EtFOSAA		100	25-150
d-MeFOA		74	10-150
d3-MeFOSAA		102	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44737-002

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.7		1	87	50-150	06/15/2022 2302
6:2 FTS	1.9	1.9		1	103	50-150	06/15/2022 2302
4:2 FTS	1.9	2.1		1	116	50-150	06/15/2022 2302
EtFOSAA	2.0	2.1		1	105	50-150	06/15/2022 2302
MeFOSA	2.0	1.8		1	90	50-150	06/15/2022 2302
MeFOSAA	2.0	2.1		1	103	50-150	06/15/2022 2302
PFBS	1.8	1.8		1	105	50-150	06/15/2022 2302
PFDS	1.9	1.9		1	98	50-150	06/15/2022 2302
PFHpS	1.9	2.0		1	107	50-150	06/15/2022 2302
PFNS	1.9	2.1		1	111	50-150	06/15/2022 2302
PFOSA	2.0	2.0		1	98	50-150	06/15/2022 2302
PFPeS	1.9	1.8		1	94	50-150	06/15/2022 2302
PFHxS	1.8	1.9		1	106	50-150	06/15/2022 2302
PFBA	2.0	2.0		1	100	50-150	06/15/2022 2302
PFDA	2.0	2.0		1	100	50-150	06/15/2022 2302
PFDoA	2.0	2.1		1	107	50-150	06/15/2022 2302
PFHpA	2.0	2.1		1	103	50-150	06/15/2022 2302
PFHxA	2.0	2.0		1	98	50-150	06/15/2022 2302
PFNA	2.0	2.1		1	103	50-150	06/15/2022 2302
PFOA	2.0	2.1		1	104	50-150	06/15/2022 2302
PFPeA	2.0	2.0		1	101	50-150	06/15/2022 2302
PFTeDA	2.0	2.1		1	105	50-150	06/15/2022 2302
PFTTrDA	2.0	1.9		1	97	50-150	06/15/2022 2302
PFUdA	2.0	2.1		1	105	50-150	06/15/2022 2302
PFOS	1.9	1.9		1	104	50-150	06/15/2022 2302

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		114	25-150
13C2_6:2FTS		112	25-150
13C2_8:2FTS		122	25-150
13C2_PFDoA		116	25-150
13C2_PFTeDA		111	25-150
13C3_PFBs		113	25-150
13C3_PFHxS		126	25-150
13C4_PFBA		109	25-150
13C4_PFHpA		116	25-150
13C5_PFHxA		114	25-150
13C5_PFPeA		112	25-150
13C6_PFDA		110	25-150
13C7_PFUdA		108	25-150
13C8_PFOA		114	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44737-002

Matrix: Solid

Batch: 44737

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/13/2022 1754

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		112	25-150
13C8_PFOA		119	10-150
13C9_PFOA		111	25-150
d5-EtFOSAA		114	25-150
d-MeFOA		93	10-150
d3-MeFOSAA		113	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents

PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803 791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134039

Client: **BUES, Inc.**
 Address: **1042 E 6th Ave**
 City: **Andersburg** State: **AK** Zip Code: **99501**
 Project Name: **Homer Airport**
 Project No.: _____

Report to Contact: **Jayne Martin**
 Telephone No. / E-mail: **907-844-1200**
 Sample's Signature: *[Signature]*
 Release Date: _____

Guideline No.: **CO107286**
 Page **13** of **18**

Sample ID / Description (Conditions for each sample may be contained on one line)	F.O. No.	Collection Date/Time (Mony)	Matrix					No. of Containers by Preservative Type					Remarks / Cooler ID.	
			Water	Soil	Sludge	Other	Blank	None	Formal	Other	Other	Other		
SB172-2	5-22-2	1654	X											Hold 3
SB71-4		1040	X											Hold 3
SB184-2		1431	X											Hold 3
SB69-2		1044	X											Hold 3*
SB72-2		1120	X											Hold 3
SB175-2		1600	X											Hold 3
SB37-2		1142	X											Hold 3
SB185-2		1404	X											Hold 3
SB70-2		1106	X											Hold 3

OSM-3 tables

Positive Hazard Identification
 Non-Hazard Flammable Skin Irritant Poison Unknown

GC Requirements (Specify): **Level II**

1. Received by: _____ Date: _____ Time: _____
 2. Received by: _____ Date: _____ Time: _____
 3. Received by: _____ Date: _____ Time: _____
 4. Laboratory receipt by: **K. Reed** Date: **5/24/22** Time: **1535**

LAB USE ONLY
 Received on ice (Circle): Yes (No) Ice Pack
 Recept Temp: **12.3** °C

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINKS-Field/Client Copy
 Document Number: MEM03MS-01



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134043

Client BOIES, Inc	Project to Contact Jayol Meehan	Telephone No. / E-mail 703-694-1266	Quote No. 00107286
Address 1042 E. 6th Ave	Sampler's Signature 	Analysis (Miscel test if more space is needed)	Page 14 of 18
City Anchorage	Printed Name Jayol Meehan		
State AK	Zip Code 99501		
Project Name Home Airport	Printed Name Sam Bundy		
Project No.	P.O. No.		
Sample ID / Description (Conditions for each sample may be combined on one line)	Collection Date (MM/DD)	Air	Water
SB72-1	5-22-22	6	0
SB175-1	1555	0	0
SB177-1	1668	0	0
SB176-1	1541	0	0
SB34-1	1219	0	0
SB37-3	1144	0	0
SB73-1	1123	0	0
SB35-1	1151	0	0
SB38-1	1130	0	0
SB36-1	1204	0	0

Matrix	Air	Water	Soil	Sludge	Other	Air	Water	Soil	Sludge	Other

Sample ID	Collection Date	Matrix	Air	Water	Soil	Sludge	Other	Remarks / Container I.D.
SB72-1	5-22-22	6						3
SB175-1	1555	0						3
SB177-1	1668	0						3
SB176-1	1541	0						3
SB34-1	1219	0						3
SB37-3	1144	0						3
SB73-1	1123	0						3
SB35-1	1151	0						3
SB38-1	1130	0						3
SB36-1	1204	0						3

Turn Around Time Required (Prelab approval required for unqualified IRL)	Sample Disposal	Possible Hazard Identification	GC Requirements (Specify)
<input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)	<input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab	<input type="checkbox"/> Non-hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown	Leads II
1. Requisitioned by	Date/Time 5/23/22 0834	1. Received by	Date/Time
2. Completed by	Date/Time	2. Received by	Date/Time
3. Relinquished by	Date/Time	3. Received by	Date/Time
4. Relinquished by Fedex	Date/Time 5/24/22 1535	4. Laboratory received by Lo Reed	Date/Time 5/24/22 1535

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on ice (Cords) Yes (No) Ice Pack
 Recipient Temp **12.3** °C

Document Number: ME00302-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with samples; PINK-Field/Client Copy



Sample Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGES Inc

Cooler Inspected by/date: KDRW / 05/24/2022

Lot #: XE24088

Means of receipt:		<input type="checkbox"/> Pace	<input type="checkbox"/> Client	<input type="checkbox"/> UPS	<input checked="" type="checkbox"/> FedEx	<input type="checkbox"/> Other:
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?				
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?			
pH Strip ID: NA		Chlorine Strip ID: NA		Tested by: NA		
Original temperature upon receipt / Derived (Corrected) temperature upon receipt		%Solid Snap-Cup ID: 22-480				
12.3 / 12.3 °C		NA / NA °C				
Method: <input checked="" type="checkbox"/> Temperature Blank		<input type="checkbox"/> Against Bottles		IR Gun ID: 6		IR Gun Correction Factor: 0 °C
Method of coolant: <input checked="" type="checkbox"/> Wet Ice		<input type="checkbox"/> Ice Packs		<input type="checkbox"/> Dry Ice		<input type="checkbox"/> None
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: <u>phone</u> / <u>email</u> / <u>face-to-face</u> (circle one).			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5. Were proper custody procedures (relinquished/received) followed?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		6. Were sample IDs listed on the COC?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		7. Were sample IDs listed on all sample containers?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8. Was collection date & time listed on the COC?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9. Was collection date & time listed on all sample containers?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10. Did all container label information (ID, date, time) agree with the COC?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		11. Were tests to be performed listed on the COC?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?			
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		13. Was adequate sample volume available?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		15. Were any samples containers missing/excess (circle one) samples Not listed on COC?			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/4") or 6mm in diameter) in any of the VOA vials?			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?			
<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?			
<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		21. Was the quote number listed on the container label? If yes, Quote #			
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)						
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA						
Time of preservation NA. If more than one preservative is needed, please note in the comments below.						
Sample(s) NA were received with bubbles >6 mm in diameter.						
Samples(s) NA were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: NA						
SR barcode labels applied by: KDRW Date: 05/24/2022						

Comments: Ice Melted



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1868854
Lot Number: **XE24087**
Date Completed: 06/21/2022

07/05/2022 12:45 PM
Approved and released by:
Project Manager II: **Edward Barnett**



The electronic signature above is the equivalent of a handwritten signature.
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE24087

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE24087
Project Name: Homer Airport
Project Number: WG1868854

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB90-2	Solid	05/21/2022 1530	05/24/2022
002	SB113-2	Solid	05/21/2022 1406	05/24/2022
003	SB107-2	Solid	05/21/2022 1011	05/24/2022
004	SB101-2	Solid	05/21/2022 1510	05/24/2022
005	SB110-2	Solid	05/21/2022 1324	05/24/2022
006	SB114-2	Solid	05/21/2022 1137	05/24/2022
007	SB111-2	Solid	05/21/2022 1356	05/24/2022
008	SB117-2	Solid	05/21/2022 1255	05/24/2022
009	SB83-2	Solid	05/21/2022 1719	05/24/2022
010	SB92-2	Solid	05/21/2022 1607	05/24/2022
011	SB105-2	Solid	05/21/2022 1043	05/24/2022
012	SB102-2	Solid	05/21/2022 1422	05/24/2022
013	SB100-2	Solid	05/21/2022 1453	05/24/2022
014	SB89-2	Solid	05/21/2022 1554	05/24/2022
015	SB108-2	Solid	05/21/2022 1000	05/24/2022
016	SB118-2	Solid	05/21/2022 1153	05/24/2022
017	SB106-2	Solid	05/21/2022 1055	05/24/2022
018	SB81-2	Solid	05/21/2022 1659	05/24/2022
019	SB91-2	Solid	05/21/2022 1541	05/24/2022
020	SB79-2	Solid	05/21/2022 1640	05/24/2022

(20 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Pace Analytical LLC
Lot Number: XE24087
Project Name: Homer Airport
Project Number: WG1868854

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
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(0 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24087-005
Description: SB110-2	Matrix: Solid
Date Sampled: 05/21/2022 1324	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 83.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/17/2022 1800	MMM	06/15/2022 1452	44959

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.4	0.33	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.4	0.37	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.4	0.26	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.4	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.4	0.48	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.50	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.2	0.43	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		95	25-150
13C2_6:2FTS		110	25-150
13C2_8:2FTS		106	25-150
13C2_PFDaA		99	25-150
13C2_PFTeDA		108	25-150
13C3_PFBS		92	25-150
13C3_PFHxS		97	25-150
13C4_PFBA		94	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		90	25-150
13C5_PFPeA		88	25-150
13C6_PFDA		99	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		95	25-150
13C8_PFOS		100	25-150
13C8_PFOSA		105	10-150
13C9_PFNA		94	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24087-005
Description: SB110-2	Matrix: Solid
Date Sampled: 05/21/2022 1324	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 83.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		104	25-150
d-MeFOSA		94	10-150
d3-MeFOSAA		108	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24087-015
Description: SB108-2	Matrix: Solid
Date Sampled: 05/21/2022 1000	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 86.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/17/2022 1811	MMM	06/15/2022 1452	44959

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.2	0.30	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.2	0.34	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.44	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.46	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.1	0.39	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		98	25-150
13C2_6:2FTS		110	25-150
13C2_8:2FTS		104	25-150
13C2_PFDaA		97	25-150
13C2_PFTeDA		109	25-150
13C3_PFBs		100	25-150
13C3_PFHxS		96	25-150
13C4_PFBa		96	25-150
13C4_PFHpA		108	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		89	25-150
13C6_PFDa		100	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		92	25-150
13C8_PFOs		104	25-150
13C8_PFOsA		103	10-150
13C9_PFNa		97	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24087-015
Description: SB108-2	Matrix: Solid
Date Sampled: 05/21/2022 1000	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 86.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		104	25-150
d-MeFOSA		96	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ44959-001

Matrix: Solid

Batch: 44959

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/15/2022 1452

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/17/2022 1542
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/17/2022 1542
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/17/2022 1542
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/17/2022 1542
MeFOSA	ND		1	2.0	0.35	ug/kg	06/17/2022 1542
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/17/2022 1542
PFBS	ND		1	1.0	0.13	ug/kg	06/17/2022 1542
PFDS	ND		1	1.0	0.22	ug/kg	06/17/2022 1542
PFHpS	ND		1	1.0	0.18	ug/kg	06/17/2022 1542
PFNS	ND		1	1.0	0.22	ug/kg	06/17/2022 1542
PFOSA	ND		1	1.0	0.18	ug/kg	06/17/2022 1542
PFPeS	ND		1	1.0	0.19	ug/kg	06/17/2022 1542
PFHxS	ND		1	1.0	0.18	ug/kg	06/17/2022 1542
PFBA	ND		1	1.0	0.42	ug/kg	06/17/2022 1542
PFDA	ND		1	1.0	0.16	ug/kg	06/17/2022 1542
PFDoA	ND		1	1.0	0.18	ug/kg	06/17/2022 1542
PFHpA	ND		1	1.0	0.14	ug/kg	06/17/2022 1542
PFHxA	ND		1	1.0	0.18	ug/kg	06/17/2022 1542
PFNA	ND		1	1.0	0.15	ug/kg	06/17/2022 1542
PFOA	ND		1	1.0	0.21	ug/kg	06/17/2022 1542
PFPeA	ND		1	1.0	0.16	ug/kg	06/17/2022 1542
PFTeDA	ND		1	1.0	0.19	ug/kg	06/17/2022 1542
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/17/2022 1542
PFUdA	ND		1	1.0	0.18	ug/kg	06/17/2022 1542
PFOS	ND		1	1.0	0.36	ug/kg	06/17/2022 1542

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		90	25-150
13C2_6:2FTS		121	25-150
13C2_8:2FTS		111	25-150
13C2_PFDoA		100	25-150
13C2_PFTeDA		111	25-150
13C3_PFBs		98	25-150
13C3_PFHxS		92	25-150
13C4_PFBA		100	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		93	25-150
13C6_PFDA		101	25-150
13C7_PFUdA		99	25-150
13C8_PFOA		98	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44959-001

Matrix: Solid

Batch: 44959

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/15/2022 1452

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		112	25-150
13C8_PFOA		101	10-150
13C9_PFOA		94	25-150
d5-EtFOSAA		103	25-150
d-MeFOA		87	10-150
d3-MeFOSAA		105	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44959-002

Matrix: Solid

Batch: 44959

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/15/2022 1452

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	2.0	1		104	50-150	06/17/2022 1553
6:2 FTS	1.9	1.9	1		100	50-150	06/17/2022 1553
4:2 FTS	1.9	1.9	1		102	50-150	06/17/2022 1553
EtFOSAA	2.0	1.8	1		92	50-150	06/17/2022 1553
MeFOSA	2.0	1.8	1		92	50-150	06/17/2022 1553
MeFOSAA	2.0	1.8	1		91	50-150	06/17/2022 1553
PFBS	1.8	1.8	1		103	50-150	06/17/2022 1553
PFDS	1.9	1.7	1		87	50-150	06/17/2022 1553
PFHpS	1.9	2.0	1		106	50-150	06/17/2022 1553
PFNS	1.9	1.7	1		86	50-150	06/17/2022 1553
PFOSA	2.0	2.0	1		98	50-150	06/17/2022 1553
PFPeS	1.9	1.9	1		99	50-150	06/17/2022 1553
PFHxS	1.8	1.9	1		107	50-150	06/17/2022 1553
PFBA	2.0	2.0	1		100	50-150	06/17/2022 1553
PFDA	2.0	1.9	1		93	50-150	06/17/2022 1553
PFDaA	2.0	2.0	1		102	50-150	06/17/2022 1553
PFHpA	2.0	1.9	1		95	50-150	06/17/2022 1553
PFHxA	2.0	1.9	1		95	50-150	06/17/2022 1553
PFNA	2.0	1.9	1		95	50-150	06/17/2022 1553
PFOA	2.0	2.0	1		100	50-150	06/17/2022 1553
PFPeA	2.0	2.0	1		102	50-150	06/17/2022 1553
PFTeDA	2.0	2.1	1		103	50-150	06/17/2022 1553
PFTTrDA	2.0	1.9	1		95	50-150	06/17/2022 1553
PFUdA	2.0	2.0	1		102	50-150	06/17/2022 1553
PFOS	1.9	1.7	1		93	50-150	06/17/2022 1553

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		98	25-150
13C2_6:2FTS		108	25-150
13C2_8:2FTS		102	25-150
13C2_PFDaA		97	25-150
13C2_PFTeDA		100	25-150
13C3_PFBs		94	25-150
13C3_PFHxS		83	25-150
13C4_PFBa		95	25-150
13C4_PFHpA		107	25-150
13C5_PFHxA		100	25-150
13C5_PFPeA		91	25-150
13C6_PFDa		99	25-150
13C7_PFUdA		97	25-150
13C8_PFOA		100	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44959-002

Matrix: Solid

Batch: 44959

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/15/2022 1452

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		105	25-150
13C8_PFOA		102	10-150
13C9_PFOA		97	25-150
d5-EtFOSAA		100	25-150
d-MeFOA		81	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
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Number 134035

Client: BOES, Inc		Telephone No. / E-mail: 907-644-1400		Quantity: 00107286	
Address: 1042 E 6th Ave		Analyst: JAYNE MURKIN		Page: 11 of 68	
City: Anchorage AK 99501		Signature: <i>Jayne Murkin</i>		Barcode: XE224087	
Project Name: Homer Airport		Printed Name: Sam		ETB2	
Project No.		R.O. No.		Fishmarks / Cooler ID.	
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date (YYYYMMDD)	Collection Time (HH:MM)	Matrix	No. of Containers by Preservation Type	Remarks
SB910-2	5-21-22	1530	X	1	Hold 2
SB113-2		1406	X	1	Hold 2
SB107-2		1011	X	1	Hold 2
SB101-2		1510	X	1	Hold 2
SB110-2		1324	X	1	Hold 2
SB114-2		1137	X	1	Hold 2
SB111-2		1356	X	1	Hold 2
SB117-2		1255	X	1	Hold 2
SB83-2		1719	X	1	Hold 2
SB92-2		1607	X	1	Hold 2

Report to Contact: **Jayne Murkin**
 Sample Disposition: Return to Client Destroyed by Lab

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

CC Requirements (Specify): **Level II**

1. Refrigerated by: *[Signature]* Date: **5/23/22** Time: **0826**

2. Received by: _____ Date: _____ Time: _____

3. Received by: _____ Date: _____ Time: _____

4. Refrigerated by: **Paul Eng** Date: **5/24/22** Time: **1535**

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY
 Received on (in Code): **8.0** °C No. **0** Ice Pack **0** Recipient Temp. **8.0** °C

Document Number: MFC0302-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy



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Number 134037

Client BBES, Inc. 1042 E. 6th Ave Anchorage, AK 99501 Project Name: Home Airport Project No.		Report to Contact Jayne McGee Jayne@BBES Inc.com Telephone No. / E-mail: 907-644-2866 Analysis (Attach list if more spaces is needed)		Quote No. 06107280 Page 12 of 18 XE24087 ETB2	
Sampler's Signature [Signature] Printed Name: Sam Budy		Matrix No. of Containers by Preservative Type Matrix: 1043, 1422, 1453, 1554, 1000, 463, 1055, 1659, 1541, 1640		GC Requirements (Specify) Lead: PF	
Sample ID / Description (Containers for each sample may be combined on one line.) SB105-2, SB102-2, SB100-2, SB39-2, SB108-2, SB48-2, SB106-2, SB81-2, SB91-2, SB79-2		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown		1. Returned by Date: 5/23/2008 Time: 1535	
Turn Around Time Required (Prior lab approval required for expedited TAT.) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		2. Received by Date:		3. Received by Date:	
1. Refiniquished by [Signature]		4. Laboratory received by [Signature]		LAB USE ONLY Received on site (Circle): <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Receipt Date: 5/23/08 Receipt Time: 1535 Temp Blank: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

Distribution: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: M50026-01



Samples Receipt Checklist (SRC) (ME0018C-15)
 Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020
 Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BOES Inc Cooler Inspected by/date: KDRW / 05/24/2022 Lot #: XE24087

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>22-480</u> <u>8.0 / 8.0</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C <u>NA / NA</u> °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone <u>(email)</u> face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # _____
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>KDRW</u> Date: <u>05/24/2022</u>	

Comments: Ice Melted



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1868854
Lot Number: **XE24085**
Date Completed: 06/17/2022

07/05/2022 12:45 PM
Approved and released by:
Project Manager II: **Edward Barnett**



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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE24085

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE24085-011, XE24085-012, XE24085-013, XE24085-014, XE24085-016, XE24085-017, XE24085-018, XE24085-019, XE24085-020. The samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following samples was outside the upper control limit: XE24085-001, XE24085-002, XE24085-003, XE24085-004, XE24085-005, XE24085-006, XE24085-007, XE24085-010. The samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following samples was outside the upper control limit: XE24085-013, XE24085-014. The samples were re-extracted due to high surrogate recoveries and a detected concentration in the samples, however, the Method Blank associated with the re-extracted samples contained the analyte 6:2 FTS at a concentration above the PQL, but samples were ND. Run 2 of these samples will be reported for the analytes associated with the 6:2 FTS surrogate.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE24085
Project Name: Homer Airport
Project Number: WG1868854

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB83-1	Solid	05/21/2022 1714	05/24/2022
002	SB92-1	Solid	05/21/2022 1602	05/24/2022
003	SB113-1	Solid	05/21/2022 1401	05/24/2022
004	SB89-1	Solid	05/21/2022 1548	05/24/2022
005	SB91-1	Solid	05/21/2022 1536	05/24/2022
006	SB114-3	Solid	05/21/2022 1140	05/24/2022
007	SB117-1	Solid	05/21/2022 1246	05/24/2022
008	SB115-1	Solid	05/21/2022 1228	05/24/2022
009	SB107-1	Solid	05/21/2022 1006	05/24/2022
010	SB114-1	Solid	05/21/2022 1131	05/24/2022
011	SB118-1	Solid	05/21/2022 1148	05/24/2022
012	SB105-1	Solid	05/21/2022 1038	05/24/2022
013	SB104-1	Solid	05/21/2022 1021	05/24/2022
014	SB99-1	Solid	05/21/2022 1434	05/24/2022
015	SB102-1	Solid	05/21/2022 1416	05/24/2022
016	SB79-1	Solid	05/21/2022 1635	05/24/2022
017	SB100-1	Solid	05/21/2022 1448	05/24/2022
018	SB111-1	Solid	05/21/2022 1301	05/24/2022
019	SB101-1	Solid	05/21/2022 1505	05/24/2022
020	SB106-1	Solid	05/21/2022 1050	05/24/2022

(20 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Pace Analytical LLC
Lot Number: XE24085
Project Name: Homer Airport
Project Number: WG1868854

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB83-1	Solid	6:2 FTS	PFAS by ID	3.4	JQ	ug/kg	6
001	SB83-1	Solid	PFBS	PFAS by ID	0.60	J	ug/kg	6
001	SB83-1	Solid	PFPeS	PFAS by ID	1.0	J	ug/kg	6
001	SB83-1	Solid	PFHxS	PFAS by ID	8.4		ug/kg	6
001	SB83-1	Solid	PFBA	PFAS by ID	2.5	J	ug/kg	6
001	SB83-1	Solid	PFHpA	PFAS by ID	1.9	J	ug/kg	6
001	SB83-1	Solid	PFHxA	PFAS by ID	2.7	J	ug/kg	6
001	SB83-1	Solid	PFNA	PFAS by ID	1.3	J	ug/kg	6
001	SB83-1	Solid	PFOA	PFAS by ID	2.2	J	ug/kg	6
001	SB83-1	Solid	PFPeA	PFAS by ID	4.4	J	ug/kg	6
001	SB83-1	Solid	PFOS	PFAS by ID	66		ug/kg	6
007	SB117-1	Solid	PFOS	PFAS by ID	1.0	J	ug/kg	18
008	SB115-1	Solid	PFOS	PFAS by ID	0.49	J	ug/kg	20
016	SB79-1	Solid	PFOS	PFAS by ID	0.99	J	ug/kg	36
020	SB106-1	Solid	PFHxS	PFAS by ID	0.22	J	ug/kg	44

(15 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-001
Description: SB83-1	Matrix: Solid
Date Sampled: 05/21/2022 1714	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 20.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2135	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	9.1	1.3	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	3.4	JQ	9.1	1.4	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	9.1	0.99	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		9.1	1.3	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		9.1	1.6	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		9.1	1.8	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.60	J	4.6	0.60	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		4.6	1.0	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		4.6	0.80	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		4.6	1.0	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		4.6	0.81	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	1.0	J	4.6	0.85	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	8.4		4.6	0.81	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	2.5	J	4.6	1.9	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		4.6	0.72	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		4.6	0.80	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	1.9	J	4.6	0.65	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	2.7	J	4.6	0.85	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	1.3	J	4.6	0.68	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	2.2	J	4.6	0.97	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	4.4	J	4.6	0.73	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		4.6	0.87	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		4.6	0.79	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		4.6	0.85	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	66		4.6	1.6	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	234	25-150
13C2_6:2FTS	N	273	25-150
13C2_8:2FTS	N	328	25-150
13C2_PFDa		91	25-150
13C2_PFTeDA		67	25-150
13C3_PFBs		88	25-150
13C3_PFHxS		89	25-150
13C4_PFBa		76	25-150
13C4_PFHpA		94	25-150
13C5_PFHxA		86	25-150
13C5_PFPeA		84	25-150
13C6_PFDa		94	25-150
13C7_PFUdA		99	25-150
13C8_PFOA		96	25-150
13C8_PFOs		92	25-150
13C8_PFOsA		79	10-150
13C9_PFNa		96	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-001
Description: SB83-1	Matrix: Solid
Date Sampled: 05/21/2022 1714	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 20.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		105	25-150
d-MeFOSA		68	10-150
d3-MeFOSAA		107	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-002
Description: SB92-1	Matrix: Solid
Date Sampled: 05/21/2022 1602	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 25.2 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2146	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	6.9	0.95	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	6.9	1.1	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	6.9	0.75	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		6.9	1.0	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		6.9	1.2	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		6.9	1.4	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.5	0.45	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.5	0.77	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.5	0.61	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.5	0.76	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.5	0.61	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.5	0.64	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.5	0.61	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.5	1.4	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.5	0.55	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.5	0.61	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.5	0.49	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.5	0.64	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.5	0.52	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.5	0.73	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.5	0.55	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.5	0.65	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.5	0.59	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.5	0.64	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.5	1.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	231	25-150
13C2_6:2FTS	N	254	25-150
13C2_8:2FTS	N	292	25-150
13C2_PFDaA		112	25-150
13C2_PFTeDA		80	25-150
13C3_PFBs		94	25-150
13C3_PFHxS		99	25-150
13C4_PFBa		92	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		98	25-150
13C5_PFPeA		96	25-150
13C6_PFDa		106	25-150
13C7_PFUdA		114	25-150
13C8_PFOA		102	25-150
13C8_PFOs		104	25-150
13C8_PFOsA		87	10-150
13C9_PFNa		112	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-002
Description: SB92-1	Matrix: Solid
Date Sampled: 05/21/2022 1602	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 25.2 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		127	25-150
d-MeFOSA		75	10-150
d3-MeFOSAA		128	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-003
Description: SB113-1	Matrix: Solid
Date Sampled: 05/21/2022 1401	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 47.6 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2157	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.8	0.51	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.8	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.8	0.41	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.8	0.54	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.8	0.65	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.8	0.74	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.9	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.9	0.42	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.9	0.41	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.9	0.78	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.9	0.27	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.9	0.28	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.9	0.40	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.9	0.67	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	244	25-150
13C2_6:2FTS	N	250	25-150
13C2_8:2FTS	N	335	25-150
13C2_PFDaA		117	25-150
13C2_PFTeDA		89	25-150
13C3_PFBs		87	25-150
13C3_PFHxS		92	25-150
13C4_PFBa		90	25-150
13C4_PFHpA		97	25-150
13C5_PFHxA		93	25-150
13C5_PFPeA		95	25-150
13C6_PFDa		108	25-150
13C7_PFUdA		118	25-150
13C8_PFOA		97	25-150
13C8_PFOs		97	25-150
13C8_PFOsA		94	10-150
13C9_PFNa		107	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-003
Description: SB113-1	Matrix: Solid
Date Sampled: 05/21/2022 1401	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 47.6 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		137	25-150
d-MeFOSA		75	10-150
d3-MeFOSAA		132	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-004
Description: SB89-1	Matrix: Solid
Date Sampled: 05/21/2022 1548	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 24.1 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2208	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	7.6	1.0	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	7.6	1.2	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	7.6	0.82	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.6	1.1	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		7.6	1.3	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.6	1.5	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.8	0.49	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.8	0.84	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.8	0.66	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.8	0.83	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.8	0.67	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.8	0.70	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.8	0.67	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.8	1.6	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.8	0.60	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDaA)	307-55-1	PFAS by ID SOP	ND		3.8	0.66	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.8	0.54	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.8	0.70	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.8	0.56	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.8	0.80	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.8	0.60	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.8	0.71	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.8	0.65	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.8	0.70	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.8	1.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	198	25-150
13C2_6:2FTS	N	220	25-150
13C2_8:2FTS	N	273	25-150
13C2_PFDaA		99	25-150
13C2_PFTeDA		74	25-150
13C3_PFBS		81	25-150
13C3_PFHxS		86	25-150
13C4_PFBA		77	25-150
13C4_PFHpA		89	25-150
13C5_PFHxA		85	25-150
13C5_PFPeA		81	25-150
13C6_PFDA		98	25-150
13C7_PFUdA		102	25-150
13C8_PFOA		87	25-150
13C8_PFOS		87	25-150
13C8_PFOSA		82	10-150
13C9_PFNA		92	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-004
Description: SB89-1	Matrix: Solid
Date Sampled: 05/21/2022 1548	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 24.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		117	25-150
d-MeFOSA		69	10-150
d3-MeFOSAA		118	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-005
Description: SB91-1	Matrix: Solid
Date Sampled: 05/21/2022 1536	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 49.2 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2219	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.7	0.51	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.7	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.7	0.40	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.7	0.53	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.7	0.64	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.7	0.73	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.8	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.8	0.41	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.8	0.41	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.8	0.77	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.8	0.29	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.8	0.26	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.8	0.28	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.8	0.39	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.8	0.29	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.8	0.35	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.8	0.66	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	253	25-150
13C2_6:2FTS	N	269	25-150
13C2_8:2FTS	N	370	25-150
13C2_PFDaA		120	25-150
13C2_PFTeDA		86	25-150
13C3_PFBs		99	25-150
13C3_PFHxS		103	25-150
13C4_PFBa		90	25-150
13C4_PFHpA		105	25-150
13C5_PFHxA		96	25-150
13C5_PFPeA		98	25-150
13C6_PFDa		118	25-150
13C7_PFUdA		119	25-150
13C8_PFOA		106	25-150
13C8_PFOs		103	25-150
13C8_PFOsA		100	10-150
13C9_PFNa		112	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-005
Description: SB91-1	Matrix: Solid
Date Sampled: 05/21/2022 1536	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 49.2 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		141	25-150
d-MeFOSA		79	10-150
d3-MeFOSAA		138	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-006
Description: SB114-3	Matrix: Solid
Date Sampled: 05/21/2022 1140	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 77.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2230	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.4	0.34	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.4	0.37	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.4	0.27	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.4	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.4	0.48	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.51	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.2	0.44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	178	25-150
13C2_6:2FTS	N	166	25-150
13C2_8:2FTS	N	249	25-150
13C2_PFDaA		129	25-150
13C2_PFTeDA		104	25-150
13C3_PFBs		108	25-150
13C3_PFHxS		113	25-150
13C4_PFBa		111	25-150
13C4_PFHpA		114	25-150
13C5_PFHxA		105	25-150
13C5_PFPeA		108	25-150
13C6_PFDa		122	25-150
13C7_PFUdA		133	25-150
13C8_PFOA		108	25-150
13C8_PFOs		110	25-150
13C8_PFOsA		115	10-150
13C9_PFNa		123	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-006
Description: SB114-3	Matrix: Solid
Date Sampled: 05/21/2022 1140	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 77.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	160	25-150
d-MeFOSA		92	10-150
d3-MeFOSAA		148	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-007
Description: SB117-1	Matrix: Solid
Date Sampled: 05/21/2022 1246	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 85.5 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2241	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.3	0.32	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.3	0.35	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.3	0.25	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.3	0.33	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.3	0.40	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.3	0.46	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.48	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.25	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.0	J	1.2	0.41	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		135	25-150
13C2_6:2FTS		141	25-150
13C2_8:2FTS	N	177	25-150
13C2_PFDaA		127	25-150
13C2_PFTeDA		102	25-150
13C3_PFBs		104	25-150
13C3_PFHxS		109	25-150
13C4_PFBa		106	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		100	25-150
13C5_PFPeA		104	25-150
13C6_PFDa		113	25-150
13C7_PFUdA		125	25-150
13C8_PFOA		104	25-150
13C8_PFOs		111	25-150
13C8_PFOsA		106	10-150
13C9_PFNa		117	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-007
Description: SB117-1	Matrix: Solid
Date Sampled: 05/21/2022 1246	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 85.5 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		146	25-150
d-MeFOSA		99	10-150
d3-MeFOSAA		130	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-008
Description: SB115-1	Matrix: Solid
Date Sampled: 05/21/2022 1228	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 88.5 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2252	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.2	0.30	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.2	0.33	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.23	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.31	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.37	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.43	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.45	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	0.49	J	1.1	0.38	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		99	25-150
13C2_6:2FTS		112	25-150
13C2_8:2FTS		118	25-150
13C2_PFDaA		119	25-150
13C2_PFTeDA		109	25-150
13C3_PFBs		108	25-150
13C3_PFHxS		102	25-150
13C4_PFBa		99	25-150
13C4_PFHpA		100	25-150
13C5_PFHxA		95	25-150
13C5_PFPeA		102	25-150
13C6_PFDa		106	25-150
13C7_PFUdA		118	25-150
13C8_PFOA		104	25-150
13C8_PFOs		107	25-150
13C8_PFOsA		97	10-150
13C9_PFNa		116	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-008
Description: SB115-1	Matrix: Solid
Date Sampled: 05/21/2022 1228	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 88.5 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		116	25-150
d-MeFOSA		94	10-150
d3-MeFOSAA		107	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-009
Description: SB107-1	Matrix: Solid
Date Sampled: 05/21/2022 1006	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 90.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2303	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.0	0.28	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.31	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.22	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.0	0.29	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.40	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.0	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.0	0.42	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.0	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.0	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.0	0.36	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		95	25-150
13C2_6:2FTS		107	25-150
13C2_8:2FTS		105	25-150
13C2_PFDaA		110	25-150
13C2_PFTeDA		103	25-150
13C3_PFBs		99	25-150
13C3_PFHxS		104	25-150
13C4_PFBa		101	25-150
13C4_PFHpA		101	25-150
13C5_PFHxA		96	25-150
13C5_PFPeA		103	25-150
13C6_PFDa		105	25-150
13C7_PFUdA		109	25-150
13C8_PFOA		102	25-150
13C8_PFOs		105	25-150
13C8_PFOsA		104	10-150
13C9_PFNa		109	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-009
Description: SB107-1	Matrix: Solid
Date Sampled: 05/21/2022 1006	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 90.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		106	25-150
d-MeFOSA		93	10-150
d3-MeFOSAA		103	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-010
Description: SB114-1	Matrix: Solid
Date Sampled: 05/21/2022 1131	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 83.9 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/08/2022 2314	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.2	0.30	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.2	0.34	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.44	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.46	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.1	0.39	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	179	25-150
13C2_6:2FTS	N	166	25-150
13C2_8:2FTS	N	227	25-150
13C2_PFDaA		130	25-150
13C2_PFTeDA		105	25-150
13C3_PFBs		107	25-150
13C3_PFHxS		107	25-150
13C4_PFBa		108	25-150
13C4_PFHpA		105	25-150
13C5_PFHxA		107	25-150
13C5_PFPeA		108	25-150
13C6_PFDa		120	25-150
13C7_PFUdA		130	25-150
13C8_PFOA		103	25-150
13C8_PFOs		107	25-150
13C8_PFOsA		114	10-150
13C9_PFNa		117	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-010
Description: SB114-1	Matrix: Solid
Date Sampled: 05/21/2022 1131	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 83.9 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	152	25-150
d-MeFOSA		88	10-150
d3-MeFOSAA		140	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-011
Description: SB118-1	Matrix: Solid
Date Sampled: 05/21/2022 1148	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 55.5 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0009	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.5	0.48	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.5	0.54	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.5	0.38	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.5	0.51	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.5	0.61	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.5	0.70	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.8	0.23	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.8	0.39	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.8	0.39	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.8	0.73	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.8	0.28	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDaA)	307-55-1	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.8	0.25	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.8	0.26	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.8	0.38	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.8	0.28	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.8	0.30	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.8	0.63	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	264	25-150
13C2_6:2FTS	N	225	25-150
13C2_8:2FTS	N	282	25-150
13C2_PFDaA		80	25-150
13C2_PFTeDA		65	25-150
13C3_PFBs		80	25-150
13C3_PFHxS		88	25-150
13C4_PFBa		79	25-150
13C4_PFHpA		90	25-150
13C5_PFHxA		87	25-150
13C5_PFPeA		84	25-150
13C6_PFDa		91	25-150
13C7_PFUdA		91	25-150
13C8_PFOA		87	25-150
13C8_PFOs		81	25-150
13C8_PFOsA		77	10-150
13C9_PFNa		87	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-011
Description: SB118-1	Matrix: Solid
Date Sampled: 05/21/2022 1148	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 55.5 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		102	25-150
d-MeFOSA		61	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-012
Description: SB105-1	Matrix: Solid
Date Sampled: 05/21/2022 1038	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 46.8 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0020	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.7	0.51	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.7	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.7	0.41	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.7	0.54	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.7	0.65	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.7	0.74	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.9	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.9	0.42	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.9	0.41	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.9	0.78	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.9	0.27	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.9	0.28	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.9	0.40	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.9	0.67	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	369	25-150
13C2_6:2FTS	N	335	25-150
13C2_8:2FTS	N	417	25-150
13C2_PFDaA		110	25-150
13C2_PFTeDA		85	25-150
13C3_PFBs		106	25-150
13C3_PFHxS		111	25-150
13C4_PFBa		108	25-150
13C4_PFHpA		118	25-150
13C5_PFHxA		116	25-150
13C5_PFPeA		113	25-150
13C6_PFDa		119	25-150
13C7_PFUdA		120	25-150
13C8_PFOA		116	25-150
13C8_PFOs		106	25-150
13C8_PFOsA		97	10-150
13C9_PFNa		114	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-012
Description: SB105-1	Matrix: Solid
Date Sampled: 05/21/2022 1038	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 46.8 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		131	25-150
d-MeFOSA		81	10-150
d3-MeFOSAA		134	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-013
Description: SB104-1	Matrix: Solid
Date Sampled: 05/21/2022 1021	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 28.4 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0031	ASD	05/26/2022 1451	43091
2	SOP SPE	PFAS by ID SOP	1	06/15/2022 0029	ASD	06/10/2022 1306	44515

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	6.6	0.90	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	6.5	0.99	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	6.6	0.71	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		6.6	0.95	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		6.6	1.1	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		6.6	1.3	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.3	0.43	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.3	0.73	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.3	0.58	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.3	0.72	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOA)	754-91-6	PFAS by ID SOP	ND		3.3	0.58	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.3	0.61	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.3	0.58	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.3	1.4	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.3	0.52	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.3	0.58	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.3	0.47	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.3	0.61	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.3	0.49	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.3	0.70	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.3	0.52	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.3	0.62	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.3	0.57	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.3	0.61	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.3	1.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	288	25-150	N	229	25-150
13C2_6:2FTS	N	289	25-150	N	237	25-150
13C2_8:2FTS	N	305	25-150	N	269	25-150
13C2_PFDa		86	25-150		86	25-150
13C2_PFTeDA		72	25-150		58	25-150
13C3_PFBs		87	25-150		77	25-150
13C3_PFHxS		97	25-150		77	25-150
13C4_PFBa		86	25-150		72	25-150
13C4_PFHpA		100	25-150		83	25-150
13C5_PFHxA		95	25-150		80	25-150
13C5_PFPeA		89	25-150		78	25-150
13C6_PFDa		95	25-150		86	25-150
13C7_PFUdA		97	25-150		90	25-150
13C8_PFOA		99	25-150		78	25-150
13C8_PFOs		83	25-150		78	25-150
13C8_PFOsA		77	10-150		71	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-013
Description: SB104-1	Matrix: Solid
Date Sampled: 05/21/2022 1021	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 28.4 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		87	25-150		80	25-150
d5-EtFOSAA		103	25-150		106	25-150
d-MeFOSA		65	10-150		57	10-150
d3-MeFOSAA		103	25-150		95	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-014
Description: SB99-1	Matrix: Solid
Date Sampled: 05/21/2022 1434	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 48.7 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0042	ASD	05/26/2022 1451	43091
2	SOP SPE	PFAS by ID SOP	1	06/15/2022 0040	ASD	06/10/2022 1306	44515

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.7	0.51	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.7	0.57	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.7	0.40	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.7	0.54	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.7	0.65	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.7	0.74	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.9	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.9	0.42	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.9	0.41	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.9	0.78	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.9	0.29	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.9	0.27	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.9	0.28	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.9	0.40	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.9	0.34	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.9	0.67	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	306	25-150	N	233	25-150
13C2_6:2FTS	N	257	25-150	N	254	25-150
13C2_8:2FTS	N	358	25-150	N	315	25-150
13C2_PFDa		96	25-150		109	25-150
13C2_PFTeDA		75	25-150		76	25-150
13C3_PFBs		90	25-150		83	25-150
13C3_PFHxS		97	25-150		82	25-150
13C4_PFBa		86	25-150		88	25-150
13C4_PFHpA		100	25-150		90	25-150
13C5_PFHxA		100	25-150		91	25-150
13C5_PFPeA		91	25-150		87	25-150
13C6_PFDa		102	25-150		102	25-150
13C7_PFUdA		107	25-150		110	25-150
13C8_PFOA		103	25-150		87	25-150
13C8_PFOs		89	25-150		86	25-150
13C8_PFOsA		89	10-150		88	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-014
Description: SB99-1	Matrix: Solid
Date Sampled: 05/21/2022 1434	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 48.7 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		99	25-150		91	25-150
d5-EtFOSAA		121	25-150		140	25-150
d-MeFOSA		70	10-150		66	10-150
d3-MeFOSAA		116	25-150		134	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-015
Description: SB102-1	Matrix: Solid
Date Sampled: 05/21/2022 1416	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 82.9 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0053	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.0	0.28	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.31	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.22	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.0	0.30	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.40	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.0	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.0	0.43	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.0	0.36	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		101	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		146	25-150
13C2_PFDaA		102	25-150
13C2_PFTeDA		88	25-150
13C3_PFBS		84	25-150
13C3_PFHxS		91	25-150
13C4_PFBA		85	25-150
13C4_PFHpA		88	25-150
13C5_PFHxA		88	25-150
13C5_PFPeA		86	25-150
13C6_PFDA		96	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		89	25-150
13C8_PFOS		85	25-150
13C8_PFOSA		86	10-150
13C9_PFNA		88	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-015
Description: SB102-1	Matrix: Solid
Date Sampled: 05/21/2022 1416	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 82.9 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		116	25-150
d-MeFOSA		72	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-016
Description: SB79-1	Matrix: Solid
Date Sampled: 05/21/2022 1635	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 41.3 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0104	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.6	0.63	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	4.6	0.70	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.6	0.50	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.6	0.66	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.6	0.79	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.6	0.90	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.3	0.30	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.3	0.51	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.3	0.40	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.3	0.50	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.3	0.40	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.3	0.42	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.3	0.40	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.3	0.95	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.3	0.36	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.3	0.40	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.3	0.33	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.3	0.42	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.3	0.34	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.3	0.49	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.3	0.36	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.3	0.43	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.3	0.39	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.3	0.42	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	0.99	J	2.3	0.81	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	304	25-150
13C2_6:2FTS	N	290	25-150
13C2_8:2FTS	N	341	25-150
13C2_PFDaA		87	25-150
13C2_PFTeDA		69	25-150
13C3_PFBs		90	25-150
13C3_PFHxS		96	25-150
13C4_PFBa		85	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		100	25-150
13C5_PFPeA		92	25-150
13C6_PFDa		103	25-150
13C7_PFUdA		98	25-150
13C8_PFOA		105	25-150
13C8_PFOs		86	25-150
13C8_PFOsA		82	10-150
13C9_PFNa		92	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-016
Description: SB79-1	Matrix: Solid
Date Sampled: 05/21/2022 1635	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 41.3 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		106	25-150
d-MeFOSA		67	10-150
d3-MeFOSAA		107	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-017
Description: SB100-1	Matrix: Solid
Date Sampled: 05/21/2022 1448	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 74.3 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0115	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.4	0.34	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.4	0.37	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.4	0.27	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.4	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.4	0.48	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.51	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.17	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.2	0.44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	313	25-150
13C2_6:2FTS	N	234	25-150
13C2_8:2FTS	N	343	25-150
13C2_PFDaA		113	25-150
13C2_PFTeDA		87	25-150
13C3_PFBs		96	25-150
13C3_PFHxS		105	25-150
13C4_PFBa		101	25-150
13C4_PFHpA		109	25-150
13C5_PFHxA		110	25-150
13C5_PFPeA		107	25-150
13C6_PFDa		118	25-150
13C7_PFUdA		119	25-150
13C8_PFOA		107	25-150
13C8_PFOs		102	25-150
13C8_PFOsA		103	10-150
13C9_PFNa		112	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-017
Description: SB100-1	Matrix: Solid
Date Sampled: 05/21/2022 1448	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 74.3 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		135	25-150
d-MeFOSA		81	10-150
d3-MeFOSAA		131	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-018
Description: SB111-1	Matrix: Solid
Date Sampled: 05/21/2022 1301	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 55.6 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0125	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.4	0.47	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		3.4	0.52	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		3.4	0.37	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.4	0.49	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.4	0.59	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.4	0.67	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.7	0.22	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.7	0.38	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.7	0.30	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.7	0.37	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.7	0.30	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.7	0.32	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.7	0.30	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.7	0.71	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.7	0.27	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.7	0.30	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.7	0.24	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.7	0.31	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.7	0.25	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.7	0.36	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.7	0.27	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.7	0.32	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.7	0.29	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.7	0.31	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.7	0.60	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		138	25-150
13C2_6:2FTS		142	25-150
13C2_8:2FTS	N	202	25-150
13C2_PFDaA		81	25-150
13C2_PFTeDA		68	25-150
13C3_PFBs		60	25-150
13C3_PFHxS		67	25-150
13C4_PFBa		60	25-150
13C4_PFHpA		66	25-150
13C5_PFHxA		65	25-150
13C5_PFPeA		61	25-150
13C6_PFDa		79	25-150
13C7_PFUdA		83	25-150
13C8_PFOA		66	25-150
13C8_PFOs		70	25-150
13C8_PFOsA		66	10-150
13C9_PFNa		71	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-018
Description: SB111-1	Matrix: Solid
Date Sampled: 05/21/2022 1301	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 55.6 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		97	25-150
d-MeFOSA		54	10-150
d3-MeFOSAA		92	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-019
Description: SB101-1	Matrix: Solid
Date Sampled: 05/21/2022 1505	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 37.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0136	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	5.0	0.69	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	5.0	0.77	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	5.0	0.55	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		5.0	0.73	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		5.0	0.88	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		5.0	1.0	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.5	0.33	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.5	0.56	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.5	0.56	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.5	0.45	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.5	0.47	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.5	1.0	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.5	0.40	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.5	0.36	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.5	0.47	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.5	0.38	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.5	0.54	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.5	0.40	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.5	0.48	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.5	0.47	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.5	0.90	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	287	25-150
13C2_6:2FTS	N	274	25-150
13C2_8:2FTS	N	343	25-150
13C2_PFDaA		97	25-150
13C2_PFTeDA		78	25-150
13C3_PFBs		82	25-150
13C3_PFHxS		90	25-150
13C4_PFBa		82	25-150
13C4_PFHpA		93	25-150
13C5_PFHxA		92	25-150
13C5_PFPeA		87	25-150
13C6_PFDa		102	25-150
13C7_PFUdA		107	25-150
13C8_PFOA		97	25-150
13C8_PFOs		94	25-150
13C8_PFOsA		85	10-150
13C9_PFNa		94	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-019
Description: SB101-1	Matrix: Solid
Date Sampled: 05/21/2022 1505	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 37.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		123	25-150
d-MeFOSA		69	10-150
d3-MeFOSAA		119	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-020
Description: SB106-1	Matrix: Solid
Date Sampled: 05/21/2022 1050	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 75.3 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/09/2022 0147	ASD	05/26/2022 1451	43091

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.5	0.34	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.5	0.38	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.5	0.27	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.5	0.36	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.5	0.49	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.28	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.27	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.22	J	1.2	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.2	0.52	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.2	0.44	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	260	25-150
13C2_6:2FTS	N	255	25-150
13C2_8:2FTS	N	294	25-150
13C2_PFDaA		75	25-150
13C2_PFTeDA		57	25-150
13C3_PFBs		75	25-150
13C3_PFHxS		80	25-150
13C4_PFBa		74	25-150
13C4_PFHpA		85	25-150
13C5_PFHxA		81	25-150
13C5_PFPeA		76	25-150
13C6_PFDa		87	25-150
13C7_PFUdA		85	25-150
13C8_PFOA		87	25-150
13C8_PFOs		76	25-150
13C8_PFOsA		70	10-150
13C9_PFNa		80	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24085-020
Description: SB106-1	Matrix: Solid
Date Sampled: 05/21/2022 1050	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 75.3 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		94	25-150
d-MeFOSA		57	10-150
d3-MeFOSAA		97	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ43091-001

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/08/2022 2113
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/08/2022 2113
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/08/2022 2113
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/08/2022 2113
MeFOSA	ND		1	2.0	0.35	ug/kg	06/08/2022 2113
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/08/2022 2113
PFBS	ND		1	1.0	0.13	ug/kg	06/08/2022 2113
PFDS	ND		1	1.0	0.22	ug/kg	06/08/2022 2113
PFHpS	ND		1	1.0	0.18	ug/kg	06/08/2022 2113
PFNS	ND		1	1.0	0.22	ug/kg	06/08/2022 2113
PFOSA	ND		1	1.0	0.18	ug/kg	06/08/2022 2113
PFPeS	ND		1	1.0	0.19	ug/kg	06/08/2022 2113
PFHxS	ND		1	1.0	0.18	ug/kg	06/08/2022 2113
PFBA	ND		1	1.0	0.42	ug/kg	06/08/2022 2113
PFDA	ND		1	1.0	0.16	ug/kg	06/08/2022 2113
PFDoA	ND		1	1.0	0.18	ug/kg	06/08/2022 2113
PFHpA	ND		1	1.0	0.14	ug/kg	06/08/2022 2113
PFHxA	ND		1	1.0	0.18	ug/kg	06/08/2022 2113
PFNA	ND		1	1.0	0.15	ug/kg	06/08/2022 2113
PFOA	ND		1	1.0	0.21	ug/kg	06/08/2022 2113
PFPeA	ND		1	1.0	0.16	ug/kg	06/08/2022 2113
PFTeDA	ND		1	1.0	0.19	ug/kg	06/08/2022 2113
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/08/2022 2113
PFUdA	ND		1	1.0	0.18	ug/kg	06/08/2022 2113
PFOS	ND		1	1.0	0.36	ug/kg	06/08/2022 2113

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		102	25-150
13C2_6:2FTS		114	25-150
13C2_8:2FTS		111	25-150
13C2_PFDoA		112	25-150
13C2_PFTeDA		108	25-150
13C3_PFBs		108	25-150
13C3_PFHxS		112	25-150
13C4_PFBA		109	25-150
13C4_PFHpA		111	25-150
13C5_PFHxA		108	25-150
13C5_PFPeA		109	25-150
13C6_PFDA		111	25-150
13C7_PFUdA		115	25-150
13C8_PFOA		111	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43091-001

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		109	25-150
13C8_PFOA		106	10-150
13C9_PFOA		126	25-150
d5-EtFOA		116	25-150
d-MeFOA		93	10-150
d3-MeFOA		112	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43091-002

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.7	1		91	50-150	06/08/2022 2124
6:2 FTS	1.9	2.3	1		120	50-150	06/08/2022 2124
4:2 FTS	1.9	1.9	1		102	50-150	06/08/2022 2124
EtFOSAA	2.0	2.0	1		99	50-150	06/08/2022 2124
MeFOSA	2.0	2.2	1		110	50-150	06/08/2022 2124
MeFOSAA	2.0	2.1	1		103	50-150	06/08/2022 2124
PFBS	1.8	1.8	1		100	50-150	06/08/2022 2124
PFDS	1.9	1.8	1		92	50-150	06/08/2022 2124
PFHpS	1.9	1.9	1		99	50-150	06/08/2022 2124
PFNS	1.9	1.8	1		96	50-150	06/08/2022 2124
PFOSA	2.0	1.9	1		95	50-150	06/08/2022 2124
PFPeS	1.9	1.9	1		101	50-150	06/08/2022 2124
PFHxS	1.8	1.7	1		95	50-150	06/08/2022 2124
PFBA	2.0	2.0	1		102	50-150	06/08/2022 2124
PFDA	2.0	2.0	1		101	50-150	06/08/2022 2124
PFDoA	2.0	2.0	1		101	50-150	06/08/2022 2124
PFHpA	2.0	1.9	1		96	50-150	06/08/2022 2124
PFHxA	2.0	2.1	1		104	50-150	06/08/2022 2124
PFNA	2.0	2.0	1		100	50-150	06/08/2022 2124
PFOA	2.0	1.8	1		92	50-150	06/08/2022 2124
PFPeA	2.0	1.9	1		97	50-150	06/08/2022 2124
PFTeDA	2.0	2.0	1		100	50-150	06/08/2022 2124
PFTTrDA	2.0	2.0	1		99	50-150	06/08/2022 2124
PFUdA	2.0	2.0	1		100	50-150	06/08/2022 2124
PFOS	1.9	1.8	1		96	50-150	06/08/2022 2124
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		91	25-150				
13C2_6:2FTS		102	25-150				
13C2_8:2FTS		99	25-150				
13C2_PFDoA		104	25-150				
13C2_PFTeDA		95	25-150				
13C3_PFBs		100	25-150				
13C3_PFHxS		103	25-150				
13C4_PFBA		100	25-150				
13C4_PFHpA		103	25-150				
13C5_PFHxA		93	25-150				
13C5_PFPeA		101	25-150				
13C6_PFDA		102	25-150				
13C7_PFUdA		100	25-150				
13C8_PFOA		101	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43091-002

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		104	25-150
13C8_PFOA		102	10-150
13C9_PFOA		115	25-150
d5-EtFOSAA		102	25-150
d-MeFOA		81	10-150
d3-MeFOSAA		98	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: XE24085-020MS

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	ND	2.1	2.0		1	96	50-150	06/09/2022 0158
6:2 FTS	ND	2.1	2.5		1	117	50-150	06/09/2022 0158
4:2 FTS	ND	2.1	2.1		1	100	50-150	06/09/2022 0158
EtFOSAA	ND	2.2	2.2		1	101	50-150	06/09/2022 0158
MeFOSA	ND	2.2	2.4		1	111	50-150	06/09/2022 0158
MeFOSAA	ND	2.2	2.4		1	110	50-150	06/09/2022 0158
PFBS	ND	2.0	1.9		1	99	50-150	06/09/2022 0158
PFDS	ND	2.1	2.2		1	104	50-150	06/09/2022 0158
PFHpS	ND	2.1	2.0		1	93	50-150	06/09/2022 0158
PFNS	ND	2.1	2.1		1	97	50-150	06/09/2022 0158
PFOSA	ND	2.2	2.1		1	94	50-150	06/09/2022 0158
PFPeS	ND	2.1	2.2		1	105	50-150	06/09/2022 0158
PFHxS	0.22	2.0	2.1		1	104	50-150	06/09/2022 0158
PFBA	ND	2.2	2.5		1	112	50-150	06/09/2022 0158
PFDA	ND	2.2	2.3		1	104	50-150	06/09/2022 0158
PFDoA	ND	2.2	2.3		1	103	50-150	06/09/2022 0158
PFHpA	ND	2.2	2.3		1	103	50-150	06/09/2022 0158
PFHxA	ND	2.2	2.2		1	99	50-150	06/09/2022 0158
PFNA	ND	2.2	2.2		1	98	50-150	06/09/2022 0158
PFOA	ND	2.2	2.3		1	104	50-150	06/09/2022 0158
PFPeA	ND	2.2	2.3		1	105	50-150	06/09/2022 0158
PFTeDA	ND	2.2	2.3		1	103	50-150	06/09/2022 0158
PFTTrDA	ND	2.2	2.2		1	102	50-150	06/09/2022 0158
PFUdA	ND	2.2	2.3		1	106	50-150	06/09/2022 0158
PFOS	ND	2.0	2.2		1	107	50-150	06/09/2022 0158

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS	N	250	25-150
13C2_6:2FTS	N	241	25-150
13C2_8:2FTS	N	299	25-150
13C2_PFDoA		77	25-150
13C2_PFTeDA		58	25-150
13C3_PFBs		77	25-150
13C3_PFHxS		82	25-150
13C4_PFBA		75	25-150
13C4_PFHpA		85	25-150
13C5_PFHxA		84	25-150
13C5_PFPeA		78	25-150
13C6_PFDA		86	25-150
13C7_PFUdA		86	25-150
13C8_PFOA		85	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: XE24085-020MS

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		78	25-150
13C8_PFOSA		71	10-150
13C9_PFNA		78	25-150
d5-EtFOSAA		94	25-150
d-MeFOSA		55	10-150
d3-MeFOSAA		97	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: XE24085-020MD

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
8:2 FTS	ND	2.4	2.0	1		85	0.85	50-150	30	06/09/2022 0209
6:2 FTS	ND	2.3	2.5	1		108	3.5	50-150	30	06/09/2022 0209
4:2 FTS	ND	2.3	2.1	1		91	1.7	50-150	30	06/09/2022 0209
EtFOSAA	ND	2.5	2.7	1		108	17	50-150	30	06/09/2022 0209
MeFOSA	ND	2.5	2.6	1		107	7.7	50-150	30	06/09/2022 0209
MeFOSAA	ND	2.5	2.5	1		101	3.0	50-150	30	06/09/2022 0209
PFBS	ND	2.2	2.1	1		94	5.8	50-150	30	06/09/2022 0209
PFDS	ND	2.4	2.2	1		94	1.3	50-150	30	06/09/2022 0209
PFHpS	ND	2.3	2.1	1		91	9.7	50-150	30	06/09/2022 0209
PFNS	ND	2.4	2.3	1		95	9.5	50-150	30	06/09/2022 0209
PFOSA	ND	2.5	2.4	1		96	14	50-150	30	06/09/2022 0209
PFPeS	ND	2.3	2.4	1		102	9.2	50-150	30	06/09/2022 0209
PFHxS	0.22	2.3	2.1	1		94	2.0	50-150	30	06/09/2022 0209
PFBA	ND	2.5	2.6	1		104	3.7	50-150	30	06/09/2022 0209
PFDA	ND	2.5	2.4	1		96	3.4	50-150	30	06/09/2022 0209
PFDoA	ND	2.5	2.4	1		96	4.0	50-150	30	06/09/2022 0209
PFHpA	ND	2.5	2.4	1		98	7.2	50-150	30	06/09/2022 0209
PFHxA	ND	2.5	2.3	1		92	4.0	50-150	30	06/09/2022 0209
PFNA	ND	2.5	2.3	1		94	6.6	50-150	30	06/09/2022 0209
PFOA	ND	2.5	2.4	1		97	4.5	50-150	30	06/09/2022 0209
PFPeA	ND	2.5	2.4	1		98	5.2	50-150	30	06/09/2022 0209
PFTeDA	ND	2.5	2.5	1		99	7.5	50-150	30	06/09/2022 0209
PFTTrDA	ND	2.5	2.4	1		98	7.3	50-150	30	06/09/2022 0209
PFUdA	ND	2.5	2.2	1		90	5.1	50-150	30	06/09/2022 0209
PFOS	ND	2.3	2.1	1		93	2.6	50-150	30	06/09/2022 0209

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS	N	286	25-150
13C2_6:2FTS	N	254	25-150
13C2_8:2FTS	N	319	25-150
13C2_PFDaA		78	25-150
13C2_PFTeDA		61	25-150
13C3_PFBs		84	25-150
13C3_PFHxS		89	25-150
13C4_PFBa		81	25-150
13C4_PFHpA		94	25-150
13C5_PFHxA		93	25-150
13C5_PFPeA		84	25-150
13C6_PFDa		91	25-150
13C7_PFUdA		92	25-150
13C8_PFOA		94	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: XE24085-020MD

Matrix: Solid

Batch: 43091

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1451

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		84	25-150
13C8_PFOA		72	10-150
13C9_PFOA		82	25-150
d5-EtFOSAA		97	25-150
d-MeFOA		57	10-150
d3-MeFOSAA		100	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44515-001

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
6:2 FTS	2.0		1	2.0	0.31	ug/kg	06/14/2022 2144
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		110	25-150				
13C2_6:2FTS		128	25-150				
13C2_8:2FTS		114	25-150				
13C2_PFDaA		115	25-150				
13C2_PFTeDA		116	25-150				
13C3_PFBs		117	25-150				
13C3_PFHxS		116	25-150				
13C4_PFBa		118	25-150				
13C4_PFHpA		114	25-150				
13C5_PFHxA		115	25-150				
13C5_PFPeA		117	25-150				
13C6_PFDa		117	25-150				
13C7_PFUdA		117	25-150				
13C8_PFOA		113	25-150				
13C8_PFOs		116	25-150				
13C8_PFOsA		111	10-150				
13C9_PFNa		113	25-150				
d5-EtFOSAA		118	25-150				
d-MeFOSa		86	10-150				
d3-MeFOSAA		115	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44515-002

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
6:2 FTS	1.9	2.3		1	121	50-150	06/14/2022 2155
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		97	25-150				
13C2_6:2FTS		105	25-150				
13C2_8:2FTS		97	25-150				
13C2_PFDaA		99	25-150				
13C2_PFTeDA		99	25-150				
13C3_PFBs		102	25-150				
13C3_PFHxS		104	25-150				
13C4_PFBa		102	25-150				
13C4_PFHpA		100	25-150				
13C5_PFHxA		105	25-150				
13C5_PFPeA		101	25-150				
13C6_PFDa		101	25-150				
13C7_PFUdA		105	25-150				
13C8_PFOA		99	25-150				
13C8_PFOs		104	25-150				
13C8_PFOsA		98	10-150				
13C9_PFNa		103	25-150				
d5-EtFOSAA		101	25-150				
d-MeFOSa		85	10-150				
d3-MeFOSAA		99	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: XE24085-014MS

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
6:2 FTS	ND	3.7	3.7		1	100	50-150	06/15/2022 0050
Surrogate	Q	% Rec	Acceptance Limit					
13C2_4:2FTS	N	266	25-150					
13C2_6:2FTS	N	246	25-150					
13C2_8:2FTS	N	315	25-150					
13C2_PFDaA		124	25-150					
13C2_PFTeDA		89	25-150					
13C3_PFBs		94	25-150					
13C3_PFHxS		97	25-150					
13C4_PFBa		96	25-150					
13C4_PFHpA		96	25-150					
13C5_PFHxA		92	25-150					
13C5_PFPeA		98	25-150					
13C6_PFDa		112	25-150					
13C7_PFUdA		121	25-150					
13C8_PFOA		94	25-150					
13C8_PFOs		98	25-150					
13C8_PFOsA		95	10-150					
13C9_PFNa		103	25-150					
d5-EtFOSAA	N	154	25-150					
d-MeFOSA		87	10-150					
d3-MeFOSAA		141	25-150					

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: XE24085-014MD

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
6:2 FTS	ND	3.2	3.7		1	115	0.95	50-150	30	06/15/2022 0101
Surrogate	Q	% Rec	Acceptance Limit							
13C2_4:2FTS	N	273	25-150							
13C2_6:2FTS	N	258	25-150							
13C2_8:2FTS	N	326	25-150							
13C2_PFDaA		122	25-150							
13C2_PFTeDA		88	25-150							
13C3_PFBs		99	25-150							
13C3_PFHxS		97	25-150							
13C4_PFBa		100	25-150							
13C4_PFHpA		103	25-150							
13C5_PFHxA		102	25-150							
13C5_PFPeA		101	25-150							
13C6_PFDa		122	25-150							
13C7_PFUdA		121	25-150							
13C8_PFOA		97	25-150							
13C8_PFOs		104	25-150							
13C8_PFOsA		98	10-150							
13C9_PFNa		108	25-150							
d5-EtFOSAA	N	163	25-150							
d-MeFOSA		79	10-150							
d3-MeFOSAA		145	25-150							

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134032

Client BGES Inc		Report to Contact Jayne Martin		Telephone No. / E-mail 907-644-2000 Jayne@BGES.com		Quote No. CO107286			
Address 1042 E 6th Ave		Sampler's Signature 		Analyst (Attach ket if more space is needed)		Form 7 of 18			
City Anchorage	State AK	Zip Code 99501	Printed Name Sam Bundy		 XE24085 ETR2 Remarks / Cooler I.D.				
Project Name Home Airport		Project No.		R.O. No.					
Sample ID / Description (Containers for each sample may be combined on one line.)		Collection Date(s)	Collection Time (M:SS)	Matrix	No. of Containers by Preservative Type				
SB83-1		5-21-22	1714	G	X				2
SB92-1			1602	G	X				2
SB113-1			1401	G	X				3
SB89-1			1548	G	X				2
SB91-1			1530	G	X				2
SB114-3			1140	G	X				2
SB117-1			1246	G	X				2
SB115-1			1228	G	X				2
SB107-1			1006	G	X			3	
SB114-1			1131	G	X			2	
Turn Around Time Required (Prior lab approval required for expedited TAT) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Disposal by Lab		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown			QC Requirements (Specify) Level II		
1. Relinquished by 		Date 5/23/22	Time 0830	1. Received by			Date	Time	
2. Relinquished by		Date	Time	2. Received by			Date	Time	
3. Relinquished by		Date	Time	3. Received by			Date	Time	
4. Relinquished by Fed Ex		Date 5/24/22	Time 1535	4. Laboratory received by 			Date 5/24/22	Time 1535	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.				LAB USE ONLY Resolved on ice (Circle) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Ice Pack <input type="checkbox"/> Receipt Temp. 8.0 °C		Temp Blank <input checked="" type="checkbox"/> Y <input type="checkbox"/> N	

DISTRIBUTION: WHITE & YELLOW-Return to Laboratory with Sample(s); PINK-Field/Client Copy

Document Number: MEC03M2-01

PACE ANALYTICAL SERVICES, LLC



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 106 Vantage Point Drive - West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134033

Client: BOES, Inc		Telephone No. / E-mail: 917-644-2400		Quote No. 00107286																																																																																																									
Address: 1042 E 6th Ave		Analysis (Attach list if more space is needed)																																																																																																											
City: Anchorage	State: AK	Zip Code: 99507	Page 8 of 18																																																																																																										
Project Name: Home Airport		Barcode: XE24085																																																																																																											
Project No.:		ETBZ																																																																																																											
Report to Contact: Jayne Martin		Remarks / Cooler ID:																																																																																																											
Sampler's Signature: <i>[Signature]</i>		Matrix																																																																																																											
Printed Name: Sam Bundy		<table border="1"> <tr> <th>Matrix</th> <th>Aspirated</th> <th>Analysis</th> <th>Aspirated</th> <th>Analysis</th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>9</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>10</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>11</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>12</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>13</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>14</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>15</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>16</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>17</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>18</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>19</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>			Matrix	Aspirated	Analysis	Aspirated	Analysis	1					2					3					4					5					6					7					8					9					10					11					12					13					14					15					16					17					18					19					20				
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SB118-1		5-21-22		1148																																																																																																									
SB105-1				1038																																																																																																									
SB104-1				1021																																																																																																									
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SB102-1				1416																																																																																																									
SB079-1				1635																																																																																																									
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1. Requisitioned by: <i>[Signature]</i>		Date/Time: 5/23/22 0830		OC Requirements (Specify): Level II																																																																																																									
2. Requisitioned by:		Date/Time:		Date/Time:																																																																																																									
3. Requisitioned by:		Date/Time:		Date/Time:																																																																																																									
4. Requisitioned by: Foley		Date/Time: 5/24/22 1535		Date/Time: 5/24/22 1535																																																																																																									
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY		Receipt Temp: 8.0 °C																																																																																																									

Document Number: ME00026-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Client Copy

PACE ANALYTICAL SERVICES, LLC



Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGES Inc

Cooler Inspected by/date: KDRW / 05/24/2022

Lot #: XH24085

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>22-480</u>	
8.0 / 8.0 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone <u>(circle)</u> email <u>(circle)</u> face-to-face <u>(circle)</u> one.
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/2") or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H ₂ SO ₄ , HNO ₃ , HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Samples(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₅) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>KDRW</u> Date: <u>05/24/2022</u>	

Comments: Ice Melted



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1868854
Lot Number: **XE24084**
Date Completed: 06/17/2022

07/05/2022 12:44 PM
Approved and released by:
Project Manager II: **Edward Barnett**



The electronic signature above is the equivalent of a handwritten signature.
This report shall not be reproduced, except in its entirety, without the written approval of Pace Analytical Services, LLC.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE24084

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE24084-017, XE24084-018, XE24084-019, XE24084-019, XE24084-020. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 43083 exceeded acceptance criteria for 8:2 FTS and PFDA surrogates/EIS. The associated target analytes passed; therefore, the data were reported.

Surrogate recovery for the following samples was outside the upper control limit: XE24084-017, XE24084-018. The samples were re-extracted due to high surrogate recoveries and a detected concentration in the samples, however, the Method Blank associated with the re-extracted samples contained the analyte 6:2 FTS at a concentration above the PQL, but samples were ND. Run 2 of these samples has been reported for the associated analytes with the 6:2 FTS surrogate.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE24084
Project Name: Homer Airport
Project Number: WG1868854

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB189-2	Solid	05/20/2022 1129	05/24/2022
002	SB188-2	Solid	05/20/2022 1112	05/24/2022
003	SB39-2	Solid	05/20/2022 1145	05/24/2022
004	SB186-2	Solid	05/20/2022 1046	05/24/2022
005	SB181-1	Solid	05/20/2022 1012	05/24/2022
006	SB74-2	Solid	05/20/2022 1306	05/24/2022
007	SB94-2	Solid	05/20/2022 1523	05/24/2022
008	SB96-2	Solid	05/20/2022 1548	05/24/2022
009	SB86-2	Solid	05/20/2022 1448	05/24/2022
010	SB88-2	Solid	05/20/2022 1510	05/24/2022
011	SB40-2	Solid	05/20/2022 1156	05/24/2022
012	SB95-2	Solid	05/20/2022 1535	05/24/2022
013	SB85-2	Solid	05/20/2022 1434	05/24/2022
014	SB78-4	Solid	05/20/2022 1412	05/24/2022
015	SB41-2	Solid	05/20/2022 1211	05/24/2022
016	SB84-2	Solid	05/20/2022 1423	05/24/2022
017	SB80-3	Solid	05/21/2022 1653	05/24/2022
018	SB116-1	Solid	05/21/2022 1117	05/24/2022
019	SB93-1	Solid	05/21/2022 1510	05/24/2022
020	SB90-1	Solid	05/21/2022 1525	05/24/2022

(20 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
Pace Analytical LLC
Lot Number: XE24084
Project Name: Homer Airport
Project Number: WG1868854

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
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(0 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-017
Description: SB80-3	Matrix: Solid
Date Sampled: 05/21/2022 1653	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 22.4 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1926	MMM	05/26/2022 1446	43083
2	SOP SPE	PFAS by ID SOP	1	06/14/2022 2345	ASD	06/10/2022 1306	44515

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	7.9	1.1	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	7.8	1.2	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	7.9	0.86	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.9	1.1	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		7.9	1.4	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.9	1.6	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		4.0	0.52	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		4.0	0.88	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		4.0	0.69	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		4.0	0.87	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		4.0	0.70	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		4.0	0.73	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		4.0	0.70	ug/kg	1
Perfluoro-n-butyanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		4.0	1.6	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		4.0	0.62	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		4.0	0.69	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		4.0	0.56	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		4.0	0.73	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		4.0	0.59	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		4.0	0.84	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		4.0	0.63	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		4.0	0.75	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		4.0	0.68	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		4.0	0.73	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		4.0	1.4	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	332	25-150	N	269	25-150
13C2_6:2FTS	N	304	25-150	N	303	25-150
13C2_8:2FTS	N	377	25-150	N	379	25-150
13C2_PFDa		113	25-150		119	25-150
13C2_PFTeDA		75	25-150		82	25-150
13C3_PFBs		95	25-150		102	25-150
13C3_PFHxS		106	25-150		103	25-150
13C4_PFBa		91	25-150		105	25-150
13C4_PFHpA		108	25-150		111	25-150
13C5_PFHxA		99	25-150		113	25-150
13C5_PFPeA		110	25-150		105	25-150
13C6_PFDa		125	25-150		121	25-150
13C7_PFUdA		111	25-150		125	25-150
13C8_PFOA		102	25-150		104	25-150
13C8_PFOs		105	25-150		108	25-150
13C8_PFOsA		88	10-150		98	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-017
Description: SB80-3	Matrix: Solid
Date Sampled: 05/21/2022 1653	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 22.4 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		110	25-150		115	25-150
d5-EtFOSAA		143	25-150	N	157	25-150
d-MeFOSA		81	10-150		81	10-150
d3-MeFOSAA		150	25-150		149	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-018
Description: SB116-1	Matrix: Solid
Date Sampled: 05/21/2022 1117	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 46.2 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1937	MMM	05/26/2022 1446	43083
2	SOP SPE	PFAS by ID SOP	1	06/15/2022 0018	ASD	06/10/2022 1306	44515

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.6	0.50	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.8	0.58	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.6	0.39	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	3.6	0.52	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.6	0.63	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	3.6	0.71	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.8	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.8	0.40	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.8	0.40	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-n-butyanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.8	0.75	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.8	0.29	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.8	0.26	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.8	0.27	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.8	0.38	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.8	0.29	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.8	0.64	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	340	25-150	N	243	25-150
13C2_6:2FTS	N	274	25-150	N	233	25-150
13C2_8:2FTS	N	407	25-150	N	296	25-150
13C2_PFDaA		127	25-150		106	25-150
13C2_PFTeDA		84	25-150		76	25-150
13C3_PFBs		94	25-150		89	25-150
13C3_PFHxS		106	25-150		90	25-150
13C4_PFBa		94	25-150		87	25-150
13C4_PFHpA		101	25-150		95	25-150
13C5_PFHxA		97	25-150		96	25-150
13C5_PFPeA		99	25-150		89	25-150
13C6_PFDa		125	25-150		101	25-150
13C7_PFUdA		126	25-150		111	25-150
13C8_PFOA		98	25-150		91	25-150
13C8_PFOs		114	25-150		91	25-150
13C8_PFOsA		94	10-150		94	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-018
Description: SB116-1	Matrix: Solid
Date Sampled: 05/21/2022 1117	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 46.2 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		117	25-150		98	25-150
d5-EtFOSAA	N	164	25-150		136	25-150
d-MeFOSA		85	10-150		70	10-150
d3-MeFOSAA	N	158	25-150		130	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-019
Description: SB93-1	Matrix: Solid
Date Sampled: 05/21/2022 1510	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 35.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1947	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.9	0.67	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	4.9	0.75	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.9	0.53	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.9	0.70	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.9	0.85	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.9	0.96	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.4	0.32	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.4	0.54	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.4	0.54	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.4	0.45	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.4	1.0	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.4	0.38	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.4	0.43	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.4	0.35	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.4	0.45	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.4	0.36	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.4	0.52	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.4	0.39	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.4	0.46	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.4	0.42	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.4	0.45	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.4	0.87	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	302	25-150
13C2_6:2FTS	N	287	25-150
13C2_8:2FTS	N	367	25-150
13C2_PFDaA		107	25-150
13C2_PFTeDA		74	25-150
13C3_PFBS		92	25-150
13C3_PFHxS		112	25-150
13C4_PFBA		86	25-150
13C4_PFHpA		110	25-150
13C5_PFHxA		98	25-150
13C5_PFPeA		98	25-150
13C6_PFDA		113	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		101	25-150
13C8_PFOS		101	25-150
13C8_PFOSA		81	10-150
13C9_PFNA		107	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-019	
Description: SB93-1	Matrix: Solid	
Date Sampled: 05/21/2022 1510	Project Name: Homer Airport	% Solids: 35.1 05/27/2022 2230
Date Received: 05/24/2022	Project Number: WG1868854	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		136	25-150
d-MeFOSA		75	10-150
d3-MeFOSAA		124	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-020
Description: SB90-1	Matrix: Solid
Date Sampled: 05/21/2022 1525	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 31.4 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1958	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	6.0	0.83	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	6.0	0.92	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	6.0	0.65	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		6.0	0.87	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		6.0	1.0	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		6.0	1.2	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.0	0.39	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.0	0.67	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.0	0.53	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.0	0.66	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.0	0.53	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.0	0.56	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.0	0.53	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.0	1.3	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.0	0.48	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.0	0.53	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.0	0.43	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.0	0.56	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.0	0.45	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.0	0.64	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.0	0.48	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.0	0.57	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.0	0.52	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.0	0.56	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.0	1.1	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	297	25-150
13C2_6:2FTS	N	267	25-150
13C2_8:2FTS	N	375	25-150
13C2_PFDaA		103	25-150
13C2_PFTeDA		70	25-150
13C3_PFBs		89	25-150
13C3_PFHxS		101	25-150
13C4_PFBa		80	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		91	25-150
13C5_PFPeA		95	25-150
13C6_PFDa		108	25-150
13C7_PFUdA		106	25-150
13C8_PFOA		99	25-150
13C8_PFOs		97	25-150
13C8_PFOsA		87	10-150
13C9_PFNa		102	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24084-020
Description: SB90-1	Matrix: Solid
Date Sampled: 05/21/2022 1525	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 31.4 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		135	25-150
d-MeFOSA		77	10-150
d3-MeFOSAA		127	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ43083-001

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/05/2022 1647
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/05/2022 1647
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/05/2022 1647
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/05/2022 1647
MeFOSA	ND		1	2.0	0.35	ug/kg	06/05/2022 1647
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/05/2022 1647
PFBS	ND		1	1.0	0.13	ug/kg	06/05/2022 1647
PFDS	ND		1	1.0	0.22	ug/kg	06/05/2022 1647
PFHpS	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFNS	ND		1	1.0	0.22	ug/kg	06/05/2022 1647
PFOSA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFPeS	ND		1	1.0	0.19	ug/kg	06/05/2022 1647
PFHxS	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFBA	ND		1	1.0	0.42	ug/kg	06/05/2022 1647
PFDA	ND		1	1.0	0.16	ug/kg	06/05/2022 1647
PFDoA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFHpA	ND		1	1.0	0.14	ug/kg	06/05/2022 1647
PFHxA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFNA	ND		1	1.0	0.15	ug/kg	06/05/2022 1647
PFOA	ND		1	1.0	0.21	ug/kg	06/05/2022 1647
PFPeA	ND		1	1.0	0.16	ug/kg	06/05/2022 1647
PFTeDA	ND		1	1.0	0.19	ug/kg	06/05/2022 1647
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/05/2022 1647
PFUdA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFOS	ND		1	1.0	0.36	ug/kg	06/05/2022 1647

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		110	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		88	25-150
13C2_PFDoA		103	25-150
13C2_PFTeDA		101	25-150
13C3_PFBs		101	25-150
13C3_PFHxS		106	25-150
13C4_PFBA		106	25-150
13C4_PFHpA		112	25-150
13C5_PFHxA		94	25-150
13C5_PFPeA		106	25-150
13C6_PFDA		113	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		96	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43083-001

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		111	25-150
13C8_PFOA		88	10-150
13C9_PFOA		109	25-150
d5-EtFOSAA		104	25-150
d-MeFOA		75	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43083-002

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.6		1	81	50-150	06/07/2022 0027
6:2 FTS	1.9	1.8		1	95	50-150	06/07/2022 0027
4:2 FTS	1.9	1.4		1	73	50-150	06/07/2022 0027
EtFOSAA	2.0	2.0		1	98	50-150	06/07/2022 0027
MeFOSA	2.0	2.1		1	104	50-150	06/07/2022 0027
MeFOSAA	2.0	1.8		1	90	50-150	06/07/2022 0027
PFBS	1.8	1.7		1	98	50-150	06/07/2022 0027
PFDS	1.9	1.9		1	101	50-150	06/07/2022 0027
PFHpS	1.9	1.8		1	95	50-150	06/07/2022 0027
PFNS	1.9	1.9		1	99	50-150	06/07/2022 0027
PFOSA	2.0	2.0		1	98	50-150	06/07/2022 0027
PFPeS	1.9	1.6		1	85	50-150	06/07/2022 0027
PFHxS	1.8	1.9		1	102	50-150	06/07/2022 0027
PFBA	2.0	2.3		1	117	50-150	06/07/2022 0027
PFDA	2.0	1.6		1	78	50-150	06/07/2022 0027
PFDaA	2.0	1.7		1	83	50-150	06/07/2022 0027
PFHpA	2.0	2.0		1	99	50-150	06/07/2022 0027
PFHxA	2.0	1.8		1	92	50-150	06/07/2022 0027
PFNA	2.0	1.7		1	85	50-150	06/07/2022 0027
PFOA	2.0	1.8		1	90	50-150	06/07/2022 0027
PFPeA	2.0	1.9		1	93	50-150	06/07/2022 0027
PFTeDA	2.0	2.0		1	102	50-150	06/07/2022 0027
PFTTrDA	2.0	1.8		1	88	50-150	06/07/2022 0027
PFUdA	2.0	1.9		1	93	50-150	06/07/2022 0027
PFOS	1.9	1.7		1	93	50-150	06/07/2022 0027

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		139	25-150
13C2_6:2FTS		132	25-150
13C2_8:2FTS	N	154	25-150
13C2_PFDaA		138	25-150
13C2_PFTeDA		130	25-150
13C3_PFBs		130	25-150
13C3_PFHxS		131	25-150
13C4_PFBa		134	25-150
13C4_PFHpA		119	25-150
13C5_PFHxA		124	25-150
13C5_PFPeA		126	25-150
13C6_PFDa	N	154	25-150
13C7_PFUdA		134	25-150
13C8_PFOA		141	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43083-002

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		141	25-150
13C8_PFOA		132	10-150
13C9_PFOA		130	25-150
d5-EtFOSAA		122	25-150
d-MeFOA		109	10-150
d3-MeFOSAA		137	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44515-001

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
6:2 FTS	2.0		1	2.0	0.31	ug/kg	06/14/2022 2144
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		110	25-150				
13C2_6:2FTS		128	25-150				
13C2_8:2FTS		114	25-150				
13C2_PFDaA		115	25-150				
13C2_PFTeDA		116	25-150				
13C3_PFBs		117	25-150				
13C3_PFHxS		116	25-150				
13C4_PFBa		118	25-150				
13C4_PFHpA		114	25-150				
13C5_PFHxA		115	25-150				
13C5_PFPeA		117	25-150				
13C6_PFDa		117	25-150				
13C7_PFUdA		117	25-150				
13C8_PFOA		113	25-150				
13C8_PFOs		116	25-150				
13C8_PFOsA		111	10-150				
13C9_PFNa		113	25-150				
d5-EtFOSAA		118	25-150				
d-MeFOSa		86	10-150				
d3-MeFOSAA		115	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44515-002

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
6:2 FTS	1.9	2.3		1	121	50-150	06/14/2022 2155
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		97	25-150				
13C2_6:2FTS		105	25-150				
13C2_8:2FTS		97	25-150				
13C2_PFDaA		99	25-150				
13C2_PFTeDA		99	25-150				
13C3_PFBs		102	25-150				
13C3_PFHxS		104	25-150				
13C4_PFBa		102	25-150				
13C4_PFHpA		100	25-150				
13C5_PFHxA		105	25-150				
13C5_PFPeA		101	25-150				
13C6_PFDa		101	25-150				
13C7_PFUdA		105	25-150				
13C8_PFOA		99	25-150				
13C8_PFOs		104	25-150				
13C8_PFOsA		98	10-150				
13C9_PFNa		103	25-150				
d5-EtFOSAA		101	25-150				
d-MeFOSa		85	10-150				
d3-MeFOSAA		99	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134027

Client BGES, Inc		Report to Contact Jayne Martin		Telephone No. / E-mail 707-644-2900		Quote No. 00107280	
Address 1042 E 6th Ave		Sampler's Signature <i>[Signature]</i>		Analyst (Attach list if more space is necessary)		Page 5 of 18	
City Anchorage		Patient Name Sam Bundy		State AK		Zip Code 99501	
Project Name Home Airport		Project No.		Matrix		No. of Containers by Preservative Type	
Sample ID / Description (Containers for each sample may be combined on one line.)		Delivery Date(s)		R.O. No.		Collection Time (M:PM)	
SB187-2		5-20-12		6		1129	
SB188-2				6		1112	
SB39-2				6		1445	
SB186-2				6		1046	
SB181-1				6		1012	
SB74-2				6		1306	
SB94-2				6		1523	
SB96-2				6		1548	
SB86-2				6		1448	
SB88-2				6		1510	
Turn Around Time Required (prior lab approval required for expedited TAT) <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Rush (Specify)		Sample Disposal <input type="checkbox"/> Return to Client <input checked="" type="checkbox"/> Dispose by Lab		Possible Hazard Identification <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison <input checked="" type="checkbox"/> Unknown		GC Requirements (Specify) Level II	
1. Requisitioned by <i>[Signature]</i>		Date 5/22/12 0830		1. Received by		Date	
2. Requisitioned by		Date		2. Received by		Date	
3. Requisitioned by		Date		3. Received by		Date	
4. Requisitioned by FELIX		Date 5/24/12 1535		4. Laboratory received by <i>[Signature]</i>		Date 5/24/12 1535	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY Received on (or Close) (25) No. 4.2		Receipt Temp. 70		Temp Blank AT	

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Facility/Client Copy

Document Number: MED035MG-01



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134026

Client BOES, Inc. Address: 1042 E 6th Ave City: Anchorage State: AK Zip Code: 99501 Project Name: Home Airport Project No.		Report to Contact Jayce Martin Sample Signatures: <i>[Signature]</i> Printed Name: Sam Bundy		Telephone No. / E-mail: 907-644-2900 Jayce@BOES, Inc.com Analytical (attach list if more space is needed)		Quote No.: 00107286 Page 6 of 18 Barcode: XE24084 ETEE:	
Sample ID / Description (Containers for each sample may be combined on one line.)	Collection Date(s)	Collection Time (optional)	Matrix	No. of Containers by Preservative Type			Remarks / Cooler I.D.
SB40-2	5-20-22	1156	X	APPROX	WATER	NON-HAZ	Hold 1
SB95-2		1535	X	APPROX	WATER	NON-HAZ	Hold 1
SB85-2		1434	X	APPROX	WATER	NON-HAZ	Hold 1
SB78-4		1414	X	APPROX	WATER	NON-HAZ	Hold 1
SB41-2		1211	X	APPROX	WATER	NON-HAZ	Hold 1
SB84-2		1423	X	APPROX	WATER	NON-HAZ	Hold 1
SB80-3	5-21-22	1653	X	APPROX	WATER	NON-HAZ	Hold 2
SB116-1		1117	X	APPROX	WATER	NON-HAZ	Hold 2
SB93-1		1510	X	APPROX	WATER	NON-HAZ	Hold 2
SB90-1		1525	X	APPROX	WATER	NON-HAZ	Hold 2

OSN 538441415

GC Requirements: (Specify) **Level II**

Possible Hazard Identification:
 Non-Hazard Flammable Som. Irritant Poison Unlabeled

1. Received by: [Signature] Date: 5/23/22 Time: 0830
 2. Received by: [Signature] Date: [] Time: []
 3. Received by: [Signature] Date: [] Time: []
 4. Laboratory received by: [Signature] Date: 5/24/22 Time: 1535
 LAB USE ONLY: Received on ice (Circle) (Yes) No () Recolort Temp. 4-2 °C

1. Requisitioned by: [Signature]
 2. Requisitioned by: [Signature]
 3. Requisitioned by: [Signature]
 4. Requisitioned by: [Signature]

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

Document Number: MEC002-01

DISTRIBUTION: WHITE & YELLOW Return to laboratory with Sample(s); PINK-Field/Client Copy



Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGES Inc

Cooler Inspected by/date: KDRW / 05/24/2022

Lot #: XE24084

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other: _____	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u> Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>	
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>22-480</u> <u>4.2 / 4.2 °C 8.0 / 8.0 °C NA / NA °C NA / NA °C</u>	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / <u>email</u> / face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within 1/2 the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (1/8" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₂ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote # _____
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L. (If #19 is <i>no</i>) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>KDRW</u> Date: <u>05/24/2022</u>	

Comments: Ice Melted



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1868854
Lot Number: **XE24083**
Date Completed: 06/17/2022

07/05/2022 12:44 PM
Approved and released by:
Project Manager II: **Edward Barnett**



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Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
106 Vantage Point Drive West Columbia, SC 29172
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE24083

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE24083-001, XE24083-002, XE24083-003, XE24083-004, XE24083-005, XE24083-006, XE24083-007, XE24083-010. The samples did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 43083 exceeded acceptance criteria for 8:2 FTS and PFDA surrogates/EIS. The associated target analytes passed; therefore, the data were reported.

Surrogate recovery for the following samples was outside control limits: XE24083-002, XE24083-006, XE24083-010. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Surrogate recovery for the following sample was outside control limits: XE24083-007. Re-extraction and/or re-analysis was performed outside of analytical holding time.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE24083
Project Name: Homer Airport
Project Number: WG1868854

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB75-1	Solid	05/20/2022 1324	05/24/2022
002	SB77-1	Solid	05/20/2022 1342	05/24/2022
003	SB74-1	Solid	05/20/2022 1301	05/24/2022
004	SB94-1	Solid	05/20/2022 1518	05/24/2022
005	SB95-1	Solid	05/20/2022 1529	05/24/2022
006	SB87-1	Solid	05/20/2022 1454	05/24/2022
007	SB98-1	Solid	05/20/2022 1609	05/24/2022
008	SB181-2	Solid	05/20/2022 1021	05/24/2022
009	SB181-4	Solid	05/20/2022 1025	05/24/2022
010	SB97-1	Solid	05/20/2022 1557	05/24/2022
011	SB95-4	Solid	05/20/2022 1538	05/24/2022
012	SB87-2	Solid	05/20/2022 1459	05/24/2022
013	SB42-2	Solid	05/20/2022 1226	05/24/2022
014	SB77-2	Solid	05/20/2022 1351	05/24/2022
015	SB78-2	Solid	05/20/2022 1410	05/24/2022
016	SB48-2	Solid	05/20/2022 1614	05/24/2022
017	SB187-2	Solid	05/20/2022 0930	05/24/2022
018	SB43-2	Solid	05/20/2022 1243	05/24/2022
019	SB75-2	Solid	05/20/2022 1329	05/24/2022
020	SB97-2	Solid	05/20/2022 1602	05/24/2022

(20 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary
 Pace Analytical LLC
 Lot Number: XE24083
 Project Name: Homer Airport
 Project Number: WG1868854

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB75-1	Solid	PFBS	PFAS by ID	0.58	J	ug/kg	8
001	SB75-1	Solid	PFHxS	PFAS by ID	1.7	J	ug/kg	8
001	SB75-1	Solid	PFHpA	PFAS by ID	0.63	J	ug/kg	8
001	SB75-1	Solid	PFHxA	PFAS by ID	1.9	J	ug/kg	8
001	SB75-1	Solid	PFPeA	PFAS by ID	2.9		ug/kg	8
001	SB75-1	Solid	PFOS	PFAS by ID	2.9		ug/kg	8
002	SB77-1	Solid	6:2 FTS	PFAS by ID	1.2	JQ	ug/kg	10
002	SB77-1	Solid	PFBS	PFAS by ID	0.52	J	ug/kg	10
002	SB77-1	Solid	PFPeS	PFAS by ID	0.79	J	ug/kg	10
002	SB77-1	Solid	PFHxS	PFAS by ID	5.3		ug/kg	10
002	SB77-1	Solid	PFBA	PFAS by ID	2.1		ug/kg	10
002	SB77-1	Solid	PFHpA	PFAS by ID	3.0		ug/kg	10
002	SB77-1	Solid	PFHxA	PFAS by ID	5.9		ug/kg	10
002	SB77-1	Solid	PFNA	PFAS by ID	0.46	J	ug/kg	10
002	SB77-1	Solid	PFOA	PFAS by ID	2.5		ug/kg	10
002	SB77-1	Solid	PFPeA	PFAS by ID	6.3		ug/kg	10
002	SB77-1	Solid	PFOS	PFAS by ID	22		ug/kg	10
003	SB74-1	Solid	PFHxA	PFAS by ID	0.25	J	ug/kg	12
003	SB74-1	Solid	PFPeA	PFAS by ID	0.36	J	ug/kg	12
006	SB87-1	Solid	6:2 FTS	PFAS by ID	66	Q	ug/kg	18
006	SB87-1	Solid	PFBS	PFAS by ID	2.5		ug/kg	18
006	SB87-1	Solid	PFPeS	PFAS by ID	2.9		ug/kg	18
006	SB87-1	Solid	PFHxS	PFAS by ID	8.7		ug/kg	18
006	SB87-1	Solid	PFBA	PFAS by ID	3.9		ug/kg	18
006	SB87-1	Solid	PFHpA	PFAS by ID	6.4		ug/kg	18
006	SB87-1	Solid	PFHxA	PFAS by ID	24		ug/kg	18
006	SB87-1	Solid	PFOA	PFAS by ID	1.7	J	ug/kg	18
006	SB87-1	Solid	PFPeA	PFAS by ID	34		ug/kg	18
006	SB87-1	Solid	PFOS	PFAS by ID	1.6	J	ug/kg	18
007	SB98-1	Solid	8:2 FTS	PFAS by ID	4.0	JQ	ug/kg	20
007	SB98-1	Solid	6:2 FTS	PFAS by ID	43	Q	ug/kg	20
007	SB98-1	Solid	PFBS	PFAS by ID	2.5	J	ug/kg	20
007	SB98-1	Solid	PFHpS	PFAS by ID	1.6	J	ug/kg	20
007	SB98-1	Solid	PFPeS	PFAS by ID	3.1	J	ug/kg	20
007	SB98-1	Solid	PFHxS	PFAS by ID	22		ug/kg	20
007	SB98-1	Solid	PFBA	PFAS by ID	7.1	J	ug/kg	20
007	SB98-1	Solid	PFDA	PFAS by ID	1.6	J	ug/kg	20
007	SB98-1	Solid	PFHpA	PFAS by ID	9.9		ug/kg	20
007	SB98-1	Solid	PFHxA	PFAS by ID	17		ug/kg	20
007	SB98-1	Solid	PFNA	PFAS by ID	8.0	J	ug/kg	20
007	SB98-1	Solid	PFOA	PFAS by ID	7.9	J	ug/kg	20
007	SB98-1	Solid	PFPeA	PFAS by ID	26		ug/kg	20
007	SB98-1	Solid	PFOS	PFAS by ID	290		ug/kg	20

Detection Summary (Continued)

Lot Number: XE24083

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
008	SB181-2	Solid	6:2 FTS	PFAS by ID	8.9		ug/kg	22
008	SB181-2	Solid	PFBS	PFAS by ID	0.29	J	ug/kg	22
008	SB181-2	Solid	PFHpS	PFAS by ID	0.18	J	ug/kg	22
008	SB181-2	Solid	PFPeS	PFAS by ID	0.22	J	ug/kg	22
008	SB181-2	Solid	PFHxS	PFAS by ID	1.6		ug/kg	22
008	SB181-2	Solid	PFBA	PFAS by ID	0.93	J	ug/kg	22
008	SB181-2	Solid	PFHpA	PFAS by ID	0.77	J	ug/kg	22
008	SB181-2	Solid	PFHxA	PFAS by ID	2.8		ug/kg	22
008	SB181-2	Solid	PFOA	PFAS by ID	0.61	J	ug/kg	22
008	SB181-2	Solid	PFPeA	PFAS by ID	3.5		ug/kg	22
008	SB181-2	Solid	PFOS	PFAS by ID	3.8		ug/kg	22
009	SB181-4	Solid	6:2 FTS	PFAS by ID	12		ug/kg	24
009	SB181-4	Solid	PFBS	PFAS by ID	0.31	J	ug/kg	24
009	SB181-4	Solid	PFHpS	PFAS by ID	0.33	J	ug/kg	24
009	SB181-4	Solid	PFPeS	PFAS by ID	0.30	J	ug/kg	24
009	SB181-4	Solid	PFHxS	PFAS by ID	2.2		ug/kg	24
009	SB181-4	Solid	PFBA	PFAS by ID	0.88	J	ug/kg	24
009	SB181-4	Solid	PFHpA	PFAS by ID	0.65	J	ug/kg	24
009	SB181-4	Solid	PFHxA	PFAS by ID	2.9		ug/kg	24
009	SB181-4	Solid	PFOA	PFAS by ID	0.82	J	ug/kg	24
009	SB181-4	Solid	PFPeA	PFAS by ID	3.7		ug/kg	24
009	SB181-4	Solid	PFOS	PFAS by ID	6.8		ug/kg	24
010	SB97-1	Solid	8:2 FTS	PFAS by ID	0.77	JQ	ug/kg	26
010	SB97-1	Solid	6:2 FTS	PFAS by ID	9.8	Q	ug/kg	26
010	SB97-1	Solid	PFBS	PFAS by ID	0.74	J	ug/kg	26
010	SB97-1	Solid	PFPeS	PFAS by ID	0.98	J	ug/kg	26
010	SB97-1	Solid	PFHxS	PFAS by ID	7.3		ug/kg	26
010	SB97-1	Solid	PFBA	PFAS by ID	1.7	J	ug/kg	26
010	SB97-1	Solid	PFDA	PFAS by ID	1.0	J	ug/kg	26
010	SB97-1	Solid	PFHpA	PFAS by ID	3.0		ug/kg	26
010	SB97-1	Solid	PFHxA	PFAS by ID	5.0		ug/kg	26
010	SB97-1	Solid	PFNA	PFAS by ID	3.1		ug/kg	26
010	SB97-1	Solid	PFOA	PFAS by ID	3.2		ug/kg	26
010	SB97-1	Solid	PFPeA	PFAS by ID	7.1		ug/kg	26
010	SB97-1	Solid	PFOS	PFAS by ID	100		ug/kg	26

(78 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-001
Description: SB75-1	Matrix: Solid
Date Sampled: 05/20/2022 1324	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 34.5 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1719	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	5.0	0.69	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	5.0	0.77	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	5.0	0.54	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		5.0	0.72	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		5.0	0.87	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		5.0	0.99	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.58	J	2.5	0.33	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.5	0.56	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.5	0.55	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.5	0.47	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.7	J	2.5	0.44	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.5	1.0	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.5	0.40	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.63	J	2.5	0.36	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	1.9	J	2.5	0.46	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.5	0.37	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.5	0.53	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	2.9		2.5	0.40	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.5	0.47	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.5	0.46	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.9		2.5	0.89	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	299	25-150
13C2_6:2FTS	N	270	25-150
13C2_8:2FTS	N	338	25-150
13C2_PFDaA		85	25-150
13C2_PFTeDA		55	25-150
13C3_PFBs		79	25-150
13C3_PFHxS		87	25-150
13C4_PFBa		76	25-150
13C4_PFHpA		84	25-150
13C5_PFHxA		80	25-150
13C5_PFPeA		84	25-150
13C6_PFDa		92	25-150
13C7_PFUdA		86	25-150
13C8_PFOA		76	25-150
13C8_PFOs		79	25-150
13C8_PFOsA		72	10-150
13C9_PFNa		86	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-001
Description: SB75-1	Matrix: Solid
Date Sampled: 05/20/2022 1324	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 34.5 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		101	25-150
d-MeFOSA		58	10-150
d3-MeFOSAA		98	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

Pace Analytical Services, LLC (formerly Shealy Environmental Services, Inc.)
 106 Vantage Point Drive West Columbia, SC 29172 (803) 791-9700 Fax (803) 791-9111 www.pacelabs.com

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-002
Description: SB77-1	Matrix: Solid
Date Sampled: 05/20/2022 1342	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 45.2 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1729	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.8	0.51	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	1.2	JQ	3.8	0.57	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.8	0.41	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	3.8	0.54	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.8	0.65	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	3.8	0.74	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.52	J	1.9	0.25	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.9	0.42	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.9	0.41	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.79	J	1.9	0.35	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	5.3		1.9	0.33	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	2.1		1.9	0.78	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	3.0		1.9	0.27	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	5.9		1.9	0.35	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.46	J	1.9	0.28	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	2.5		1.9	0.40	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	6.3		1.9	0.30	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.9	0.36	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	22		1.9	0.67	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	344	25-150
13C2_6:2FTS	N	306	25-150
13C2_8:2FTS	N	460	25-150
13C2_PFDaA		145	25-150
13C2_PFTeDA		98	25-150
13C3_PFBs		113	25-150
13C3_PFHxS		128	25-150
13C4_PFBa		115	25-150
13C4_PFHpA		119	25-150
13C5_PFHxA		103	25-150
13C5_PFPeA		121	25-150
13C6_PFDa		147	25-150
13C7_PFUdA		149	25-150
13C8_PFOA		119	25-150
13C8_PFOs		124	25-150
13C8_PFOsA		120	10-150
13C9_PFNa		131	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-002
Description: SB77-1	Matrix: Solid
Date Sampled: 05/20/2022 1342	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 45.2 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	196	25-150
d-MeFOSA		93	10-150
d3-MeFOSAA	N	188	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-003
Description: SB74-1	Matrix: Solid
Date Sampled: 05/20/2022 1301	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 86.6 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1740	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.0	0.27	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.0	0.30	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.22	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.0	0.29	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.39	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.0	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.0	0.17	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.0	0.41	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.0	0.17	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.0	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.25	J	1.0	0.18	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.0	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.36	J	1.0	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.0	0.35	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		125	25-150
13C2_6:2FTS		114	25-150
13C2_8:2FTS	N	181	25-150
13C2_PFDaA		127	25-150
13C2_PFTeDA		100	25-150
13C3_PFBS		95	25-150
13C3_PFHxS		103	25-150
13C4_PFBA		97	25-150
13C4_PFHpA		107	25-150
13C5_PFHxA		101	25-150
13C5_PFPeA		110	25-150
13C6_PFDA		114	25-150
13C7_PFUdA		132	25-150
13C8_PFOA		102	25-150
13C8_PFOS		122	25-150
13C8_PFOSA		94	10-150
13C9_PFNA		105	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-003
Description: SB74-1	Matrix: Solid
Date Sampled: 05/20/2022 1301	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 86.6 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	156	25-150
d-MeFOSA		95	10-150
d3-MeFOSAA		134	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-004
Description: SB94-1	Matrix: Solid
Date Sampled: 05/20/2022 1518	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 39.7 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1750	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.2	0.58	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	4.2	0.65	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.2	0.46	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	4.2	0.61	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.2	0.74	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.2	0.84	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.1	0.28	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.1	0.47	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.1	0.47	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.1	0.39	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.1	0.88	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.1	0.33	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.1	0.30	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.1	0.39	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.1	0.32	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.1	0.45	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.1	0.34	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.1	0.40	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.1	0.36	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.1	0.39	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.1	0.75	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	304	25-150
13C2_6:2FTS	N	261	25-150
13C2_8:2FTS	N	343	25-150
13C2_PFDaA		105	25-150
13C2_PFTeDA		75	25-150
13C3_PFBS		96	25-150
13C3_PFHxS		113	25-150
13C4_PFBA		89	25-150
13C4_PFHpA		105	25-150
13C5_PFHxA		95	25-150
13C5_PFPeA		105	25-150
13C6_PFDA		111	25-150
13C7_PFUdA		111	25-150
13C8_PFOA		97	25-150
13C8_PFOS		108	25-150
13C8_PFOSA		93	10-150
13C9_PFNA		109	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-004
Description: SB94-1	Matrix: Solid
Date Sampled: 05/20/2022 1518	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 39.7 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	151	25-150
d-MeFOSA		72	10-150
d3-MeFOSAA		146	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-005
Description: SB95-1	Matrix: Solid
Date Sampled: 05/20/2022 1529	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 42.4 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1822	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.1	0.56	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	4.1	0.62	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.1	0.44	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.1	0.59	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.1	0.71	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.1	0.80	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.0	0.27	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.0	0.45	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.0	0.45	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.0	0.38	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.0	0.85	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.0	0.32	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.0	0.29	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.0	0.38	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.0	0.30	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.0	0.43	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.0	0.32	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.0	0.38	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.0	0.38	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.0	0.72	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	219	25-150
13C2_6:2FTS	N	228	25-150
13C2_8:2FTS	N	235	25-150
13C2_PFDaA		105	25-150
13C2_PFTeDA		83	25-150
13C3_PFBs		91	25-150
13C3_PFHxS		99	25-150
13C4_PFBa		82	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		83	25-150
13C5_PFPeA		91	25-150
13C6_PFDa		107	25-150
13C7_PFUdA		120	25-150
13C8_PFOA		90	25-150
13C8_PFOs		98	25-150
13C8_PFOsA		83	10-150
13C9_PFNa		104	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-005
Description: SB95-1	Matrix: Solid
Date Sampled: 05/20/2022 1529	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 42.4 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		146	25-150
d-MeFOSA		84	10-150
d3-MeFOSAA		137	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-006
Description: SB87-1	Matrix: Solid
Date Sampled: 05/20/2022 1454	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 45.4 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1833	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.8	0.52	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	66	Q	3.8	0.58	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.8	0.41	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.8	0.55	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.8	0.66	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.8	0.75	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	2.5		1.9	0.25	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.9	0.42	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.9	0.42	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	2.9		1.9	0.35	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	8.7		1.9	0.33	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	3.9		1.9	0.78	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.9	0.30	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.9	0.33	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	6.4		1.9	0.27	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	24		1.9	0.35	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.9	0.28	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	1.7	J	1.9	0.40	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	34		1.9	0.30	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.9	0.36	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.9	0.32	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.9	0.35	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1.6	J	1.9	0.67	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	299	25-150
13C2_6:2FTS	N	250	25-150
13C2_8:2FTS	N	340	25-150
13C2_PFDaA		89	25-150
13C2_PFTeDA		58	25-150
13C3_PFBs		74	25-150
13C3_PFHxS		84	25-150
13C4_PFBa		75	25-150
13C4_PFHpA		84	25-150
13C5_PFHxA		75	25-150
13C5_PFPeA		81	25-150
13C6_PFDa		93	25-150
13C7_PFUdA		88	25-150
13C8_PFOA		77	25-150
13C8_PFOs		85	25-150
13C8_PFOsA		65	10-150
13C9_PFNa		86	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-006
Description: SB87-1	Matrix: Solid
Date Sampled: 05/20/2022 1454	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 45.4 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		112	25-150
d-MeFOSA		60	10-150
d3-MeFOSAA		100	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-007
Description: SB98-1	Matrix: Solid
Date Sampled: 05/20/2022 1609	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 48.2 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	5	06/05/2022 1844	MMM	05/26/2022 1446	43083
2	SOP SPE	PFAS by ID SOP	1	06/14/2022 2323	ASD	06/10/2022 1306	44515

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	4.0	JQ	18	2.5	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	43	Q	18	2.8	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	18	2.0	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	18	2.6	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		18	3.2	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	18	3.6	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	2.5	J	9.1	1.2	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		9.1	2.0	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	1.6	J	9.1	1.6	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		9.1	2.0	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		9.1	1.6	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	3.1	J	9.1	1.7	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	22		9.1	1.6	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	7.1	J	9.1	3.8	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	1.6	J	1.8	0.28	ug/kg	2
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND	Q	9.1	1.6	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	9.9		9.1	1.3	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	17		9.1	1.7	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	8.0	J	9.1	1.4	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	7.9	J	9.1	1.9	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	26		9.1	1.4	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		9.1	1.7	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND	Q	9.1	1.6	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		9.1	1.7	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	290		9.1	3.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	237	25-150	N	235	25-150
13C2_6:2FTS	N	245	25-150	N	234	25-150
13C2_8:2FTS	N	372	25-150	N	308	25-150
13C2_PFDa	N	153	25-150		92	25-150
13C2_PFTeDA		104	25-150		64	25-150
13C3_PFBs		114	25-150		79	25-150
13C3_PFHxS		115	25-150		79	25-150
13C4_PFBa		112	25-150		77	25-150
13C4_PFHpA		114	25-150		81	25-150
13C5_PFHxA		107	25-150		80	25-150
13C5_PFPeA		130	25-150		78	25-150
13C6_PFDa	N	156	25-150		92	25-150
13C7_PFUdA		146	25-150		97	25-150
13C8_PFOA		119	25-150		79	25-150
13C8_PFOs		120	25-150		78	25-150
13C8_PFOsA		117	10-150		79	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-007
Description: SB98-1	Matrix: Solid
Date Sampled: 05/20/2022 1609	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 48.2 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		135	25-150		86	25-150
d5-EtFOSAA	N	214	25-150		116	25-150
d-MeFOSA		101	10-150		61	10-150
d3-MeFOSAA	N	206	25-150		110	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-008
Description: SB181-2	Matrix: Solid
Date Sampled: 05/20/2022 1021	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 84.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1854	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.0	0.28	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	8.9		2.0	0.31	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.0	0.22	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.0	0.29	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.40	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	0.29	J	1.0	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.18	J	1.0	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.22	J	1.0	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.6		1.0	0.18	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	0.93	J	1.0	0.42	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.77	J	1.0	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	2.8		1.0	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.61	J	1.0	0.22	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	3.5		1.0	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	3.8		1.0	0.36	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		120	25-150
13C2_6:2FTS		110	25-150
13C2_8:2FTS		135	25-150
13C2_PFDaA		120	25-150
13C2_PFTeDA		103	25-150
13C3_PFBs		100	25-150
13C3_PFHxS		106	25-150
13C4_PFBa		96	25-150
13C4_PFHpA		101	25-150
13C5_PFHxA		90	25-150
13C5_PFPeA		110	25-150
13C6_PFDa		111	25-150
13C7_PFUdA		115	25-150
13C8_PFOA		99	25-150
13C8_PFOs		109	25-150
13C8_PFOsA		107	10-150
13C9_PFNa		108	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-008
Description: SB181-2	Matrix: Solid
Date Sampled: 05/20/2022 1021	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 84.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		142	25-150
d-MeFOSA		93	10-150
d3-MeFOSAA		124	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-009
Description: SB181-4	Matrix: Solid
Date Sampled: 05/20/2022 1025	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 86.2 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1905	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.1	0.28	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	12		2.1	0.32	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.1	0.22	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.1	0.30	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.1	0.36	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.1	0.41	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.31	J	1.0	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.33	J	1.0	0.18	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.0	0.23	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.30	J	1.0	0.19	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	2.2		1.0	0.18	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	0.88	J	1.0	0.43	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.0	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.65	J	1.0	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	2.9		1.0	0.19	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.0	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.82	J	1.0	0.22	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	3.7		1.0	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.0	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.0	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.0	0.19	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	6.8		1.0	0.37	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		103	25-150
13C2_6:2FTS		108	25-150
13C2_8:2FTS		121	25-150
13C2_PFDaA		132	25-150
13C2_PFTeDA		104	25-150
13C3_PFBs		96	25-150
13C3_PFHxS		102	25-150
13C4_PFBa		95	25-150
13C4_PFHpA		101	25-150
13C5_PFHxA		100	25-150
13C5_PFPeA		107	25-150
13C6_PFDa		111	25-150
13C7_PFUdA		117	25-150
13C8_PFOA		102	25-150
13C8_PFOs		102	25-150
13C8_PFOsA		94	10-150
13C9_PFNa		109	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-009
Description: SB181-4	Matrix: Solid
Date Sampled: 05/20/2022 1025	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 86.2 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		129	25-150
d-MeFOSA		95	10-150
d3-MeFOSAA		111	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-010
Description: SB97-1	Matrix: Solid
Date Sampled: 05/20/2022 1557	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 38.5 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1915	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	0.77	JQ	4.4	0.60	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	9.8	Q	4.4	0.67	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.4	0.47	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.4	0.63	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.4	0.76	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.4	0.86	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.74	J	2.2	0.29	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.2	0.49	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.2	0.48	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.98	J	2.2	0.41	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	7.3		2.2	0.39	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	1.7	J	2.2	0.91	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	1.0	J	2.2	0.35	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	3.0		2.2	0.31	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	5.0		2.2	0.40	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	3.1		2.2	0.33	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	3.2		2.2	0.46	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	7.1		2.2	0.35	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.2	0.41	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.2	0.40	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	100		2.2	0.78	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	275	25-150
13C2_6:2FTS	N	261	25-150
13C2_8:2FTS	N	334	25-150
13C2_PFDaA		110	25-150
13C2_PFTeDA		83	25-150
13C3_PFBs		94	25-150
13C3_PFHxS		105	25-150
13C4_PFBa		85	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		88	25-150
13C5_PFPeA		99	25-150
13C6_PFDa		112	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		99	25-150
13C8_PFOs		99	25-150
13C8_PFOsA		88	10-150
13C9_PFNa		106	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24083-010
Description: SB97-1	Matrix: Solid
Date Sampled: 05/20/2022 1557	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 38.5 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		147	25-150
d-MeFOSA		84	10-150
d3-MeFOSAA		138	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ43083-001

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/05/2022 1647
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/05/2022 1647
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/05/2022 1647
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/05/2022 1647
MeFOSA	ND		1	2.0	0.35	ug/kg	06/05/2022 1647
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/05/2022 1647
PFBS	ND		1	1.0	0.13	ug/kg	06/05/2022 1647
PFDS	ND		1	1.0	0.22	ug/kg	06/05/2022 1647
PFHpS	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFNS	ND		1	1.0	0.22	ug/kg	06/05/2022 1647
PFOSA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFPeS	ND		1	1.0	0.19	ug/kg	06/05/2022 1647
PFHxS	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFBA	ND		1	1.0	0.42	ug/kg	06/05/2022 1647
PFDA	ND		1	1.0	0.16	ug/kg	06/05/2022 1647
PFDaA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFHpA	ND		1	1.0	0.14	ug/kg	06/05/2022 1647
PFHxA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFNA	ND		1	1.0	0.15	ug/kg	06/05/2022 1647
PFOA	ND		1	1.0	0.21	ug/kg	06/05/2022 1647
PFPeA	ND		1	1.0	0.16	ug/kg	06/05/2022 1647
PFTeDA	ND		1	1.0	0.19	ug/kg	06/05/2022 1647
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/05/2022 1647
PFUdA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFOS	ND		1	1.0	0.36	ug/kg	06/05/2022 1647

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		110	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		88	25-150
13C2_PFDaA		103	25-150
13C2_PFTeDA		101	25-150
13C3_PFBs		101	25-150
13C3_PFHxS		106	25-150
13C4_PFBa		106	25-150
13C4_PFHpA		112	25-150
13C5_PFHxA		94	25-150
13C5_PFPeA		106	25-150
13C6_PFDa		113	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		96	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43083-001

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		111	25-150
13C8_PFOA		88	10-150
13C9_PFOA		109	25-150
d5-EtFOA		104	25-150
d-MeFOA		75	10-150
d3-MeFOA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43083-002

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.6		1	81	50-150	06/07/2022 0027
6:2 FTS	1.9	1.8		1	95	50-150	06/07/2022 0027
4:2 FTS	1.9	1.4		1	73	50-150	06/07/2022 0027
EtFOSAA	2.0	2.0		1	98	50-150	06/07/2022 0027
MeFOSA	2.0	2.1		1	104	50-150	06/07/2022 0027
MeFOSAA	2.0	1.8		1	90	50-150	06/07/2022 0027
PFBS	1.8	1.7		1	98	50-150	06/07/2022 0027
PFDS	1.9	1.9		1	101	50-150	06/07/2022 0027
PFHpS	1.9	1.8		1	95	50-150	06/07/2022 0027
PFNS	1.9	1.9		1	99	50-150	06/07/2022 0027
PFOSA	2.0	2.0		1	98	50-150	06/07/2022 0027
PFPeS	1.9	1.6		1	85	50-150	06/07/2022 0027
PFHxS	1.8	1.9		1	102	50-150	06/07/2022 0027
PFBA	2.0	2.3		1	117	50-150	06/07/2022 0027
PFDA	2.0	1.6		1	78	50-150	06/07/2022 0027
PFDaA	2.0	1.7		1	83	50-150	06/07/2022 0027
PFHpA	2.0	2.0		1	99	50-150	06/07/2022 0027
PFHxA	2.0	1.8		1	92	50-150	06/07/2022 0027
PFNA	2.0	1.7		1	85	50-150	06/07/2022 0027
PFOA	2.0	1.8		1	90	50-150	06/07/2022 0027
PFPeA	2.0	1.9		1	93	50-150	06/07/2022 0027
PFTeDA	2.0	2.0		1	102	50-150	06/07/2022 0027
PFTTrDA	2.0	1.8		1	88	50-150	06/07/2022 0027
PFUdA	2.0	1.9		1	93	50-150	06/07/2022 0027
PFOS	1.9	1.7		1	93	50-150	06/07/2022 0027

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		139	25-150
13C2_6:2FTS		132	25-150
13C2_8:2FTS	N	154	25-150
13C2_PFDaA		138	25-150
13C2_PFTeDA		130	25-150
13C3_PFBs		130	25-150
13C3_PFHxS		131	25-150
13C4_PFBa		134	25-150
13C4_PFHpA		119	25-150
13C5_PFHxA		124	25-150
13C5_PFPeA		126	25-150
13C6_PFDa	N	154	25-150
13C7_PFUdA		134	25-150
13C8_PFOA		141	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43083-002

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		141	25-150
13C8_PFOA		132	10-150
13C9_PFOA		130	25-150
d5-EtFOSAA		122	25-150
d-MeFOA		109	10-150
d3-MeFOSAA		137	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44515-001

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
PFDA	ND		1	1.0	0.16	ug/kg	06/14/2022 2144
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		110	25-150				
13C2_6:2FTS		128	25-150				
13C2_8:2FTS		114	25-150				
13C2_PFDaA		115	25-150				
13C2_PFTeDA		116	25-150				
13C3_PFBs		117	25-150				
13C3_PFHxS		116	25-150				
13C4_PFBa		118	25-150				
13C4_PFHpA		114	25-150				
13C5_PFHxA		115	25-150				
13C5_PFPeA		117	25-150				
13C6_PFDA		117	25-150				
13C7_PFUdA		117	25-150				
13C8_PFOA		113	25-150				
13C8_PFOS		116	25-150				
13C8_PFOsA		111	10-150				
13C9_PFNAs		113	25-150				
d5-EtFOSAA		118	25-150				
d-MeFOSA		86	10-150				
d3-MeFOSAA		115	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44515-002

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
PFDA	2.0	2.0		1	102	50-150	06/14/2022 2155
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		97	25-150				
13C2_6:2FTS		105	25-150				
13C2_8:2FTS		97	25-150				
13C2_PFDaA		99	25-150				
13C2_PFTeDA		99	25-150				
13C3_PFBs		102	25-150				
13C3_PFHxS		104	25-150				
13C4_PFBa		102	25-150				
13C4_PFHpA		100	25-150				
13C5_PFHxA		105	25-150				
13C5_PFPeA		101	25-150				
13C6_PFDA		101	25-150				
13C7_PFUdA		105	25-150				
13C8_PFOA		99	25-150				
13C8_PFOS		104	25-150				
13C8_PFOsA		98	10-150				
13C9_PFNAs		103	25-150				
d5-EtFOSAA		101	25-150				
d-MeFOSA		85	10-150				
d3-MeFOSAA		99	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134029

Client: BGES, Inc. **Report to Contact:** Jayne Martin **Telephone No. / E-mail:** 907-614-2906 **Quota No.:** 06107286

Address: 1042 E 6th Ave **Sampler's Signature:** [Signature] **Analysis (Attach list if more space is needed):** [Blank] **Page:** 3 of 18

City: Anchorage **State:** AK **Zip Code:** 99501 **Printed Name:** Sam Bundy

Project Name: Homer Airport **Project No.:** [Blank]

Sample ID / Description <small>(Containers for each sample may be combined on one line.)</small>	Collection Date(s)	Collection Time (M:SS)	Matrix	No. of Containers by Preservative Type											Remarks / Cooler I.D.					
				Acetic	Aspiric	Formic	None	Other	123024	143024	153024	163024	173024	183024		193024				
SB75-1	5-20-22	1324	G	X															X	
SB77-1	↓	1342	G	X															X	
SB74-1		1301	G	X															X	
SB94-1		1518	G	X															X	
SB95-1		1529	G	X															X	
SB87-1		1454	G	X															X	
SB98-1		1609	G	X															X	
SB181-2		1021	G	X															X	
SB181-4		1025	G	X															X	
SB97-1		1557	G	X															X	

Turn Around Time Required (Prior lab approval required for expedited TAT): Standard Rush (Specify)

Sample Disposal: Return to Client Disposal by Lab

Possible Hazard Identification: Non-Hazard Flammable Skin Irritant Poison Unknown

QC Requirements (Specify): Level II

1. Relinquished by [Signature]	Date: 5/23/22	Time: 0830	1. Received by	Date:	Time:
2. Relinquished by	Date:	Time:	2. Received by	Date:	Time:
3. Relinquished by	Date:	Time:	3. Received by	Date:	Time:
4. Relinquished by: <u>Pell Ex</u>	Date: 5/24/22	Time: 1535	4. Laboratory received by: [Signature]	Date: 5/24/22	Time: 1535

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAR USE ONLY: Received on ice (Circle) Yes No **Receipt Temp.:** 4.2 °C **Temp Blank:** Y N

DISTRIBUTION: WHITE & YELLOW-return to laboratory with Sample(s); PINK-Field/Client Copy

Document Number: ME605N2-01

PACE ANALYTICAL SERVICES, LLC



PACE ANALYTICAL SERVICES, LLC
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 Telephone No. 803-791-4700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134028

Client: **BGES, Inc.** Address: **1042 E 6th Ave** City: **Anchorage** State: **AK** Zip Code: **99501**

Project Name: **Homer Airport** Project No.: [Blank]

Report to Contact: **Joyce Martin** Telephone No. / E-mail: **907-644-2400 / TAYLOR@BGES.INC.COM**

Analyst's Signature: [Signature] Analyst: [Blank] Page: **4 of 18**

Sample ID / Description: [Blank] (Comments for each sample may be obtained on unit file.)

Collection Date(s): [Blank] Collection Time (Military): [Blank]

Matrix: [Blank] No. of Containers by Preservative Type: [Blank]

Retention Time: [Blank] Disposal by Lab: [Blank] Possible Hazard Identification: [Blank]

Sample ID	Collection Date	Collection Time	Matrix	No. of Containers by Preservative Type	Retention Time	Disposal by Lab	Possible Hazard Identification	QC Requirements (Specify)
SB95-4	5-20-22	1538	X	6	6	X	ASB 5.3 Table B	Hold
SB87-2		1459	X	6	6	X		Hold
SB42-2		1226	X	6	6	X		Hold
SB77-2		1351	X	6	6	X		Hold
SB78-2		1410	X	6	6	X		Hold
SB98-2		1614	X	6	6	X		Hold
SB187-2		0430	X	6	6	X		Hold
SB43-2		1243	X	6	6	X		Hold
SB75-2		1329	X	6	6	X		Hold
SB97-2		1602	X	6	6	X		Hold

QC Requirements (Specify): [Blank]

1. Relinquished by: [Signature] Date: **5/23/22** Time: **0530**

2. Relinquished by: [Blank] Date: [Blank] Time: [Blank]

3. Relinquished by: [Blank] Date: [Blank] Time: [Blank]

4. Relinquished by: **FedEx** Date: **5/24/22** Time: **1535**

Note: All samples are retained for four weeks from receipt unless other arrangements are made.

LAB USE ONLY: Received on ice (circles) (Yes) No Ice Pack Receipt Temp: **4.2** °C

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Samples Receipt Checklist (SRC) (ME0018C-15)

Issuing Authority: Pace ENV - WCOL

Revised:9/29/2020

Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGES Inc

Cooler Inspected by/date: KDRW / 05/24/2022

Lot #: XE24083

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: <u>NA</u>	Chlorine Strip ID: <u>NA</u> Tested by: <u>NA</u>
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: <u>22-480</u>	
4.2 / 4.2 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: <u>6</u> IR Gun Correction Factor: <u>0</u> °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pca-size" (1/8" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₃ /TKN/cyanide/phenol/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) <u>NA</u> were received incorrectly preserved and were adjusted accordingly in sample receiving with <u>NA</u> mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # <u>NA</u>	
Time of preservation <u>NA</u> . If more than one preservative is needed, please note in the comments below.	
Sample(s) <u>NA</u> were received with bubbles >6 mm in diameter.	
Sample(s) <u>NA</u> were received with TRC > 0.5 mg/L (If #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: <u>NA</u>	
SR barcode labels applied by: <u>KDRW</u> Date: <u>05/24/2022</u>	

Comments:



Report of Analysis

Pace Analytical LLC
12065 Lebanon Rd.
Mt. Juliet, TN 37122
Attention: Jared Starkey

Project Name: Homer Airport
Project Number: WG1868854
Lot Number: **XE24082**
Date Completed: 06/27/2022

07/05/2022 12:44 PM
Approved and released by:
Project Manager II: **Edward Barnett**



The electronic signature above is the equivalent of a handwritten signature.
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PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Case Narrative Pace Analytical LLC Lot Number: XE24082

This Report of Analysis contains the analytical result(s) for the sample(s) listed on the Sample Summary following this Case Narrative. The sample receiving date is documented in the header information associated with each sample.

All results listed in this report relate only to the samples that are contained within this report. Where sampling is conducted by the client, results relate to the accuracy of the information provided, and as the samples are received.

Sample receipt, sample analysis, and data review have been performed in accordance with the most current approved The NELAC Institute (TNI) standards, the Pace Analytical Services, LLC ("Pace") Laboratory Quality Manual, standard operating procedures (SOPs), and Pace policies. Any exceptions to the TNI standards, the Laboratory Quality Manual, SOPs or policies are qualified on the results page or discussed below.

Pace is a TNI accredited laboratory; however, the following analyses are currently not listed on our TNI scope of accreditation: Drinking Water: VOC (excluding BTEX, MTBE, Naphthalene, & 1,2-dichloroethane) EPA 524.2, E. coli and Total coliforms SM 9223 B-2004, Solid Chemical Material: TOC Walkley-Black, Biological Tissue: All, Non-Potable Water: SGT-HEM EPA 1664B, Silica EPA 200.7, Boron, Calcium, Silicon, Strontium EPA 200.8, Bicarbonate, Carbonate, and Hydroxide Alkalinity SM 2320 B-2011, SM 9221 C E-2006 & SM 9222D-2006, Strontium SW-846 6010D, VOC SM 6200 B-2011, Fecal Coliform Colilert-18.

Where applicable, all soil sample results (including LOQ and DL if requested) are corrected for dry weight unless flagged with a "W" qualifier.

If you have any questions regarding this report, please contact the Pace Project Manager listed on the cover page.

PFAS

Surrogate recovery for the following samples was outside the upper control limit: XE24082-001, XE24082-002, XE24082-003, XE24082-004, XE24082-005, XE24082-007, XE24082-010. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following samples was outside the upper control limit: XE24082-004, XE24082-011, XE24082-015, XE24082-016, XE24082-017, XE24082-018, XE24082-019. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

Surrogate recovery for the following sample was outside control limits: XE24082-020 (MS/MSD). Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

PACE ANALYTICAL SERVICES, LLC

SC DHEC No: 32010001

NELAC No: E87653

NC DENR No: 329

NC Field Parameters No: 5639

Surrogate recovery for the following samples was outside the upper control limit: XE24082-006. This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

The 4:2 surrogate recovery for the following sample was outside the upper control limit: XE24082-008.

The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for prep batch 43083 exceeded acceptance criteria for 8:2 FTS and PFDA surrogates/EIS. The associated target analytes passed; therefore, the data were reported.

Surrogate recovery for the following samples was outside control limits: XE24013-001, XE24082-002, XE24082-006, XE24082-008, XE24083-002, XE24083-006, XE24083-010. Re-extraction and/or re-analysis was performed with concurring results. The original analysis has been reported.

Surrogate recovery for the following samples was outside control limits: XE24082-005, XE24082-007. Re-extraction and/or re-analysis was performed outside of holding time with acceptable results.

The following sample required a dilution which was performed outside of the analytical holding time: XE24082-008.

PACE ANALYTICAL SERVICES, LLC

Sample Summary
Pace Analytical LLC
Lot Number: XE24082
Project Name: Homer Airport
Project Number: WG1868854

Sample Number	Sample ID	Matrix	Date Sampled	Date Received
001	SB41-1	Solid	05/20/2022 1206	05/24/2022
002	SB76-1	Solid	05/20/2022 1335	05/24/2022
003	SB78-1	Solid	05/20/2022 1404	05/24/2022
004	SB39-1	Solid	05/20/2022 1140	05/24/2022
005	SB42-1	Solid	05/20/2022 1218	05/24/2022
006	SB40-1	Solid	05/20/2022 1150	05/24/2022
007	SB188-1	Solid	05/20/2022 1105	05/24/2022
008	SB43-1	Solid	05/20/2022 1238	05/24/2022
009	EB-520	Aqueous	05/20/2022 1628	05/24/2022
010	SB76-2	Solid	05/20/2022 1341	05/24/2022
011	SB85-3	Solid	05/20/2022 1438	05/24/2022
012	SB187-1	Solid	05/20/2022 0925	05/24/2022
013	SB42-3	Solid	05/20/2022 1230	05/24/2022
014	SB186-1	Solid	05/20/2022 1041	05/24/2022
015	SB88-1	Solid	05/20/2022 1505	05/24/2022
016	SB84-1	Solid	05/20/2022 1419	05/24/2022
017	SB86-1	Solid	05/20/2022 1443	05/24/2022
018	SB85-1	Solid	05/20/2022 1429	05/24/2022
019	SB96-1	Solid	05/20/2022 1542	05/24/2022
020	SB189-1	Solid	05/20/2022 1124	05/24/2022

(20 samples)

PACE ANALYTICAL SERVICES, LLC

Detection Summary

Pace Analytical LLC

Lot Number: XE24082

Project Name: Homer Airport

Project Number: WG1868854

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
001	SB41-1	Solid	PFHxS	PFAS by ID	1.3	J	ug/kg	11
002	SB76-1	Solid	6:2 FTS	PFAS by ID	11	Q	ug/kg	13
002	SB76-1	Solid	PFBS	PFAS by ID	1.4	J	ug/kg	13
002	SB76-1	Solid	PFHpS	PFAS by ID	0.88	J	ug/kg	13
002	SB76-1	Solid	PFPeS	PFAS by ID	2.3		ug/kg	13
002	SB76-1	Solid	PFHxS	PFAS by ID	13		ug/kg	13
002	SB76-1	Solid	PFBA	PFAS by ID	8.8		ug/kg	13
002	SB76-1	Solid	PFDA	PFAS by ID	0.77	J	ug/kg	13
002	SB76-1	Solid	PFHpA	PFAS by ID	14		ug/kg	13
002	SB76-1	Solid	PFHxA	PFAS by ID	12		ug/kg	13
002	SB76-1	Solid	PFNA	PFAS by ID	12		ug/kg	13
002	SB76-1	Solid	PFOA	PFAS by ID	19		ug/kg	13
002	SB76-1	Solid	PFPeA	PFAS by ID	15		ug/kg	13
002	SB76-1	Solid	PFOS	PFAS by ID	33		ug/kg	13
003	SB78-1	Solid	6:2 FTS	PFAS by ID	0.90	JQ	ug/kg	15
003	SB78-1	Solid	PFBS	PFAS by ID	0.60	J	ug/kg	15
003	SB78-1	Solid	PFHpS	PFAS by ID	0.62	J	ug/kg	15
003	SB78-1	Solid	PFPeS	PFAS by ID	1.3	J	ug/kg	15
003	SB78-1	Solid	PFHxS	PFAS by ID	11		ug/kg	15
003	SB78-1	Solid	PFBA	PFAS by ID	2.2		ug/kg	15
003	SB78-1	Solid	PFHpA	PFAS by ID	3.5		ug/kg	15
003	SB78-1	Solid	PFHxA	PFAS by ID	4.3		ug/kg	15
003	SB78-1	Solid	PFNA	PFAS by ID	0.78	J	ug/kg	15
003	SB78-1	Solid	PFOA	PFAS by ID	2.9		ug/kg	15
003	SB78-1	Solid	PFPeA	PFAS by ID	4.1		ug/kg	15
003	SB78-1	Solid	PFOS	PFAS by ID	28		ug/kg	15
004	SB39-1	Solid	PFBS	PFAS by ID	1.2	J	ug/kg	17
004	SB39-1	Solid	PFPeS	PFAS by ID	2.0	J	ug/kg	17
004	SB39-1	Solid	PFHxS	PFAS by ID	8.7		ug/kg	17
004	SB39-1	Solid	PFHpA	PFAS by ID	2.2		ug/kg	17
004	SB39-1	Solid	PFHxA	PFAS by ID	3.1		ug/kg	17
004	SB39-1	Solid	PFOA	PFAS by ID	1.4	J	ug/kg	17
004	SB39-1	Solid	PFPeA	PFAS by ID	3.1		ug/kg	17
004	SB39-1	Solid	PFOS	PFAS by ID	13		ug/kg	17
005	SB42-1	Solid	6:2 FTS	PFAS by ID	33	B	ug/kg	19
005	SB42-1	Solid	PFBS	PFAS by ID	0.79	J	ug/kg	19
005	SB42-1	Solid	PFHpS	PFAS by ID	3.7		ug/kg	19
005	SB42-1	Solid	PFPeS	PFAS by ID	1.1	J	ug/kg	19
005	SB42-1	Solid	PFHxS	PFAS by ID	9.7		ug/kg	19
005	SB42-1	Solid	PFBA	PFAS by ID	2.0		ug/kg	19
005	SB42-1	Solid	PFHpA	PFAS by ID	1.9		ug/kg	19
005	SB42-1	Solid	PFHxA	PFAS by ID	4.4		ug/kg	19
005	SB42-1	Solid	PFOA	PFAS by ID	5.3		ug/kg	19

Detection Summary (Continued)

Lot Number: XE24082

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
005	SB42-1	Solid	PFPeA	PFAS by ID	5.5		ug/kg	19
005	SB42-1	Solid	PFOS	PFAS by ID	4.4		ug/kg	19
006	SB40-1	Solid	6:2 FTS	PFAS by ID	2.0	JQ	ug/kg	21
006	SB40-1	Solid	PFBS	PFAS by ID	0.89	J	ug/kg	21
006	SB40-1	Solid	PFHpS	PFAS by ID	0.76	J	ug/kg	21
006	SB40-1	Solid	PFPeS	PFAS by ID	1.6	J	ug/kg	21
006	SB40-1	Solid	PFHxS	PFAS by ID	15		ug/kg	21
006	SB40-1	Solid	PFBA	PFAS by ID	1.8	J	ug/kg	21
006	SB40-1	Solid	PFHpA	PFAS by ID	1.8	J	ug/kg	21
006	SB40-1	Solid	PFHxA	PFAS by ID	2.9		ug/kg	21
006	SB40-1	Solid	PFNA	PFAS by ID	0.84	J	ug/kg	21
006	SB40-1	Solid	PFOA	PFAS by ID	2.4	J	ug/kg	21
006	SB40-1	Solid	PFPeA	PFAS by ID	3.3		ug/kg	21
006	SB40-1	Solid	PFOS	PFAS by ID	46		ug/kg	21
007	SB188-1	Solid	6:2 FTS	PFAS by ID	33	B	ug/kg	23
007	SB188-1	Solid	PFBS	PFAS by ID	0.95	J	ug/kg	23
007	SB188-1	Solid	PFHpS	PFAS by ID	7.9		ug/kg	23
007	SB188-1	Solid	PFPeS	PFAS by ID	0.72	J	ug/kg	23
007	SB188-1	Solid	PFHxS	PFAS by ID	6.3		ug/kg	23
007	SB188-1	Solid	PFBA	PFAS by ID	2.0		ug/kg	23
007	SB188-1	Solid	PFHpA	PFAS by ID	1.2		ug/kg	23
007	SB188-1	Solid	PFHxA	PFAS by ID	5.4		ug/kg	23
007	SB188-1	Solid	PFOA	PFAS by ID	4.3		ug/kg	23
007	SB188-1	Solid	PFPeA	PFAS by ID	7.0		ug/kg	23
007	SB188-1	Solid	PFOS	PFAS by ID	33		ug/kg	23
008	SB43-1	Solid	8:2 FTS	PFAS by ID	6.3	Q	ug/kg	25
008	SB43-1	Solid	6:2 FTS	PFAS by ID	22	Q	ug/kg	25
008	SB43-1	Solid	PFBS	PFAS by ID	2.4	J	ug/kg	25
008	SB43-1	Solid	PFHpS	PFAS by ID	4.4		ug/kg	25
008	SB43-1	Solid	PFOSA	PFAS by ID	1.2	J	ug/kg	25
008	SB43-1	Solid	PFPeS	PFAS by ID	4.4		ug/kg	25
008	SB43-1	Solid	PFHxS	PFAS by ID	31		ug/kg	25
008	SB43-1	Solid	PFBA	PFAS by ID	3.5		ug/kg	25
008	SB43-1	Solid	PFDA	PFAS by ID	5.4		ug/kg	25
008	SB43-1	Solid	PFHpA	PFAS by ID	6.4		ug/kg	25
008	SB43-1	Solid	PFHxA	PFAS by ID	11		ug/kg	25
008	SB43-1	Solid	PFNA	PFAS by ID	14		ug/kg	25
008	SB43-1	Solid	PFOA	PFAS by ID	12		ug/kg	25
008	SB43-1	Solid	PFPeA	PFAS by ID	17		ug/kg	25
008	SB43-1	Solid	PFUdA	PFAS by ID	1.2	J	ug/kg	25
008	SB43-1	Solid	PFOS	PFAS by ID	1500	H	ug/kg	25
009	EB-520	Aqueous	PFBA	PFAS by ID	1.8	J	ng/L	27
010	SB76-2	Solid	PFHxS	PFAS by ID	0.23	J	ug/kg	29
010	SB76-2	Solid	PFHxA	PFAS by ID	0.21	J	ug/kg	29
010	SB76-2	Solid	PFPeA	PFAS by ID	0.18	J	ug/kg	29
010	SB76-2	Solid	PFOS	PFAS by ID	0.69	J	ug/kg	29
012	SB187-1	Solid	6:2 FTS	PFAS by ID	7.5		ug/kg	33
012	SB187-1	Solid	PFBS	PFAS by ID	0.31	J	ug/kg	33

Detection Summary (Continued)

Lot Number: XE24082

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
012	SB187-1	Solid	PFHpS	PFAS by ID	0.48	J	ug/kg	33
012	SB187-1	Solid	PFPeS	PFAS by ID	0.38	J	ug/kg	33
012	SB187-1	Solid	PFHxS	PFAS by ID	4.8		ug/kg	33
012	SB187-1	Solid	PFBA	PFAS by ID	1.2		ug/kg	33
012	SB187-1	Solid	PFHpA	PFAS by ID	1.1		ug/kg	33
012	SB187-1	Solid	PFHxA	PFAS by ID	3.6		ug/kg	33
012	SB187-1	Solid	PFOA	PFAS by ID	1.6		ug/kg	33
012	SB187-1	Solid	PFPeA	PFAS by ID	5.2		ug/kg	33
012	SB187-1	Solid	PFOS	PFAS by ID	3.7		ug/kg	33
013	SB42-3	Solid	6:2 FTS	PFAS by ID	10		ug/kg	35
013	SB42-3	Solid	PFBS	PFAS by ID	0.29	J	ug/kg	35
013	SB42-3	Solid	PFHpS	PFAS by ID	0.87	J	ug/kg	35
013	SB42-3	Solid	PFPeS	PFAS by ID	0.32	J	ug/kg	35
013	SB42-3	Solid	PFHxS	PFAS by ID	2.8		ug/kg	35
013	SB42-3	Solid	PFBA	PFAS by ID	0.67	J	ug/kg	35
013	SB42-3	Solid	PFHpA	PFAS by ID	0.57	J	ug/kg	35
013	SB42-3	Solid	PFHxA	PFAS by ID	1.6		ug/kg	35
013	SB42-3	Solid	PFOA	PFAS by ID	1.1		ug/kg	35
013	SB42-3	Solid	PFPeA	PFAS by ID	2.1		ug/kg	35
013	SB42-3	Solid	PFOS	PFAS by ID	2.0		ug/kg	35
014	SB186-1	Solid	6:2 FTS	PFAS by ID	23		ug/kg	37
014	SB186-1	Solid	PFBS	PFAS by ID	0.97	J	ug/kg	37
014	SB186-1	Solid	PFHpS	PFAS by ID	4.4		ug/kg	37
014	SB186-1	Solid	PFPeS	PFAS by ID	0.93	J	ug/kg	37
014	SB186-1	Solid	PFHxS	PFAS by ID	7.1		ug/kg	37
014	SB186-1	Solid	PFBA	PFAS by ID	2.7		ug/kg	37
014	SB186-1	Solid	PFHpA	PFAS by ID	1.5		ug/kg	37
014	SB186-1	Solid	PFHxA	PFAS by ID	6.4		ug/kg	37
014	SB186-1	Solid	PFNA	PFAS by ID	0.36	J	ug/kg	37
014	SB186-1	Solid	PFOA	PFAS by ID	4.7		ug/kg	37
014	SB186-1	Solid	PFPeA	PFAS by ID	9.4		ug/kg	37
014	SB186-1	Solid	PFOS	PFAS by ID	85		ug/kg	37
015	SB88-1	Solid	PFBS	PFAS by ID	2.0	J	ug/kg	39
015	SB88-1	Solid	PFPeS	PFAS by ID	1.5	J	ug/kg	39
015	SB88-1	Solid	PFHxS	PFAS by ID	1.3	J	ug/kg	39
015	SB88-1	Solid	PFBA	PFAS by ID	8.1		ug/kg	39
015	SB88-1	Solid	PFHpA	PFAS by ID	4.7		ug/kg	39
015	SB88-1	Solid	PFHxA	PFAS by ID	35		ug/kg	39
015	SB88-1	Solid	PFPeA	PFAS by ID	46		ug/kg	39
015	SB88-1	Solid	PFOS	PFAS by ID	2.2	J	ug/kg	39
017	SB86-1	Solid	6:2 FTS	PFAS by ID	1.1	JQ	ug/kg	43
017	SB86-1	Solid	PFBS	PFAS by ID	0.29	J	ug/kg	43
017	SB86-1	Solid	PFPeS	PFAS by ID	0.54	J	ug/kg	43
017	SB86-1	Solid	PFHxS	PFAS by ID	3.3		ug/kg	43
017	SB86-1	Solid	PFHpA	PFAS by ID	0.66	J	ug/kg	43
017	SB86-1	Solid	PFHxA	PFAS by ID	1.1	J	ug/kg	43
017	SB86-1	Solid	PFNA	PFAS by ID	0.35	J	ug/kg	43
017	SB86-1	Solid	PFOA	PFAS by ID	0.84	J	ug/kg	43

Detection Summary (Continued)

Lot Number: XE24082

Sample	Sample ID	Matrix	Parameter	Method	Result	Q	Units	Page
017	SB86-1	Solid	PFPeA	PFAS by ID	1.1	J	ug/kg	43
017	SB86-1	Solid	PFOS	PFAS by ID	13		ug/kg	43
020	SB189-1	Solid	6:2 FTS	PFAS by ID	32	QS	ug/kg	49
020	SB189-1	Solid	PFBS	PFAS by ID	0.62	J	ug/kg	49
020	SB189-1	Solid	PFHpS	PFAS by ID	1.1		ug/kg	49
020	SB189-1	Solid	PFPeS	PFAS by ID	0.71	J	ug/kg	49
020	SB189-1	Solid	PFHxS	PFAS by ID	8.5	S	ug/kg	49
020	SB189-1	Solid	PFBA	PFAS by ID	2.2		ug/kg	49
020	SB189-1	Solid	PFDA	PFAS by ID	0.20	J	ug/kg	49
020	SB189-1	Solid	PFHpA	PFAS by ID	2.2		ug/kg	49
020	SB189-1	Solid	PFHxA	PFAS by ID	4.7		ug/kg	49
020	SB189-1	Solid	PFNA	PFAS by ID	1.3		ug/kg	49
020	SB189-1	Solid	PFOA	PFAS by ID	3.7		ug/kg	49
020	SB189-1	Solid	PFPeA	PFAS by ID	6.7		ug/kg	49
020	SB189-1	Solid	PFOS	PFAS by ID	69	S	ug/kg	49

(154 detections)

PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-001
Description: SB41-1	Matrix: Solid
Date Sampled: 05/20/2022 1206	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 36.2 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1613	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	5.3	0.72	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	5.3	0.81	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	5.3	0.57	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		5.3	0.76	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		5.3	0.92	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		5.3	1.0	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.6	0.34	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.6	0.59	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.6	0.46	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.6	0.58	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.6	0.47	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.6	0.49	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.3	J	2.6	0.46	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.6	1.1	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.6	0.42	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.6	0.46	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.6	0.38	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.6	0.49	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.6	0.39	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.6	0.56	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.6	0.42	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.6	0.50	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.6	0.45	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.6	0.49	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.6	0.94	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	252	25-150
13C2_6:2FTS	N	273	25-150
13C2_8:2FTS	N	366	25-150
13C2_PFDaA		84	25-150
13C2_PFTeDA		63	25-150
13C3_PFBs		79	25-150
13C3_PFHxS		83	25-150
13C4_PFBa		75	25-150
13C4_PFHpA		80	25-150
13C5_PFHxA		79	25-150
13C5_PFPeA		75	25-150
13C6_PFDa		54	25-150
13C7_PFUdA		92	25-150
13C8_PFOA		83	25-150
13C8_PFOs		84	25-150
13C8_PFOsA		74	10-150
13C9_PFNa		84	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-001
Description: SB41-1	Matrix: Solid
Date Sampled: 05/20/2022 1206	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 36.2 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		107	25-150
d-MeFOSA		64	10-150
d3-MeFOSAA		100	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-002
Description: SB76-1	Matrix: Solid
Date Sampled: 05/20/2022 1335	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 58.8 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1624	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.2	0.44	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	11	Q	3.2	0.49	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.2	0.34	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.2	0.46	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.2	0.55	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.2	0.63	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	1.4	J	1.6	0.21	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.6	0.35	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.88	J	1.6	0.28	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.6	0.35	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.6	0.28	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	2.3		1.6	0.30	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	13		1.6	0.28	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	8.8		1.6	0.66	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.77	J	1.6	0.25	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.6	0.28	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	14		1.6	0.23	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	12		1.6	0.29	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	12		1.6	0.24	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	19		1.6	0.34	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	15		1.6	0.25	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.6	0.30	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.6	0.27	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.6	0.29	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	33		1.6	0.57	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	253	25-150
13C2_6:2FTS	N	229	25-150
13C2_8:2FTS	N	316	25-150
13C2_PFDaA		97	25-150
13C2_PFTeDA		75	25-150
13C3_PFBs		82	25-150
13C3_PFHxS		85	25-150
13C4_PFBa		82	25-150
13C4_PFHpA		89	25-150
13C5_PFHxA		87	25-150
13C5_PFPeA		82	25-150
13C6_PFDa		97	25-150
13C7_PFUdA		102	25-150
13C8_PFOA		83	25-150
13C8_PFOs		83	25-150
13C8_PFOsA		87	10-150
13C9_PFNa		95	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-002
Description: SB76-1	Matrix: Solid
Date Sampled: 05/20/2022 1335	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 58.8 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		133	25-150
d-MeFOSA		68	10-150
d3-MeFOSAA		126	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-003
Description: SB78-1	Matrix: Solid
Date Sampled: 05/20/2022 1404	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 52.7 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1635	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.5	0.47	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	0.90	JQ	3.5	0.53	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.5	0.37	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.5	0.50	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.5	0.60	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.5	0.68	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.60	J	1.7	0.23	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.7	0.38	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.62	J	1.7	0.30	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.7	0.38	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.7	0.30	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	1.3	J	1.7	0.32	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	11		1.7	0.30	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	2.2		1.7	0.72	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.7	0.27	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.7	0.30	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	3.5		1.7	0.25	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	4.3		1.7	0.32	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.78	J	1.7	0.26	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	2.9		1.7	0.37	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	4.1		1.7	0.27	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.7	0.33	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.7	0.30	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.7	0.32	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	28		1.7	0.61	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	330	25-150
13C2_6:2FTS	N	278	25-150
13C2_8:2FTS	N	322	25-150
13C2_PFDaA		75	25-150
13C2_PFTeDA		54	25-150
13C3_PFBs		76	25-150
13C3_PFHxS		85	25-150
13C4_PFBa		60	25-150
13C4_PFHpA		81	25-150
13C5_PFHxA		80	25-150
13C5_PFPeA		70	25-150
13C6_PFDa		49	25-150
13C7_PFUdA		81	25-150
13C8_PFOA		80	25-150
13C8_PFOs		84	25-150
13C8_PFOsA		65	10-150
13C9_PFNa		76	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-003
Description: SB78-1	Matrix: Solid
Date Sampled: 05/20/2022 1404	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 52.7 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		92	25-150
d-MeFOSA		53	10-150
d3-MeFOSAA		92	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-004
Description: SB39-1	Matrix: Solid
Date Sampled: 05/20/2022 1140	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 37.8 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1646	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.4	0.61	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	4.4	0.68	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.4	0.48	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.4	0.64	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.4	0.77	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.4	0.87	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	1.2	J	2.2	0.29	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.2	0.49	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.2	0.49	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	2.0	J	2.2	0.41	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	8.7		2.2	0.39	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.2	0.92	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.2	0.35	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	2.2		2.2	0.32	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	3.1		2.2	0.41	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.2	0.33	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	1.4	J	2.2	0.47	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	3.1		2.2	0.35	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.2	0.42	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.2	0.41	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	13		2.2	0.79	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	272	25-150
13C2_6:2FTS	N	251	25-150
13C2_8:2FTS	N	308	25-150
13C2_PFDaA		66	25-150
13C2_PFTeDA		44	25-150
13C3_PFBs		69	25-150
13C3_PFHxS		79	25-150
13C4_PFBa		56	25-150
13C4_PFHpA		71	25-150
13C5_PFHxA		71	25-150
13C5_PFPeA		63	25-150
13C6_PFDa		74	25-150
13C7_PFUdA		71	25-150
13C8_PFOA		70	25-150
13C8_PFOs		76	25-150
13C8_PFOsA		62	10-150
13C9_PFNa		69	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-004
Description: SB39-1	Matrix: Solid
Date Sampled: 05/20/2022 1140	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 37.8 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		78	25-150
d-MeFOSA		51	10-150
d3-MeFOSAA		82	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-005
Description: SB42-1	Matrix: Solid
Date Sampled: 05/20/2022 1218	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 74.0 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1656	LAB	05/25/2022 1103	42904
2	SOP SPE	PFAS by ID SOP	1	06/14/2022 2217	ASD	06/10/2022 1306	44515

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.4	0.33	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	33	B	2.4	0.37	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.4	0.26	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.4	0.34	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.4	0.41	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.4	0.47	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.79	J	1.2	0.15	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	3.7		1.2	0.21	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.26	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	1.1	J	1.2	0.22	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	9.7		1.2	0.21	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	2.0		1.2	0.49	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.19	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	1.9		1.2	0.17	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	4.4		1.2	0.22	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.2	0.18	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	5.3		1.2	0.25	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	5.5		1.2	0.19	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-undecanoic acid (PFUDA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	4.4		1.2	0.42	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	209	25-150		136	25-150
13C2_6:2FTS	N	204	25-150		128	25-150
13C2_8:2FTS	N	321	25-150	N	175	25-150
13C2_PFDaA		108	25-150		110	25-150
13C2_PFTeDA		76	25-150		81	25-150
13C3_PFBs		94	25-150		81	25-150
13C3_PFHxS		97	25-150		84	25-150
13C4_PFBa		93	25-150		85	25-150
13C4_PFHpA		97	25-150		84	25-150
13C5_PFHxA		96	25-150		84	25-150
13C5_PFPeA		96	25-150		81	25-150
13C6_PFDaA		109	25-150		94	25-150
13C7_PFUdA		114	25-150		108	25-150
13C8_PFOA		93	25-150		81	25-150
13C8_PFOs		101	25-150		85	25-150
13C8_PFOsA		99	10-150		88	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-005
Description: SB42-1	Matrix: Solid
Date Sampled: 05/20/2022 1218	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 74.0 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		104	25-150		88	25-150
d5-EtFOSAA		142	25-150		129	25-150
d-MeFOSA		83	10-150		67	10-150
d3-MeFOSAA		136	25-150		117	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-006
Description: SB40-1	Matrix: Solid
Date Sampled: 05/20/2022 1150	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 36.7 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/05/2022 1708	MMM	05/26/2022 1446	43083

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.9	0.67	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	2.0	JQ	4.9	0.75	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.9	0.53	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.9	0.71	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.9	0.85	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.9	0.97	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.89	J	2.5	0.32	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.5	0.55	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.76	J	2.5	0.43	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.5	0.54	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	1.6	J	2.5	0.46	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	15		2.5	0.43	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	1.8	J	2.5	1.0	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.5	0.39	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	1.8	J	2.5	0.35	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	2.9		2.5	0.45	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.84	J	2.5	0.37	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	2.4	J	2.5	0.52	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	3.3		2.5	0.39	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.5	0.46	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.5	0.42	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.5	0.45	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	46		2.5	0.87	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	271	25-150
13C2_6:2FTS	N	248	25-150
13C2_8:2FTS	N	319	25-150
13C2_PFDaA		84	25-150
13C2_PFTeDA		62	25-150
13C3_PFBs		80	25-150
13C3_PFHxS		82	25-150
13C4_PFBa		74	25-150
13C4_PFHpA		88	25-150
13C5_PFHxA		77	25-150
13C5_PFPeA		81	25-150
13C6_PFDa		87	25-150
13C7_PFUdA		87	25-150
13C8_PFOA		75	25-150
13C8_PFOs		85	25-150
13C8_PFOsA		69	10-150
13C9_PFNa		87	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-006
Description: SB40-1	Matrix: Solid
Date Sampled: 05/20/2022 1150	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 36.7 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		107	25-150
d-MeFOSA		59	10-150
d3-MeFOSAA		102	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-007
Description: SB188-1	Matrix: Solid
Date Sampled: 05/20/2022 1105	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 87.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1707	LAB	05/25/2022 1103	42904
2	SOP SPE	PFAS by ID SOP	1	06/14/2022 2239	ASD	06/10/2022 1306	44515

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.0	0.27	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	33	B	1.9	0.30	ug/kg	2
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.0	0.21	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.0	0.29	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.0	0.39	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	0.95	J	0.99	0.13	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		0.99	0.22	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	7.9		0.99	0.17	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		0.99	0.22	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.72	J	0.99	0.18	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	6.3		0.99	0.17	ug/kg	1
Perfluoro-n-butyric acid (PFBA)	375-22-4	PFAS by ID SOP	2.0		0.99	0.41	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		0.99	0.16	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	1.2		0.99	0.14	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	5.4		0.99	0.18	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		0.99	0.15	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	4.3		0.99	0.21	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	7.0		0.99	0.16	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		0.99	0.19	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		0.99	0.17	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		0.99	0.18	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	33		0.99	0.35	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	164	25-150		111	25-150
13C2_6:2FTS	N	157	25-150		115	25-150
13C2_8:2FTS	N	239	25-150	N	156	25-150
13C2_PFDa		128	25-150		116	25-150
13C2_PFTeDA		97	25-150		82	25-150
13C3_PFBs		102	25-150		86	25-150
13C3_PFHxS		108	25-150		85	25-150
13C4_PFBa		101	25-150		89	25-150
13C4_PFHpA		103	25-150		84	25-150
13C5_PFHxA		103	25-150		92	25-150
13C5_PFPeA		105	25-150		83	25-150
13C6_PFDa		112	25-150		95	25-150
13C7_PFUdA		122	25-150		111	25-150
13C8_PFOA		100	25-150		86	25-150
13C8_PFOs		111	25-150		90	25-150
13C8_PFOsA		106	10-150		92	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-007
Description: SB188-1	Matrix: Solid
Date Sampled: 05/20/2022 1105	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 87.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		111	25-150		89	25-150
d5-EtFOSAA	N	155	25-150		132	25-150
d-MeFOSA		85	10-150		74	10-150
d3-MeFOSAA		139	25-150		112	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-008
Description: SB43-1	Matrix: Solid
Date Sampled: 05/20/2022 1238	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 33.4 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1718	LAB	05/25/2022 1103	42904
2	SOP SPE	PFAS by ID SOP	10	06/24/2022 1404	NK1	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	6.3	Q	5.0	0.69	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	22	Q	5.0	0.77	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	5.0	0.55	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		5.0	0.73	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		5.0	0.88	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		5.0	1.0	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	2.4	J	2.5	0.33	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.5	0.56	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	4.4		2.5	0.44	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.5	0.55	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	1.2	J	2.5	0.44	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	4.4		2.5	0.47	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	31		2.5	0.44	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	3.5		2.5	1.0	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	5.4		2.5	0.40	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	6.4		2.5	0.36	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	11		2.5	0.47	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	14		2.5	0.38	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	12		2.5	0.53	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	17		2.5	0.40	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.5	0.48	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	1.2	J	2.5	0.47	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	1500	H	25	9.0	ug/kg	2

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C2_4:2FTS	N	243	25-150	H	91	25-150
13C2_6:2FTS	N	227	25-150	H	69	25-150
13C2_8:2FTS	N	276	25-150	H	99	25-150
13C2_PFDa		82	25-150	H	83	25-150
13C2_PFTeDA		60	25-150	H	75	25-150
13C3_PFBs		74	25-150	H	67	25-150
13C3_PFHxS		76	25-150	H	72	25-150
13C4_PFBa		70	25-150	H	66	25-150
13C4_PFHpA		75	25-150	H	68	25-150
13C5_PFHxA		79	25-150	H	64	25-150
13C5_PFPeA		69	25-150	H	68	25-150
13C6_PFDa		82	25-150	H	73	25-150
13C7_PFUdA		85	25-150	H	80	25-150
13C8_PFOA		74	25-150	H	64	25-150
13C8_PFOs		73	25-150	H	69	25-150
13C8_PFOsA		71	10-150	H	72	10-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-008
Description: SB43-1	Matrix: Solid
Date Sampled: 05/20/2022 1238	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 33.4 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits	Q	Run 2 % Recovery	Acceptance Limits
13C9_PFNA		74	25-150	H	69	25-150
d5-EtFOSAA		105	25-150	H	90	25-150
d-MeFOSA		63	10-150	H	82	10-150
d3-MeFOSAA		106	25-150	H	85	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-009
Description: EB-520	Matrix: Aqueous
Date Sampled: 05/20/2022 1628	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/11/2022 0437	ASD	06/07/2022 1430	44068

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		6.9	1.4	ng/L	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		6.9	1.7	ng/L	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		6.9	0.76	ng/L	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		6.9	0.65	ng/L	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		14	1.1	ng/L	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		6.9	0.81	ng/L	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.5	0.36	ng/L	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.5	0.67	ng/L	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.5	0.43	ng/L	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.5	0.62	ng/L	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.5	0.53	ng/L	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.5	0.51	ng/L	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.5	0.48	ng/L	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	1.8	J	3.5	0.52	ng/L	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.5	0.45	ng/L	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.5	0.41	ng/L	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.5	0.39	ng/L	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.5	0.60	ng/L	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.5	0.40	ng/L	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.5	0.72	ng/L	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.5	0.47	ng/L	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.5	0.52	ng/L	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.5	0.46	ng/L	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.5	0.54	ng/L	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.5	1.7	ng/L	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		128	25-150
13C2_6:2FTS		133	25-150
13C2_8:2FTS		117	25-150
13C2_PFDaA		119	25-150
13C2_PFTeDA		111	25-150
13C3_PFBs		111	25-150
13C3_PFHxS		111	25-150
13C4_PFBa		110	25-150
13C4_PFHpA		115	25-150
13C5_PFHxA		114	25-150
13C5_PFPeA		116	25-150
13C6_PFDa		116	25-150
13C7_PFUdA		116	25-150
13C8_PFOA		116	25-150
13C8_PFOs		110	25-150
13C8_PFOsA		105	10-150
13C9_PFNa		112	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-009
Description: EB-520	Matrix: Aqueous
Date Sampled: 05/20/2022 1628	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		127	25-150
d-MeFOSA		78	10-150
d3-MeFOSAA		134	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-010
Description: SB76-2	Matrix: Solid
Date Sampled: 05/20/2022 1341	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 84.9 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1729	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.1	0.29	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND		2.1	0.33	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.1	0.23	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.1	0.31	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.1	0.42	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	0.23	J	1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.1	0.45	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.1	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	0.21	J	1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	0.18	J	1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	0.69	J	1.1	0.38	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		133	25-150
13C2_6:2FTS		135	25-150
13C2_8:2FTS	N	187	25-150
13C2_PFDaA		117	25-150
13C2_PFTeDA		93	25-150
13C3_PFBs		98	25-150
13C3_PFHxS		101	25-150
13C4_PFBa		96	25-150
13C4_PFHpA		95	25-150
13C5_PFHxA		94	25-150
13C5_PFPeA		98	25-150
13C6_PFDa		108	25-150
13C7_PFUdA		115	25-150
13C8_PFOA		97	25-150
13C8_PFOs		102	25-150
13C8_PFOsA		101	10-150
13C9_PFNa		100	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-010
Description: SB76-2	Matrix: Solid
Date Sampled: 05/20/2022 1341	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 84.9 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		146	25-150
d-MeFOSA		92	10-150
d3-MeFOSAA		131	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-011
Description: SB85-3	Matrix: Solid
Date Sampled: 05/20/2022 1438	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 75.9 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1802	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.5	0.34	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	2.5	0.38	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.5	0.27	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.5	0.36	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.5	0.44	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.5	0.50	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.3	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.3	0.28	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.3	0.22	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.3	0.28	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.3	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.3	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.3	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.3	0.52	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.3	0.20	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.3	0.22	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.3	0.18	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.3	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.3	0.19	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.3	0.27	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.3	0.20	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.3	0.24	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.3	0.22	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.3	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.3	0.45	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	189	25-150
13C2_6:2FTS	N	193	25-150
13C2_8:2FTS	N	221	25-150
13C2_PFDaA		110	25-150
13C2_PFTeDA		88	25-150
13C3_PFBs		93	25-150
13C3_PFHxS		95	25-150
13C4_PFBa		87	25-150
13C4_PFHpA		94	25-150
13C5_PFHxA		92	25-150
13C5_PFPeA		90	25-150
13C6_PFDa		105	25-150
13C7_PFUdA		111	25-150
13C8_PFOA		91	25-150
13C8_PFOs		95	25-150
13C8_PFOsA		90	10-150
13C9_PFNa		104	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-011
Description: SB85-3	Matrix: Solid
Date Sampled: 05/20/2022 1438	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 75.9 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		147	25-150
d-MeFOSA		81	10-150
d3-MeFOSAA		144	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-012
Description: SB187-1	Matrix: Solid
Date Sampled: 05/20/2022 0925	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 86.9 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1813	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.2	0.30	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	7.5		2.2	0.34	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.39	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.44	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.31	J	1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.25	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.48	J	1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.38	J	1.1	0.21	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	4.8		1.1	0.20	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	1.2		1.1	0.46	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	1.1		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	3.6		1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	1.6		1.1	0.24	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	5.2		1.1	0.18	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	3.7		1.1	0.39	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		112	25-150
13C2_6:2FTS		110	25-150
13C2_8:2FTS		124	25-150
13C2_PFDaA		108	25-150
13C2_PFTeDA		99	25-150
13C3_PFBs		98	25-150
13C3_PFHxS		99	25-150
13C4_PFBa		97	25-150
13C4_PFHpA		95	25-150
13C5_PFHxA		97	25-150
13C5_PFPeA		96	25-150
13C6_PFDa		97	25-150
13C7_PFUdA		107	25-150
13C8_PFOA		95	25-150
13C8_PFOs		104	25-150
13C8_PFOsA		99	10-150
13C9_PFNa		100	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-012	
Description: SB187-1	Matrix: Solid	
Date Sampled: 05/20/2022 0925	Project Name: Homer Airport	% Solids: 86.9 05/27/2022 2230
Date Received: 05/24/2022	Project Number: WG1868854	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		118	25-150
d-MeFOSA		85	10-150
d3-MeFOSAA		110	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-013
Description: SB42-3	Matrix: Solid
Date Sampled: 05/20/2022 1230	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 86.5 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1824	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.1	0.29	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	10		2.1	0.33	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.1	0.23	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.1	0.31	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.1	0.42	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	0.29	J	1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	0.87	J	1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.32	J	1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	2.8		1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	0.67	J	1.1	0.45	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.57	J	1.1	0.15	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	1.6		1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	1.1		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	2.1		1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.18	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.0		1.1	0.38	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		115	25-150
13C2_6:2FTS		101	25-150
13C2_8:2FTS		53	25-150
13C2_PFDa		111	25-150
13C2_PFTeDA		101	25-150
13C3_PFBs		100	25-150
13C3_PFHxS		95	25-150
13C4_PFBa		97	25-150
13C4_PFHpA		97	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		98	25-150
13C6_PFDa		98	25-150
13C7_PFUdA		105	25-150
13C8_PFOA		100	25-150
13C8_PFOs		105	25-150
13C8_PFOsA		99	10-150
13C9_PFNa		99	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-013	
Description: SB42-3	Matrix: Solid	
Date Sampled: 05/20/2022 1230	Project Name: Homer Airport	% Solids: 86.5 05/27/2022 2230
Date Received: 05/24/2022	Project Number: WG1868854	

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		121	25-150
d-MeFOSA		95	10-150
d3-MeFOSAA		108	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-014
Description: SB186-1	Matrix: Solid
Date Sampled: 05/20/2022 1041	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 80.1 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1835	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND		2.5	0.34	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	23		2.5	0.38	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND		2.5	0.27	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		2.5	0.36	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.5	0.43	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.5	0.49	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.97	J	1.2	0.16	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.2	0.28	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	4.4		1.2	0.22	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.2	0.28	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.93	J	1.2	0.23	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	7.1		1.2	0.22	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	2.7		1.2	0.52	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.2	0.20	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.2	0.22	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	1.5		1.2	0.18	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	6.4		1.2	0.23	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.36	J	1.2	0.19	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	4.7		1.2	0.27	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	9.4		1.2	0.20	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.2	0.24	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.2	0.21	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.2	0.23	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	85		1.2	0.45	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS		115	25-150
13C2_6:2FTS		107	25-150
13C2_8:2FTS		121	25-150
13C2_PFDa		102	25-150
13C2_PFTeDA		95	25-150
13C3_PFBs		93	25-150
13C3_PFHxS		94	25-150
13C4_PFBa		91	25-150
13C4_PFHpA		91	25-150
13C5_PFHxA		93	25-150
13C5_PFPeA		94	25-150
13C6_PFDa		94	25-150
13C7_PFUdA		103	25-150
13C8_PFOA		90	25-150
13C8_PFOs		93	25-150
13C8_PFOsA		95	10-150
13C9_PFNa		94	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-014
Description: SB186-1	Matrix: Solid
Date Sampled: 05/20/2022 1041	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 80.1 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		115	25-150
d-MeFOSA		83	10-150
d3-MeFOSAA		106	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-015
Description: SB88-1	Matrix: Solid
Date Sampled: 05/20/2022 1505	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 25.0 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1846	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	7.0	0.96	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	7.0	1.1	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	7.0	0.76	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		7.0	1.0	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		7.0	1.2	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		7.0	1.4	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	2.0	J	3.5	0.46	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.5	0.78	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.5	0.62	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.5	0.77	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.5	0.62	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	1.5	J	3.5	0.65	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	1.3	J	3.5	0.62	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	8.1		3.5	1.5	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.5	0.56	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		3.5	0.62	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	4.7		3.5	0.50	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	35		3.5	0.65	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.5	0.52	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.5	0.75	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	46		3.5	0.56	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.5	0.66	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.5	0.60	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.5	0.65	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	2.2	J	3.5	1.3	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	370	25-150
13C2_6:2FTS	N	317	25-150
13C2_8:2FTS	N	397	25-150
13C2_PFDaA		108	25-150
13C2_PFTeDA		73	25-150
13C3_PFBs		104	25-150
13C3_PFHxS		110	25-150
13C4_PFBa		100	25-150
13C4_PFHpA		106	25-150
13C5_PFHxA		109	25-150
13C5_PFPeA		100	25-150
13C6_PFDa		112	25-150
13C7_PFUdA		104	25-150
13C8_PFOA		104	25-150
13C8_PFOs		108	25-150
13C8_PFOsA		90	10-150
13C9_PFNa		106	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-015
Description: SB88-1	Matrix: Solid
Date Sampled: 05/20/2022 1505	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 25.0 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		129	25-150
d-MeFOSA		76	10-150
d3-MeFOSAA		127	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-016
Description: SB84-1	Matrix: Solid
Date Sampled: 05/20/2022 1419	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 50.0 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1857	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.6	0.49	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.6	0.55	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.6	0.39	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		3.6	0.52	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.6	0.63	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		3.6	0.71	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		1.8	0.24	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.8	0.40	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.8	0.40	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		1.8	0.75	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		1.8	0.28	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.8	0.32	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		1.8	0.26	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		1.8	0.27	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		1.8	0.38	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		1.8	0.29	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.8	0.34	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.8	0.31	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.8	0.33	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		1.8	0.64	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	310	25-150
13C2_6:2FTS	N	288	25-150
13C2_8:2FTS	N	383	25-150
13C2_PFDaA		105	25-150
13C2_PFTeDA		75	25-150
13C3_PFBs		91	25-150
13C3_PFHxS		93	25-150
13C4_PFBa		88	25-150
13C4_PFHpA		94	25-150
13C5_PFHxA		94	25-150
13C5_PFPeA		89	25-150
13C6_PFDa		107	25-150
13C7_PFUdA		116	25-150
13C8_PFOA		93	25-150
13C8_PFOs		96	25-150
13C8_PFOsA		93	10-150
13C9_PFNa		100	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-016
Description: SB84-1	Matrix: Solid
Date Sampled: 05/20/2022 1419	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 50.0 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		136	25-150
d-MeFOSA		74	10-150
d3-MeFOSAA		135	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-017
Description: SB86-1	Matrix: Solid
Date Sampled: 05/20/2022 1443	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 41.9 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1908	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	4.2	0.58	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	1.1	JQ	4.2	0.65	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	4.2	0.46	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		4.2	0.61	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		4.2	0.73	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		4.2	0.83	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.29	J	2.1	0.28	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.1	0.47	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.1	0.46	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.54	J	2.1	0.39	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	3.3		2.1	0.37	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.1	0.88	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.1	0.33	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.1	0.37	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	0.66	J	2.1	0.30	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	1.1	J	2.1	0.39	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	0.35	J	2.1	0.31	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	0.84	J	2.1	0.45	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	1.1	J	2.1	0.33	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.1	0.40	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.1	0.36	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.1	0.39	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	13		2.1	0.75	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	294	25-150
13C2_6:2FTS	N	285	25-150
13C2_8:2FTS	N	375	25-150
13C2_PFDaA		105	25-150
13C2_PFTeDA		79	25-150
13C3_PFBs		95	25-150
13C3_PFHxS		101	25-150
13C4_PFBa		91	25-150
13C4_PFHpA		99	25-150
13C5_PFHxA		101	25-150
13C5_PFPeA		94	25-150
13C6_PFDa		108	25-150
13C7_PFUdA		113	25-150
13C8_PFOA		95	25-150
13C8_PFOs		101	25-150
13C8_PFOsA		97	10-150
13C9_PFNa		105	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-017
Description: SB86-1	Matrix: Solid
Date Sampled: 05/20/2022 1443	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 41.9 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		141	25-150
d-MeFOSA		78	10-150
d3-MeFOSAA		138	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-018
Description: SB85-1	Matrix: Solid
Date Sampled: 05/20/2022 1429	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 47.8 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1919	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	3.9	0.54	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	3.9	0.60	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	3.9	0.42	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	3.9	0.57	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		3.9	0.68	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND	Q	3.9	0.77	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		2.0	0.26	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		2.0	0.44	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		2.0	0.43	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		2.0	0.35	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		2.0	0.81	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		2.0	0.31	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		2.0	0.28	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		2.0	0.29	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		2.0	0.42	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		2.0	0.31	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		2.0	0.37	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		2.0	0.34	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		2.0	0.36	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		2.0	0.70	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	224	25-150
13C2_6:2FTS	N	227	25-150
13C2_8:2FTS	N	302	25-150
13C2_PFDaA		113	25-150
13C2_PFTeDA		90	25-150
13C3_PFBs		96	25-150
13C3_PFHxS		101	25-150
13C4_PFBa		90	25-150
13C4_PFHpA		96	25-150
13C5_PFHxA		98	25-150
13C5_PFPeA		94	25-150
13C6_PFDa		111	25-150
13C7_PFUdA		120	25-150
13C8_PFOA		97	25-150
13C8_PFOs		100	25-150
13C8_PFOsA		96	10-150
13C9_PFNa		109	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-018
Description: SB85-1	Matrix: Solid
Date Sampled: 05/20/2022 1429	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 47.8 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	159	25-150
d-MeFOSA		85	10-150
d3-MeFOSAA	N	152	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-019
Description: SB96-1	Matrix: Solid
Date Sampled: 05/20/2022 1542	Project Name: Homer Airport
Date Received: 05/24/2022	% Solids: 28.7 05/27/2022 2230
Project Number: WG1868854	

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1930	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	6.8	0.93	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	ND	Q	6.8	1.0	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	6.8	0.73	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND		6.8	0.98	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		6.8	1.2	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		6.8	1.3	ug/kg	1
Perfluoro-1-butanefulfonic acid (PFBS)	375-73-5	PFAS by ID SOP	ND		3.4	0.44	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		3.4	0.76	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	ND		3.4	0.59	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		3.4	0.75	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		3.4	0.60	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	ND		3.4	0.63	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	ND		3.4	0.60	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	ND		3.4	1.4	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	ND		3.4	0.54	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDaA)	307-55-1	PFAS by ID SOP	ND		3.4	0.60	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	ND		3.4	0.48	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	ND		3.4	0.63	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	ND		3.4	0.51	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	ND		3.4	0.72	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	ND		3.4	0.54	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		3.4	0.64	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		3.4	0.58	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		3.4	0.63	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	ND		3.4	1.2	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	222	25-150
13C2_6:2FTS	N	225	25-150
13C2_8:2FTS	N	274	25-150
13C2_PFDaA		80	25-150
13C2_PFTeDA		60	25-150
13C3_PFBBS		70	25-150
13C3_PFHxS		74	25-150
13C4_PFBBA		62	25-150
13C4_PFHpA		73	25-150
13C5_PFHxA		72	25-150
13C5_PFPeA		66	25-150
13C6_PFDA		78	25-150
13C7_PFUdA		87	25-150
13C8_PFOA		70	25-150
13C8_PFOS		66	25-150
13C8_PFOSA		70	10-150
13C9_PFNA		73	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-019
Description: SB96-1	Matrix: Solid
Date Sampled: 05/20/2022 1542	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 28.7 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA		99	25-150
d-MeFOSA		57	10-150
d3-MeFOSAA		97	25-150

LOQ = Limit of Quantitation	B = Detected in the method blank	E = Quantitation of compound exceeded the calibration range	DL = Detection Limit	Q = Surrogate failure
ND = Not detected at or above the DL	N = Recovery is out of criteria	P = The RPD between two GC columns exceeds 40%	J = Estimated result < LOQ and ≥ DL	L = LCS/LCSD failure
H = Out of holding time	W = Reported on wet weight basis			S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-020
Description: SB189-1	Matrix: Solid
Date Sampled: 05/20/2022 1124	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 84.8 05/27/2022 2230

Run	Prep Method	Analytical Method	Dilution	Analysis Date	Analyst	Prep Date	Batch
1	SOP SPE	PFAS by ID SOP	1	06/02/2022 1940	LAB	05/25/2022 1103	42904

Parameter	CAS Number	Analytical Method	Result	Q	LOQ	MDL	Units	Run
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	39108-34-4	PFAS by ID SOP	ND	Q	2.2	0.30	ug/kg	1
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	27619-97-2	PFAS by ID SOP	32	QS	2.2	0.33	ug/kg	1
1H,1H,2H,2H-perfluorohexane sulfonic acid (4:2 FTS)	757124-72-4	PFAS by ID SOP	ND	Q	2.2	0.24	ug/kg	1
N-ethylperfluoro-1-octanesulfonamidoacetic acid (EtFOSAA)	2991-50-6	PFAS by ID SOP	ND	Q	2.2	0.32	ug/kg	1
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	PFAS by ID SOP	ND		2.2	0.38	ug/kg	1
N-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA)	2355-31-9	PFAS by ID SOP	ND		2.2	0.43	ug/kg	1
Perfluoro-1-butanefluoronic acid (PFBS)	375-73-5	PFAS by ID SOP	0.62	J	1.1	0.14	ug/kg	1
Perfluoro-1-decanesulfonic acid (PFDS)	335-77-3	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-heptanesulfonic acid (PFHpS)	375-92-8	PFAS by ID SOP	1.1		1.1	0.19	ug/kg	1
Perfluoro-1-nonanesulfonic acid (PFNS)	68259-12-1	PFAS by ID SOP	ND		1.1	0.24	ug/kg	1
Perfluoro-1-octanesulfonamide (PFOSA)	754-91-6	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-1-pentanesulfonic acid (PFPeS)	2706-91-4	PFAS by ID SOP	0.71	J	1.1	0.20	ug/kg	1
Perfluorohexanesulfonic acid (PFHxS)	355-46-4	PFAS by ID SOP	8.5	S	1.1	0.19	ug/kg	1
Perfluoro-n-butanoic acid (PFBA)	375-22-4	PFAS by ID SOP	2.2		1.1	0.45	ug/kg	1
Perfluoro-n-decanoic acid (PFDA)	335-76-2	PFAS by ID SOP	0.20	J	1.1	0.17	ug/kg	1
Perfluoro-n-dodecanoic acid (PFDoA)	307-55-1	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9	PFAS by ID SOP	2.2		1.1	0.16	ug/kg	1
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4	PFAS by ID SOP	4.7		1.1	0.20	ug/kg	1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1	PFAS by ID SOP	1.3		1.1	0.16	ug/kg	1
Perfluoro-n-octanoic acid (PFOA)	335-67-1	PFAS by ID SOP	3.7		1.1	0.23	ug/kg	1
Perfluoro-n-pentanoic acid (PFPeA)	2706-90-3	PFAS by ID SOP	6.7		1.1	0.17	ug/kg	1
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7	PFAS by ID SOP	ND		1.1	0.21	ug/kg	1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8	PFAS by ID SOP	ND		1.1	0.19	ug/kg	1
Perfluoro-n-undecanoic acid (PFUdA)	2058-94-8	PFAS by ID SOP	ND		1.1	0.20	ug/kg	1
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	PFAS by ID SOP	69	S	1.1	0.39	ug/kg	1

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
13C2_4:2FTS	N	196	25-150
13C2_6:2FTS	N	172	25-150
13C2_8:2FTS	N	220	25-150
13C2_PFDaA		129	25-150
13C2_PFTeDA		100	25-150
13C3_PFBs		107	25-150
13C3_PFHxS		109	25-150
13C4_PFBa		105	25-150
13C4_PFHpA		109	25-150
13C5_PFHxA		110	25-150
13C5_PFPeA		106	25-150
13C6_PFDa		115	25-150
13C7_PFUdA		125	25-150
13C8_PFOA		103	25-150
13C8_PFOs		115	25-150
13C8_PFOsA		112	10-150
13C9_PFNa		115	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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PFAS by LC/MS/MS

Client: Pace Analytical LLC	Laboratory ID: XE24082-020
Description: SB189-1	Matrix: Solid
Date Sampled: 05/20/2022 1124	Project Name: Homer Airport
Date Received: 05/24/2022	Project Number: WG1868854
	% Solids: 84.8 05/27/2022 2230

Surrogate	Q	Run 1 % Recovery	Acceptance Limits
d5-EtFOSAA	N	155	25-150
d-MeFOSA		100	10-150
d3-MeFOSAA		141	25-150

LOQ = Limit of Quantitation B = Detected in the method blank E = Quantitation of compound exceeded the calibration range DL = Detection Limit Q = Surrogate failure
 ND = Not detected at or above the DL N = Recovery is out of criteria P = The RPD between two GC columns exceeds 40% J = Estimated result < LOQ and ≥ DL L = LCS/LCSD failure
 H = Out of holding time W = Reported on wet weight basis S = MS/MSD failure

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QC Summary

PFAS by LC/MS/MS - MB

Sample ID: XQ42904-001

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/02/2022 1551
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/02/2022 1551
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/02/2022 1551
EtFOSAA	ND		1	2.0	0.29	ug/kg	06/02/2022 1551
MeFOSA	ND		1	2.0	0.35	ug/kg	06/02/2022 1551
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/02/2022 1551
PFBS	ND		1	1.0	0.13	ug/kg	06/02/2022 1551
PFDS	ND		1	1.0	0.22	ug/kg	06/02/2022 1551
PFHpS	ND		1	1.0	0.18	ug/kg	06/02/2022 1551
PFNS	ND		1	1.0	0.22	ug/kg	06/02/2022 1551
PFOSA	ND		1	1.0	0.18	ug/kg	06/02/2022 1551
PFPeS	ND		1	1.0	0.19	ug/kg	06/02/2022 1551
PFHxS	ND		1	1.0	0.18	ug/kg	06/02/2022 1551
PFBA	ND		1	1.0	0.42	ug/kg	06/02/2022 1551
PFDA	ND		1	1.0	0.16	ug/kg	06/02/2022 1551
PFDaA	ND		1	1.0	0.18	ug/kg	06/02/2022 1551
PFHpA	ND		1	1.0	0.14	ug/kg	06/02/2022 1551
PFHxA	ND		1	1.0	0.18	ug/kg	06/02/2022 1551
PFNA	ND		1	1.0	0.15	ug/kg	06/02/2022 1551
PFOA	ND		1	1.0	0.21	ug/kg	06/02/2022 1551
PFPeA	ND		1	1.0	0.16	ug/kg	06/02/2022 1551
PFTeDA	ND		1	1.0	0.19	ug/kg	06/02/2022 1551
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/02/2022 1551
PFUdA	ND		1	1.0	0.18	ug/kg	06/02/2022 1551
PFOS	ND		1	1.0	0.36	ug/kg	06/02/2022 1551

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		110	25-150
13C2_6:2FTS		104	25-150
13C2_8:2FTS		106	25-150
13C2_PFDaA		101	25-150
13C2_PFTeDA		109	25-150
13C3_PFBS		105	25-150
13C3_PFHxS		105	25-150
13C4_PFBA		104	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		105	25-150
13C5_PFPeA		105	25-150
13C6_PFDA		69	25-150
13C7_PFUdA		106	25-150
13C8_PFOA		101	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ42904-001

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		106	25-150
13C8_PFOA		101	10-150
13C9_PFOA		108	25-150
d5-EtFOSAA		108	25-150
d-MeFOA		85	10-150
d3-MeFOA		106	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ42904-002

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.9		1	101	50-150	06/02/2022 1602
6:2 FTS	1.9	2.2		1	116	50-150	06/02/2022 1602
4:2 FTS	1.9	2.1		1	112	50-150	06/02/2022 1602
EtFOSAA	2.0	2.3		1	114	50-150	06/02/2022 1602
MeFOSA	2.0	2.4		1	122	50-150	06/02/2022 1602
MeFOSAA	2.0	2.3		1	113	50-150	06/02/2022 1602
PFBS	1.8	1.8		1	104	50-150	06/02/2022 1602
PFDS	1.9	2.1		1	109	50-150	06/02/2022 1602
PFHpS	1.9	1.8		1	95	50-150	06/02/2022 1602
PFNS	1.9	2.1		1	108	50-150	06/02/2022 1602
PFOSA	2.0	2.2		1	109	50-150	06/02/2022 1602
PFPeS	1.9	1.8		1	98	50-150	06/02/2022 1602
PFHxS	1.8	1.8		1	98	50-150	06/02/2022 1602
PFBA	2.0	2.2		1	108	50-150	06/02/2022 1602
PFDA	2.0	2.1		1	104	50-150	06/02/2022 1602
PFDoA	2.0	2.2		1	111	50-150	06/02/2022 1602
PFHpA	2.0	2.1		1	105	50-150	06/02/2022 1602
PFHxA	2.0	2.1		1	107	50-150	06/02/2022 1602
PFNA	2.0	2.2		1	109	50-150	06/02/2022 1602
PFOA	2.0	2.0		1	100	50-150	06/02/2022 1602
PFPeA	2.0	2.1		1	106	50-150	06/02/2022 1602
PFTeDA	2.0	2.2		1	108	50-150	06/02/2022 1602
PFTTrDA	2.0	2.1		1	104	50-150	06/02/2022 1602
PFUdA	2.0	2.2		1	108	50-150	06/02/2022 1602
PFOS	1.9	2.0		1	109	50-150	06/02/2022 1602

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		105	25-150
13C2_6:2FTS		100	25-150
13C2_8:2FTS		102	25-150
13C2_PFDoA		101	25-150
13C2_PFTeDA		103	25-150
13C3_PFBs		104	25-150
13C3_PFHxS		107	25-150
13C4_PFBA		103	25-150
13C4_PFHpA		102	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		102	25-150
13C6_PFDA		101	25-150
13C7_PFUdA		102	25-150
13C8_PFOA		102	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ42904-002

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		105	25-150
13C8_PFOA		98	10-150
13C9_PFOA		100	25-150
d5-EtFOSAA		104	25-150
d-MeFOA		95	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: XE24082-020MS

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	ND	2.1	2.2		1	105	50-150	06/02/2022 1951
6:2 FTS	32	2.1	35	N	1	161	50-150	06/02/2022 1951
4:2 FTS	ND	2.0	2.0		1	101	50-150	06/02/2022 1951
EtFOSAA	ND	2.2	2.5		1	115	50-150	06/02/2022 1951
MeFOSA	ND	2.2	2.5		1	113	50-150	06/02/2022 1951
MeFOSAA	ND	2.2	2.2		1	101	50-150	06/02/2022 1951
PFBS	0.62	1.9	2.7		1	107	50-150	06/02/2022 1951
PFDS	ND	2.1	2.2		1	103	50-150	06/02/2022 1951
PFHpS	1.1	2.1	3.1		1	94	50-150	06/02/2022 1951
PFNS	ND	2.1	2.1		1	101	50-150	06/02/2022 1951
PFOSA	ND	2.2	2.3		1	106	50-150	06/02/2022 1951
PFPeS	0.71	2.0	3.0		1	113	50-150	06/02/2022 1951
PFHxS	8.5	2.0	12	N	1	178	50-150	06/02/2022 1951
PFBA	2.2	2.2	4.7		1	118	50-150	06/02/2022 1951
PFDA	0.20	2.2	2.6		1	112	50-150	06/02/2022 1951
PFDoA	ND	2.2	2.3		1	106	50-150	06/02/2022 1951
PFHpA	2.2	2.2	4.7		1	113	50-150	06/02/2022 1951
PFHxA	4.7	2.2	7.4		1	123	50-150	06/02/2022 1951
PFNA	1.3	2.2	4.0		1	125	50-150	06/02/2022 1951
PFOA	3.7	2.2	6.5		1	129	50-150	06/02/2022 1951
PFPeA	6.7	2.2	9.7		1	139	50-150	06/02/2022 1951
PFTeDA	ND	2.2	2.4		1	109	50-150	06/02/2022 1951
PFTTrDA	ND	2.2	2.3		1	104	50-150	06/02/2022 1951
PFUdA	ND	2.2	2.3		1	108	50-150	06/02/2022 1951
PFOS	69	2.0	93	N	1	1150	50-150	06/02/2022 1951

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS	N	187	25-150
13C2_6:2FTS	N	166	25-150
13C2_8:2FTS	N	227	25-150
13C2_PFDoA		125	25-150
13C2_PFTeDA		99	25-150
13C3_PFBs		101	25-150
13C3_PFHxS		105	25-150
13C4_PFBA		100	25-150
13C4_PFHpA		105	25-150
13C5_PFHxA		104	25-150
13C5_PFPeA		100	25-150
13C6_PFDA		106	25-150
13C7_PFUdA		118	25-150
13C8_PFOA		97	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MS

Sample ID: XE24082-020MS

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		110	25-150
13C8_PFOA		105	10-150
13C9_PFOA		105	25-150
d5-EtFOSAA	N	158	25-150
d-MeFOA		95	10-150
d3-MeFOSAA		150	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: XE24082-020MD

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Parameter	Sample Amount (ug/kg)	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	% RPD	%Rec Limit	% RPD Limit	Analysis Date
8:2 FTS	ND	2.0	2.1	+	1	104	130	50-150	30	06/02/2022 2002
6:2 FTS	32	2.0	30	N	1	-118	17	50-150	30	06/02/2022 2002
4:2 FTS	ND	1.9	1.9		1	100	5.0	50-150	30	06/02/2022 2002
EtFOSAA	ND	2.1	2.0		1	95	24	50-150	30	06/02/2022 2002
MeFOSA	ND	2.1	2.4		1	116	3.0	50-150	30	06/02/2022 2002
MeFOSAA	ND	2.1	2.1		1	99	7.1	50-150	30	06/02/2022 2002
PFBS	0.62	1.8	2.4		1	97	11	50-150	30	06/02/2022 2002
PFDS	ND	2.0	2.0		1	100	7.7	50-150	30	06/02/2022 2002
PFHpS	1.1	2.0	3.2		1	105	4.1	50-150	30	06/02/2022 2002
PFNS	ND	2.0	2.0		1	99	6.5	50-150	30	06/02/2022 2002
PFOSA	ND	2.1	2.1		1	100	11	50-150	30	06/02/2022 2002
PFPeS	0.71	2.0	2.6		1	96	15	50-150	30	06/02/2022 2002
PFHxS	8.5	1.9	11		1	129	9.4	50-150	30	06/02/2022 2002
PFBA	2.2	2.1	4.5		1	112	5.5	50-150	30	06/02/2022 2002
PFDA	0.20	2.1	2.3		1	103	12	50-150	30	06/02/2022 2002
PFDoA	ND	2.1	2.1		1	100	11	50-150	30	06/02/2022 2002
PFHpA	2.2	2.1	4.3		1	97	9.8	50-150	30	06/02/2022 2002
PFHxA	4.7	2.1	6.9		1	105	7.3	50-150	30	06/02/2022 2002
PFNA	1.3	2.1	3.7		1	117	8.3	50-150	30	06/02/2022 2002
PFOA	3.7	2.1	6.0		1	115	6.9	50-150	30	06/02/2022 2002
PFPeA	6.7	2.1	8.9		1	107	8.7	50-150	30	06/02/2022 2002
PFTeDA	ND	2.1	2.1		1	101	12	50-150	30	06/02/2022 2002
PFTTrDA	ND	2.1	2.0		1	95	13	50-150	30	06/02/2022 2002
PFUdA	ND	2.1	2.0		1	97	16	50-150	30	06/02/2022 2002
PFOS	69	1.9	98	N	1	1450	5.2	50-150	30	06/02/2022 2002
Surrogate	Q	% Rec	Acceptance Limit							
13C2_4:2FTS	N	211	25-150							
13C2_6:2FTS	N	202	25-150							
13C2_8:2FTS	N	264	25-150							
13C2_PFDoA		134	25-150							
13C2_PFTeDA		103	25-150							
13C3_PFBs		110	25-150							
13C3_PFHxS		111	25-150							
13C4_PFBA		106	25-150							
13C4_PFHpA		111	25-150							
13C5_PFHxA		109	25-150							
13C5_PFPeA		106	25-150							
13C6_PFDA		119	25-150							
13C7_PFUdA		130	25-150							
13C8_PFOA		104	25-150							

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MSD

Sample ID: XE24082-020MD

Matrix: Solid

Batch: 42904

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/25/2022 1103

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		117	25-150
13C8_PFOA		115	10-150
13C9_PFOA		115	25-150
d5-EtFOSAA	N	172	25-150
d-MeFOA		95	10-150
d3-MeFOSAA	N	166	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43083-001

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	2.0	0.27	ug/kg	06/05/2022 1647
6:2 FTS	ND		1	2.0	0.31	ug/kg	06/05/2022 1647
4:2 FTS	ND		1	2.0	0.22	ug/kg	06/05/2022 1647
EiFOSAA	ND		1	2.0	0.29	ug/kg	06/05/2022 1647
MeFOSA	ND		1	2.0	0.35	ug/kg	06/05/2022 1647
MeFOSAA	ND		1	2.0	0.40	ug/kg	06/05/2022 1647
PFBS	ND		1	1.0	0.13	ug/kg	06/05/2022 1647
PFDS	ND		1	1.0	0.22	ug/kg	06/05/2022 1647
PFHpS	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFNS	ND		1	1.0	0.22	ug/kg	06/05/2022 1647
PFOSA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFPeS	ND		1	1.0	0.19	ug/kg	06/05/2022 1647
PFHxS	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFBA	ND		1	1.0	0.42	ug/kg	06/05/2022 1647
PFDA	ND		1	1.0	0.16	ug/kg	06/05/2022 1647
PFDaA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFHpA	ND		1	1.0	0.14	ug/kg	06/05/2022 1647
PFHxA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFNA	ND		1	1.0	0.15	ug/kg	06/05/2022 1647
PFOA	ND		1	1.0	0.21	ug/kg	06/05/2022 1647
PFPeA	ND		1	1.0	0.16	ug/kg	06/05/2022 1647
PFTeDA	ND		1	1.0	0.19	ug/kg	06/05/2022 1647
PFTTrDA	ND		1	1.0	0.17	ug/kg	06/05/2022 1647
PFUdA	ND		1	1.0	0.18	ug/kg	06/05/2022 1647
PFOS	ND		1	1.0	0.36	ug/kg	06/05/2022 1647

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		110	25-150
13C2_6:2FTS		105	25-150
13C2_8:2FTS		88	25-150
13C2_PFDaA		103	25-150
13C2_PFTeDA		101	25-150
13C3_PFBS		101	25-150
13C3_PFHxS		106	25-150
13C4_PFBA		106	25-150
13C4_PFHpA		112	25-150
13C5_PFHxA		94	25-150
13C5_PFPeA		106	25-150
13C6_PFDA		113	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		96	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ43083-001

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		111	25-150
13C8_PFOA		88	10-150
13C9_PFOA		109	25-150
d5-EtFOSAA		104	25-150
d-MeFOA		75	10-150
d3-MeFOSAA		104	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43083-002

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	1.9	1.6		1	81	50-150	06/07/2022 0027
6:2 FTS	1.9	1.8		1	95	50-150	06/07/2022 0027
4:2 FTS	1.9	1.4		1	73	50-150	06/07/2022 0027
EtFOSAA	2.0	2.0		1	98	50-150	06/07/2022 0027
MeFOSA	2.0	2.1		1	104	50-150	06/07/2022 0027
MeFOSAA	2.0	1.8		1	90	50-150	06/07/2022 0027
PFBS	1.8	1.7		1	98	50-150	06/07/2022 0027
PFDS	1.9	1.9		1	101	50-150	06/07/2022 0027
PFHpS	1.9	1.8		1	95	50-150	06/07/2022 0027
PFNS	1.9	1.9		1	99	50-150	06/07/2022 0027
PFOSA	2.0	2.0		1	98	50-150	06/07/2022 0027
PFPeS	1.9	1.6		1	85	50-150	06/07/2022 0027
PFHxS	1.8	1.9		1	102	50-150	06/07/2022 0027
PFBA	2.0	2.3		1	117	50-150	06/07/2022 0027
PFDA	2.0	1.6		1	78	50-150	06/07/2022 0027
PFDaA	2.0	1.7		1	83	50-150	06/07/2022 0027
PFHpA	2.0	2.0		1	99	50-150	06/07/2022 0027
PFHxA	2.0	1.8		1	92	50-150	06/07/2022 0027
PFNA	2.0	1.7		1	85	50-150	06/07/2022 0027
PFOA	2.0	1.8		1	90	50-150	06/07/2022 0027
PFPeA	2.0	1.9		1	93	50-150	06/07/2022 0027
PFTeDA	2.0	2.0		1	102	50-150	06/07/2022 0027
PFTTrDA	2.0	1.8		1	88	50-150	06/07/2022 0027
PFUdA	2.0	1.9		1	93	50-150	06/07/2022 0027
PFOS	1.9	1.7		1	93	50-150	06/07/2022 0027

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		139	25-150
13C2_6:2FTS		132	25-150
13C2_8:2FTS	N	154	25-150
13C2_PFDaA		138	25-150
13C2_PFTeDA		130	25-150
13C3_PFBs		130	25-150
13C3_PFHxS		131	25-150
13C4_PFBa		134	25-150
13C4_PFHpA		119	25-150
13C5_PFHxA		124	25-150
13C5_PFPeA		126	25-150
13C6_PFDa	N	154	25-150
13C7_PFUdA		134	25-150
13C8_PFOA		141	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ43083-002

Matrix: Solid

Batch: 43083

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 05/26/2022 1446

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		141	25-150
13C8_PFOA		132	10-150
13C9_PFOA		130	25-150
d5-EtFOSAA		122	25-150
d-MeFOA		109	10-150
d3-MeFOSAA		137	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44068-001

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
8:2 FTS	ND		1	8.0	1.6	ng/L	06/11/2022 0353
6:2 FTS	ND		1	8.0	2.0	ng/L	06/11/2022 0353
4:2 FTS	ND		1	8.0	0.87	ng/L	06/11/2022 0353
EtFOSAA	ND		1	8.0	0.75	ng/L	06/11/2022 0353
MeFOSA	ND		1	16	1.3	ng/L	06/11/2022 0353
MeFOSAA	ND		1	8.0	0.93	ng/L	06/11/2022 0353
PFBS	ND		1	4.0	0.41	ng/L	06/11/2022 0353
PFDS	ND		1	4.0	0.78	ng/L	06/11/2022 0353
PFHpS	ND		1	4.0	0.50	ng/L	06/11/2022 0353
PFNS	ND		1	4.0	0.71	ng/L	06/11/2022 0353
PFOSA	ND		1	4.0	0.61	ng/L	06/11/2022 0353
PFPeS	ND		1	4.0	0.59	ng/L	06/11/2022 0353
PFHxS	ND		1	4.0	0.55	ng/L	06/11/2022 0353
PFBA	ND		1	4.0	0.60	ng/L	06/11/2022 0353
PFDA	ND		1	4.0	0.52	ng/L	06/11/2022 0353
PFDoA	ND		1	4.0	0.47	ng/L	06/11/2022 0353
PFHpA	ND		1	4.0	0.45	ng/L	06/11/2022 0353
PFHxA	ND		1	4.0	0.69	ng/L	06/11/2022 0353
PFNA	ND		1	4.0	0.46	ng/L	06/11/2022 0353
PFOA	ND		1	4.0	0.83	ng/L	06/11/2022 0353
PFPeA	ND		1	4.0	0.54	ng/L	06/11/2022 0353
PFTeDA	ND		1	4.0	0.60	ng/L	06/11/2022 0353
PFTTrDA	ND		1	4.0	0.53	ng/L	06/11/2022 0353
PFUdA	ND		1	4.0	0.63	ng/L	06/11/2022 0353
PFOS	ND		1	4.0	2.0	ng/L	06/11/2022 0353

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		110	25-150
13C2_6:2FTS		118	25-150
13C2_8:2FTS		100	25-150
13C2_PFDoA		103	25-150
13C2_PFTeDA		102	25-150
13C3_PFBs		107	25-150
13C3_PFHxS		105	25-150
13C4_PFBA		104	25-150
13C4_PFHpA		111	25-150
13C5_PFHxA		108	25-150
13C5_PFPeA		111	25-150
13C6_PFDA		107	25-150
13C7_PFUdA		110	25-150
13C8_PFOA		115	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44068-001

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		114	25-150
13C8_PFOA		101	10-150
13C9_PFOA		109	25-150
d5-EtFOSAA		103	25-150
d-MeFOA		61	10-150
d3-MeFOSAA		101	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44068-002

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Parameter	Spike Amount (ng/L)	Result (ng/L)	Q	Dil	% Rec	%Rec Limit	Analysis Date
8:2 FTS	15	15		1	98	50-150	06/11/2022 0404
6:2 FTS	15	19		1	122	50-150	06/11/2022 0404
4:2 FTS	15	15		1	101	50-150	06/11/2022 0404
EtFOSAA	16	18		1	110	50-150	06/11/2022 0404
MeFOSA	16	19		1	119	50-150	06/11/2022 0404
MeFOSAA	16	18		1	113	50-150	06/11/2022 0404
PFBS	14	17		1	117	50-150	06/11/2022 0404
PFDS	15	16		1	103	50-150	06/11/2022 0404
PFHpS	15	18		1	119	50-150	06/11/2022 0404
PFNS	15	17		1	112	50-150	06/11/2022 0404
PFOSA	16	18		1	112	50-150	06/11/2022 0404
PFPeS	15	17		1	117	50-150	06/11/2022 0404
PFHxS	15	17		1	114	50-150	06/11/2022 0404
PFBA	16	18		1	114	50-150	06/11/2022 0404
PFDA	16	18		1	114	50-150	06/11/2022 0404
PFDaA	16	17		1	108	50-150	06/11/2022 0404
PFHpA	16	18		1	114	50-150	06/11/2022 0404
PFHxA	16	19		1	116	50-150	06/11/2022 0404
PFNA	16	18		1	110	50-150	06/11/2022 0404
PFOA	16	17		1	108	50-150	06/11/2022 0404
PFPeA	16	18		1	114	50-150	06/11/2022 0404
PFTeDA	16	17		1	109	50-150	06/11/2022 0404
PFTrDA	16	16		1	97	50-150	06/11/2022 0404
PFUdA	16	18		1	112	50-150	06/11/2022 0404
PFOS	15	17		1	116	50-150	06/11/2022 0404

Surrogate	Q	% Rec	Acceptance Limit
13C2_4:2FTS		108	25-150
13C2_6:2FTS		114	25-150
13C2_8:2FTS		100	25-150
13C2_PFDaA		95	25-150
13C2_PFTeDA		81	25-150
13C3_PFBs		98	25-150
13C3_PFHxS		100	25-150
13C4_PFBa		99	25-150
13C4_PFHpA		104	25-150
13C5_PFHxA		99	25-150
13C5_PFPeA		102	25-150
13C6_PFDa		100	25-150
13C7_PFUdA		101	25-150
13C8_PFOA		113	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44068-002

Matrix: Aqueous

Batch: 44068

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/07/2022 1430

Surrogate	Q	% Rec	Acceptance Limit
13C8_PFOS		103	25-150
13C8_PFOA		93	10-150
13C9_PFOA		102	25-150
d5-EtFOSAA		98	25-150
d-MeFOA		56	10-150
d3-MeFOSAA		97	25-150

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and \geq DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - MB

Sample ID: XQ44515-001

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Result	Q	Dil	LOQ	MDL	Units	Analysis Date
6:2 FTS	2.0		1	2.0	0.31	ug/kg	06/14/2022 2144
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		110	25-150				
13C2_6:2FTS		128	25-150				
13C2_8:2FTS		114	25-150				
13C2_PFDaA		115	25-150				
13C2_PFTeDA		116	25-150				
13C3_PFBs		117	25-150				
13C3_PFHxS		116	25-150				
13C4_PFBa		118	25-150				
13C4_PFHpA		114	25-150				
13C5_PFHxA		115	25-150				
13C5_PFPeA		117	25-150				
13C6_PFDa		117	25-150				
13C7_PFUdA		117	25-150				
13C8_PFOA		113	25-150				
13C8_PFOs		116	25-150				
13C8_PFOsA		111	10-150				
13C9_PFNa		113	25-150				
d5-EtFOSAA		118	25-150				
d-MeFOSa		86	10-150				
d3-MeFOSAA		115	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

PFAS by LC/MS/MS - LCS

Sample ID: XQ44515-002

Matrix: Solid

Batch: 44515

Prep Method: SOP SPE

Analytical Method: PFAS by ID SOP

Prep Date: 06/10/2022 1306

Parameter	Spike Amount (ug/kg)	Result (ug/kg)	Q	Dil	% Rec	%Rec Limit	Analysis Date
6:2 FTS	1.9	2.3		1	121	50-150	06/14/2022 2155
Surrogate	Q	% Rec	Acceptance Limit				
13C2_4:2FTS		97	25-150				
13C2_6:2FTS		105	25-150				
13C2_8:2FTS		97	25-150				
13C2_PFDaA		99	25-150				
13C2_PFTeDA		99	25-150				
13C3_PFBs		102	25-150				
13C3_PFHxS		104	25-150				
13C4_PFBa		102	25-150				
13C4_PFHpA		100	25-150				
13C5_PFHxA		105	25-150				
13C5_PFPeA		101	25-150				
13C6_PFDa		101	25-150				
13C7_PFUdA		105	25-150				
13C8_PFOA		99	25-150				
13C8_PFOs		104	25-150				
13C8_PFOsA		98	10-150				
13C9_PFNa		103	25-150				
d5-EtFOSAA		101	25-150				
d-MeFOSa		85	10-150				
d3-MeFOSAA		99	25-150				

LOQ = Limit of Quantitation

ND = Not detected at or above the DL

N = Recovery is out of criteria

DL = Detection Limit

J = Estimated result < LOQ and ≥ DL

P = The RPD between two GC columns exceeds 40%

* = RSD is out of criteria

+ = RPD is out of criteria

Note: Calculations are performed before rounding to avoid round-off errors in calculated results

Chain of Custody
and
Miscellaneous Documents



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive - West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134031

Client BGES Inc		Report to Contact Joyce Martin		Telephone No. / E-mail 907-644-2900 JoyM@BGESEN.com		Quote No. 00107286							
Address 1042 E 6th Ave		Sampler's Signature 		Analysis (Attach list if more space is needed)		Page 1 of 18							
City Anchorage		State AK		Zip Code 99501		 XE24082 ETEZ Plenums / Cooler I.D.							
Project Name Homer Airport		Project No.		Project Name Sam Bundy									
Sample ID / Description (Containers for each sample may be combined on one line.)	P.O. No.	Collection Time (Military)	Matrix				No. of Containers by Preservative Type				GC Requirements (Specify)		
			Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix			
SB41-1	52022	1206	X	/									
SB76-1		1336	X	/									
SB78-1		1404	X	/									
SB39-1		1140	X	/									
SB42-1		1218	X	/									
SB40-1		1150	X	/									
SB78-1		1156	X	/									
SB43-1		1238	X	/									
FB-520		1628	X	/									
SB76-2		1341	X	/									Hold

Turn Around Time Required (Prior lab approval required for expedited FAT.)
 Standard Rush (Specify)
 1. Returned by: **5/23/22 0833**
 2. Retained by: **5/24/22 1535**
 3. Relinquished by: **Fred Cox**
 4. Relinquished by: **Fred Cox**
 Note: All samples are retained for four weeks from receipt unless other arrangements are made.

Possible Hazard Identification
 Non-Hazard Flammable Skin Irritant Fumes Unknown
 1. Received by: **5/24/22 1535**
 2. Received by: **5/24/22 1535**
 3. Received by: **5/24/22 1535**
 4. Laboratory received by: **5/24/22 1535**
 LAB USE ONLY
 Received on ice (Check) No Yes Ion Pack Receipt Temp: **4.2C**



PACE ANALYTICAL SERVICES, LLC
 106 Vantage Point Drive • West Columbia, SC 29172
 Telephone No. 803-791-9700 Fax No. 803-791-9111
 www.pacelabs.com

Number 134030

Client: BGES Inc.		Report to Contact: Jane Martin		Telephone No. / Email: 403-644-2800		Quote No.: 00107286	
Address: 1042 E. 6th Ave		Sampler's Signature: <i>[Signature]</i>		Analysis (Attach list if more space is needed)		Page 3 of 8	
City: Anchorage		State: AK		Zip Code: 99501		Barcode: XE24082	
Project Name: Homer Airport		Project No.:		P.O. No.:		ETES:	
Sample ID / Description (Conditions for each sample may be combined on one line)		Collection Date(s)		Collection Time (Military)		No. of Containers by Preservative Type	
SB85-3		9-20-26		1438		None	
SB187-1				0925		None	
SB42-3				1230		None	
SB186-1				1041		None	
SB88-1				1508		None	
SB34-1				1419		None	
SB86-1				1443		None	
SB85-1				1429		None	
SB96-1				1542		None	
SB189-1				1124		None	
Remarks / Cooler ID:							

Term Around Time Required (Prior lab approval required for expedited RTT)		Sample Disposal		Possible Hazard Identification		OC Requirements (Specify)	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Rush (Specify)	<input type="checkbox"/> Return to Client	<input checked="" type="checkbox"/> Disposal by Lab	<input type="checkbox"/> Non-Hazard	<input type="checkbox"/> Flammable	<input type="checkbox"/> Skin Irritant	<input type="checkbox"/> Poison
1. Retransmitted by: <i>[Signature]</i>	Date: 5/23/22 Time: 0830	1. Received by:		2. Received by:		3. Received by:	
2. Retransmitted by:	Date:	Date:		Date:		Date:	
3. Retransmitted by:	Date:	Date:		Date:		Date:	
4. Retransmitted by: ProQuest	Date: 5/24/22 Time: 1535	4. Laboratory received by: <i>[Signature]</i>		Date: 5/24/22 Time: 1535		Terms Blank <input checked="" type="checkbox"/> N	
Note: All samples are retained for four weeks from receipt unless other arrangements are made.		LAB USE ONLY		Received on (s) (Date)		Receipt Temp. 4.2 °C	

Document Number: MF603V2-01

DISTRIBUTION: WHITE & YELLOW-Return to laboratory with Sample(s); PINK-Field/Cient Copy



Samples Receipt Checklist (SRC) (ME0018C-15)
 Issuing Authority: Pace ENV - WCOL

Revised: 9/29/2020
 Page 1 of 1

Sample Receipt Checklist (SRC)

Client: BGES Inc

Cooler Inspected by/date: KDRW / 05/24/2022

Lot #: XE24082

Means of receipt: <input type="checkbox"/> Pace <input type="checkbox"/> Client <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> Other:	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	1. Were custody seals present on the cooler?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	2. If custody seals were present, were they intact and unbroken?
pH Strip ID: NA	Chlorine Strip ID: NA
Original temperature upon receipt / Derived (Corrected) temperature upon receipt %Solid Snap-Cup ID: NA	
4.2 / 4.2 °C NA / NA °C NA / NA °C NA / NA °C	
Method: <input checked="" type="checkbox"/> Temperature Blank <input type="checkbox"/> Against Bottles IR Gun ID: 6 IR Gun Correction Factor: 0 °C	
Method of coolant: <input checked="" type="checkbox"/> Wet Ice <input type="checkbox"/> Ice Packs <input type="checkbox"/> Dry Ice <input type="checkbox"/> None	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	3. If temperature of any cooler exceeded 6.0°C, was Project Manager Notified? PM was Notified by: phone / email / face-to-face (circle one).
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	4. Is the commercial courier's packing slip attached to this form?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5. Were proper custody procedures (relinquished/received) followed?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6. Were sample IDs listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	7. Were sample IDs listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	8. Was collection date & time listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9. Was collection date & time listed on all sample containers?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10. Did all container label information (ID, date, time) agree with the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	11. Were tests to be performed listed on the COC?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	12. Did all samples arrive in the proper containers for each test and/or in good condition (unbroken, lids on, etc.)?
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	13. Was adequate sample volume available?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	14. Were all samples received within ½ the holding time or 48 hours, whichever comes first?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	15. Were any samples containers missing/excess (circle one) samples Not listed on COC?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	16. For VOA and RSK-175 samples, were bubbles present >"pea-size" (¼" or 6mm in diameter) in any of the VOA vials?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	17. Were all DRO/metals/nutrient samples received at a pH of < 2?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	18. Were all cyanide samples received at a pH > 12 and sulfide samples received at a pH > 9?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	19. Were all applicable NH ₄ /TKN/cyanide/pheno/625.1/608.3 (< 0.5mg/L) samples free of residual chlorine?
<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	20. Were client remarks/requests (i.e. requested dilutions, MS/MSD designations, etc...) correctly transcribed from the COC into the comment section in LIMS?
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	21. Was the quote number listed on the container label? If yes, Quote #
Sample Preservation (Must be completed for any sample(s) incorrectly preserved or with headspace.)	
Sample(s) NA were received incorrectly preserved and were adjusted accordingly in sample receiving with NA mL of circle one: H2SO4, HNO3, HCl, NaOH using SR # NA	
Time of preservation NA. If more than one preservative is needed, please note in the comments below.	
Sample(s) NA were received with bubbles >6 mm in diameter.	
Samples(s) NA were received with TRC > 0.5 mg/L (if #19 is no) and were adjusted accordingly in sample receiving with sodium thiosulfate (Na ₂ S ₂ O ₃) with Shealy ID: NA	
SR barcode labels applied by: KDRW Date: 05/24/2022	

Comments:

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

BGES, Inc. - Anchorage, AK

Sample Delivery Group: L1496684
Samples Received: 05/21/2022
Project Number: HOMER AIRPORT
Description: HOMER AIRPORT

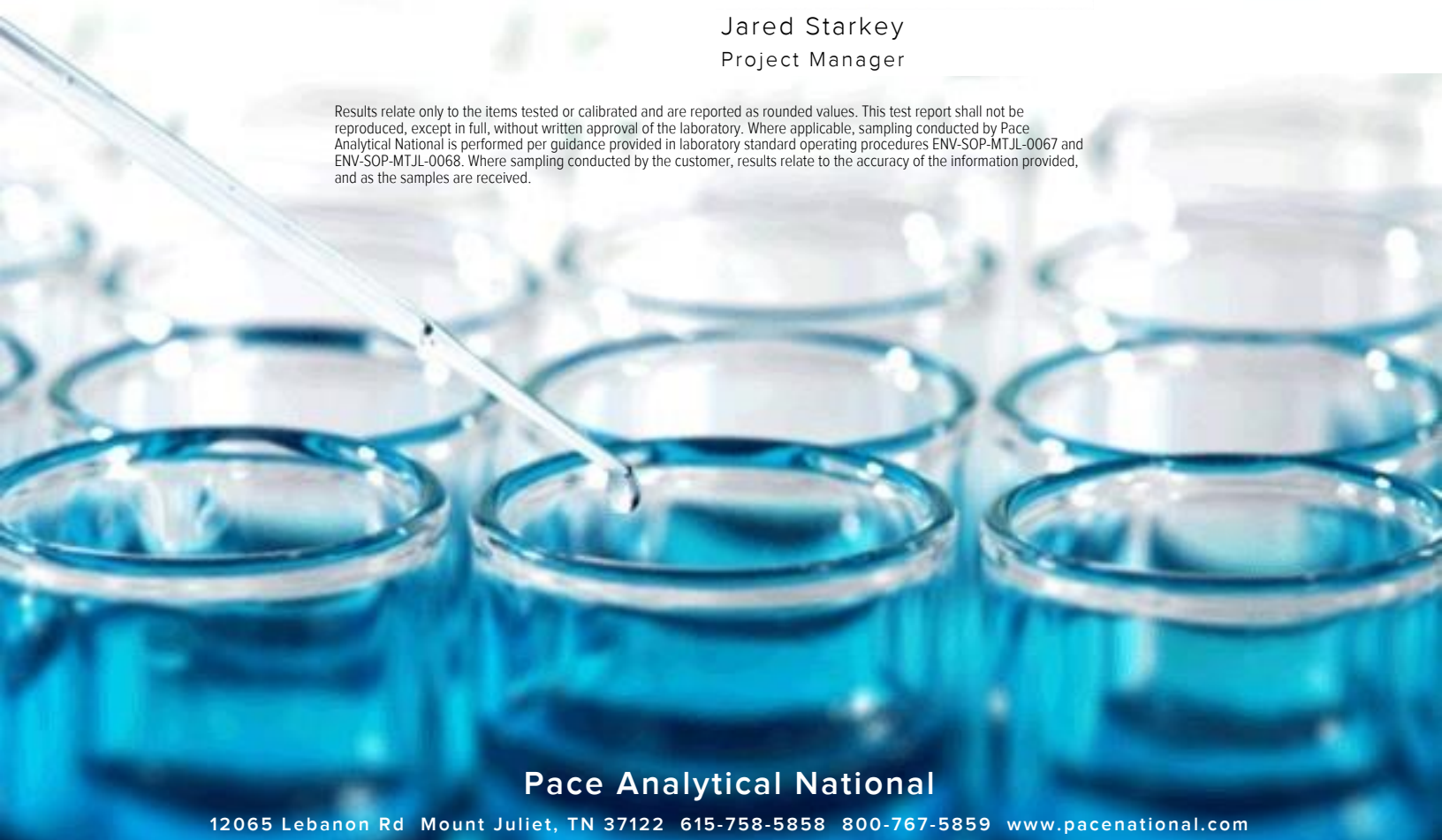
Report To: BGES
1042 E 6th Ave.
Anchorage, AK 99501

Entire Report Reviewed By:



Jared Starkey
Project Manager


















Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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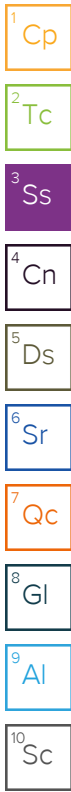
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SAMPLE SUMMARY

SB119-1 L1496684-01 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 16:37
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870547	1	05/27/22 09:01	05/27/22 09:21	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.4	05/19/22 16:37	05/27/22 21:05	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872195	1.14	05/19/22 16:37	06/01/22 13:10	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1870950	1	05/28/22 03:55	05/28/22 16:00	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872161	1	05/31/22 17:07	06/01/22 05:46	AO	Mt. Juliet, TN



SB45-1 L1496684-02 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 18:30
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870547	1	05/27/22 09:01	05/27/22 09:21	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.33	05/19/22 18:30	05/27/22 21:26	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1871410	1.06	05/19/22 18:30	05/29/22 16:46	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872196	30.8	05/19/22 18:30	05/31/22 20:40	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1870950	1	05/28/22 03:55	05/29/22 07:00	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872161	1	05/31/22 17:07	06/01/22 03:06	AO	Mt. Juliet, TN

SB121-1 L1496684-03 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 17:09
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870548	1	05/27/22 16:52	05/27/22 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.34	05/19/22 17:09	05/27/22 21:48	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872195	1.08	05/19/22 17:09	06/01/22 13:57	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1870950	1	05/28/22 03:55	05/28/22 15:35	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872161	1	05/31/22 17:07	06/01/22 04:53	AO	Mt. Juliet, TN

SB132-1 L1496684-04 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 13:59
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870548	1	05/27/22 16:52	05/27/22 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1	05/19/22 13:59	05/27/22 22:10	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1871410	1.23	05/19/22 13:59	05/29/22 18:19	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1871174	1	05/29/22 07:50	05/30/22 15:01	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872161	1	05/31/22 17:07	06/01/22 03:24	AO	Mt. Juliet, TN

SB44-1 L1496684-05 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 18:50
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870548	1	05/27/22 16:52	05/27/22 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.29	05/19/22 18:50	05/27/22 22:31	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872195	1.02	05/19/22 18:50	06/01/22 14:18	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1871174	1	05/29/22 07:50	05/30/22 16:30	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872161	1	05/31/22 17:07	06/01/22 06:04	AO	Mt. Juliet, TN

SAMPLE SUMMARY

SB45-3 L1496684-06 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 18:40
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870548	1	05/27/22 16:52	05/27/22 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.1	05/19/22 18:40	05/27/22 22:53	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1871410	1	05/19/22 18:40	05/29/22 19:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1871174	1	05/29/22 07:50	05/30/22 15:39	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872161	1	05/31/22 17:07	06/01/22 03:42	AO	Mt. Juliet, TN



SB156-1 L1496684-07 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 10:37
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870548	1	05/27/22 16:52	05/27/22 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.29	05/19/22 10:37	05/27/22 23:14	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1871410	1.01	05/19/22 10:37	05/29/22 19:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1871174	1	05/29/22 07:50	05/30/22 15:26	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872422	1	06/01/22 08:57	06/01/22 19:17	AMG	Mt. Juliet, TN

SB126-1 L1496684-08 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 15:21
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870548	1	05/27/22 16:52	05/27/22 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.37	05/19/22 15:21	05/27/22 23:36	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1871410	1.13	05/19/22 15:21	05/29/22 19:47	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1871174	1	05/29/22 07:50	05/30/22 16:43	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872422	1	06/01/22 08:57	06/01/22 20:57	AMG	Mt. Juliet, TN

SB46-1 L1496684-09 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 18:18
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1870548	1	05/27/22 16:52	05/27/22 17:16	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1870953	1.15	05/19/22 18:18	05/27/22 23:57	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1871410	1.09	05/19/22 18:18	05/29/22 20:09	JHH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872860	25	05/19/22 18:18	06/02/22 00:15	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1871174	1	05/29/22 07:50	05/30/22 16:18	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872422	1	06/01/22 08:57	06/01/22 20:17	AMG	Mt. Juliet, TN

TRIP BLANK L1496684-10 GW

Collected by: Sam Bundy
 Collected date/time: 05/19/22 00:00
 Received date/time: 05/21/22 09:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1869856	1	05/26/22 10:21	05/26/22 10:21	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873338	1	06/02/22 19:56	06/02/22 19:56	BMB	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager



Volatile Organic Compounds (GC) by Method AK101

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1869856	(MS) R3797143-4, (MSD) R3797143-5	TPHGAK C6 to C10

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1869856	(MSD) R3797143-5	TPHGAK C6 to C10

Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.

Batch	Lab Sample ID	Analytes
WG1871410	L1496684-04	2-Butanone (MEK) and Acetone
WG1871410	L1496684-06	Acetone
WG1871410	L1496684-07	2-Butanone (MEK) and Acetone
WG1871410	L1496684-08	Acetone
WG1871410	L1496684-09	2-Butanone (MEK) and Acetone

The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).

Batch	Lab Sample ID	Analytes
WG1871410	L1496684-09	Acetone

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG1872195	L1496684-01	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872195	L1496684-03	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872195	L1496684-05	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1873338	L1496684-10	Bromomethane, Chloroethane, Dichlorodifluoromethane and Trichlorofluoromethane

Surrogate recovery limits have been exceeded; values are outside upper control limits.

Batch	Analyte	Lab Sample ID
WG1871410	1,2-Dichloroethane-d4	L1496684-09
WG1871410	Toluene-d8	L1496684-09

CASE NARRATIVE

Volatile Organic Compounds (GC/MS) by Method 8260D

The associated batch QC was below the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1872860	(LCSD) R3798484-2, L1496684-09	Acetone

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1872860	(LCSD) R3798484-2, L1496684-09	Acetone

Semi-Volatile Organic Compounds (GC) by Method AK102/103

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1871174	(MS) R3797447-10, (MSD) R3797447-11	AK102 DRO C10-C25

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

DETECTION SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260D

Client ID	Lab Sample ID	Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
TRIP BLANK	L1496684-10	Xylenes, Total	0.208	J	0.174	1.50	1	06/02/2022 19:56	WG1873338

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB119-1	L1496684-01	Acetone	0.376		0.0537	0.130	1.14	06/01/2022 13:10	WG1872195
SB119-1	L1496684-01	2-Butanone (MEK)	0.0239	J	0.0122	0.0260	1.14	06/01/2022 13:10	WG1872195
SB45-1	L1496684-02	p-Isopropyltoluene	0.000588	J	0.000378	0.00185	1.06	05/29/2022 16:46	WG1871410
SB45-1	L1496684-02	4-Methyl-2-pentanone (MIBK)	0.0127	J	0.00177	0.0185	1.06	05/29/2022 16:46	WG1871410
SB121-1	L1496684-03	Acetone	0.594		0.0450	0.108	1.08	06/01/2022 13:57	WG1872195
SB121-1	L1496684-03	2-Butanone (MEK)	0.0161	J	0.0101	0.0217	1.08	06/01/2022 13:57	WG1872195
SB132-1	L1496684-04	Acetone	1.99	C5	0.0441	0.106	1.23	05/29/2022 18:19	WG1871410
SB132-1	L1496684-04	p-Isopropyltoluene	0.000464	J	0.000435	0.00213	1.23	05/29/2022 18:19	WG1871410
SB132-1	L1496684-04	2-Butanone (MEK)	0.0879	C5	0.00997	0.0213	1.23	05/29/2022 18:19	WG1871410
SB132-1	L1496684-04	4-Methyl-2-pentanone (MIBK)	0.0139	J	0.00203	0.0213	1.23	05/29/2022 18:19	WG1871410
SB44-1	L1496684-05	4-Methyl-2-pentanone (MIBK)	0.00311	J	0.00211	0.0222	1.02	06/01/2022 14:18	WG1872195
SB45-3	L1496684-06	Acetone	0.466	C5	0.0343	0.0829	1	05/29/2022 19:03	WG1871410
SB45-3	L1496684-06	2-Butanone (MEK)	0.0143	J	0.00776	0.0166	1	05/29/2022 19:03	WG1871410
SB156-1	L1496684-07	Acetone	0.736	C5	0.0254	0.0615	1.01	05/29/2022 19:25	WG1871410
SB156-1	L1496684-07	2-Butanone (MEK)	0.0331	C5	0.00576	0.0123	1.01	05/29/2022 19:25	WG1871410
SB126-1	L1496684-08	Acetone	0.428	C5	0.0576	0.139	1.13	05/29/2022 19:47	WG1871410
SB126-1	L1496684-08	2-Butanone (MEK)	0.0159	J	0.0130	0.0278	1.13	05/29/2022 19:47	WG1871410
SB46-1	L1496684-09	Acetone	1.73	C5 E	0.0336	0.0811	1.09	05/29/2022 20:09	WG1871410
SB46-1	L1496684-09	Benzene	0.00129	J	0.000609	0.00162	1.09	05/29/2022 20:09	WG1871410
SB46-1	L1496684-09	p-Isopropyltoluene	0.000420	J	0.000330	0.00162	1.09	05/29/2022 20:09	WG1871410
SB46-1	L1496684-09	2-Butanone (MEK)	0.0609	C5	0.00759	0.0162	1.09	05/29/2022 20:09	WG1871410
SB46-1	L1496684-09	4-Methyl-2-pentanone (MIBK)	0.0133	J	0.00155	0.0162	1.09	05/29/2022 20:09	WG1871410

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB119-1	L1496684-01	AK102 DRO C10-C25	235	J	197	455	1	05/28/2022 16:00	WG1870950
SB119-1	L1496684-01	AK103 RRO C25-C36	2370		152	455	1	05/28/2022 16:00	WG1870950
SB45-1	L1496684-02	AK103 RRO C25-C36	140	J	117	350	1	05/29/2022 07:00	WG1870950
SB121-1	L1496684-03	AK103 RRO C25-C36	888		134	402	1	05/28/2022 15:35	WG1870950
SB44-1	L1496684-05	AK102 DRO C10-C25	194	J	188	435	1	05/30/2022 16:30	WG1871174
SB44-1	L1496684-05	AK103 RRO C25-C36	2000		145	435	1	05/30/2022 16:30	WG1871174
SB45-3	L1496684-06	AK103 RRO C25-C36	350		110	332	1	05/30/2022 15:39	WG1871174
SB156-1	L1496684-07	AK103 RRO C25-C36	140	J	81.1	243	1	05/30/2022 15:26	WG1871174
SB126-1	L1496684-08	AK102 DRO C10-C25	248	J	213	492	1	05/30/2022 16:43	WG1871174
SB126-1	L1496684-08	AK103 RRO C25-C36	3150		164	492	1	05/30/2022 16:43	WG1871174
SB46-1	L1496684-09	AK103 RRO C25-C36	390		99.1	298	1	05/30/2022 16:18	WG1871174

DETECTION SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB119-1	L1496684-01	Anthracene	0.00631	J	0.00524	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Acenaphthylene	0.00874	J	0.00492	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Benzo(a)anthracene	0.0130	J	0.00394	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Benzo(a)pyrene	0.0110	J	0.00408	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Benzo(b)fluoranthene	0.0128	J	0.00348	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Benzo(g,h,i)perylene	0.00868	J	0.00403	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Chrysene	0.0107	J	0.00528	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Fluoranthene	0.0462	J	0.00517	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Fluorene	0.0121	J	0.00467	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Indeno(1,2,3-cd)pyrene	0.00888	J	0.00412	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Naphthalene	0.00975	J	0.00929	0.0455	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Phenanthrene	0.0663	J	0.00526	0.0137	1	06/01/2022 05:46	WG1872161
SB119-1	L1496684-01	Pyrene	0.0323	J	0.00455	0.0137	1	06/01/2022 05:46	WG1872161
SB45-1	L1496684-02	Fluoranthene	0.00609	J	0.00397	0.0105	1	06/01/2022 03:06	WG1872161
SB45-1	L1496684-02	Phenanthrene	0.00959	J	0.00404	0.0105	1	06/01/2022 03:06	WG1872161
SB45-1	L1496684-02	Pyrene	0.00471	J	0.00350	0.0105	1	06/01/2022 03:06	WG1872161
SB44-1	L1496684-05	Benzo(a)anthracene	0.00455	J	0.00376	0.0131	1	06/01/2022 06:04	WG1872161
SB44-1	L1496684-05	Benzo(a)pyrene	0.00611	J	0.00389	0.0131	1	06/01/2022 06:04	WG1872161
SB44-1	L1496684-05	Benzo(b)fluoranthene	0.00766	J	0.00333	0.0131	1	06/01/2022 06:04	WG1872161
SB44-1	L1496684-05	Chrysene	0.00524	J	0.00505	0.0131	1	06/01/2022 06:04	WG1872161
SB44-1	L1496684-05	Fluoranthene	0.0205	J	0.00494	0.0131	1	06/01/2022 06:04	WG1872161
SB44-1	L1496684-05	Indeno(1,2,3-cd)pyrene	0.00616	J	0.00394	0.0131	1	06/01/2022 06:04	WG1872161
SB44-1	L1496684-05	Pyrene	0.0125	J	0.00435	0.0131	1	06/01/2022 06:04	WG1872161
SB156-1	L1496684-07	Benzo(a)anthracene	0.00351	J	0.00211	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Benzo(a)pyrene	0.00447	J	0.00218	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Benzo(b)fluoranthene	0.00668	J	0.00186	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Benzo(g,h,i)perylene	0.00409	J	0.00215	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Chrysene	0.00469	J	0.00282	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Fluoranthene	0.0127	J	0.00276	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Indeno(1,2,3-cd)pyrene	0.00416	J	0.00220	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Phenanthrene	0.00509	J	0.00281	0.00730	1	06/01/2022 19:17	WG1872422
SB156-1	L1496684-07	Pyrene	0.00917	J	0.00243	0.00730	1	06/01/2022 19:17	WG1872422
SB126-1	L1496684-08	Fluorene	0.0132	J	0.00504	0.0148	1	06/01/2022 20:57	WG1872422
SB46-1	L1496684-09	Benzo(a)anthracene	0.00384	J	0.00257	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Benzo(a)pyrene	0.00402	J	0.00266	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Benzo(b)fluoranthene	0.00722	J	0.00228	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Benzo(g,h,i)perylene	0.00649	J	0.00263	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Chrysene	0.00460	J	0.00345	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Fluoranthene	0.0118	J	0.00338	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Indeno(1,2,3-cd)pyrene	0.00451	J	0.00269	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Phenanthrene	0.00442	J	0.00344	0.00893	1	06/01/2022 20:17	WG1872422
SB46-1	L1496684-09	Pyrene	0.00815	J	0.00298	0.00893	1	06/01/2022 20:17	WG1872422

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	43.9		1	05/27/2022 09:21	WG1870547

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		3.03	7.97	1.4	05/27/2022 21:05	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	77.8			50.0-150		05/27/2022 21:05	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.376		0.0537	0.130	1.14	06/01/2022 13:10	WG1872195
Acrylonitrile	U		0.00524	0.0260	1.14	06/01/2022 13:10	WG1872195
Benzene	U		0.000975	0.00260	1.14	06/01/2022 13:10	WG1872195
Bromobenzene	U		0.000715	0.00260	1.14	06/01/2022 13:10	WG1872195
Bromodichloromethane	U		0.00188	0.00260	1.14	06/01/2022 13:10	WG1872195
Bromoform	U		0.00110	0.00260	1.14	06/01/2022 13:10	WG1872195
Bromomethane	U		0.00303	0.0130	1.14	06/01/2022 13:10	WG1872195
n-Butylbenzene	U		0.000670	0.00260	1.14	06/01/2022 13:10	WG1872195
sec-Butylbenzene	U		0.000522	0.00260	1.14	06/01/2022 13:10	WG1872195
tert-Butylbenzene	U		0.000535	0.00260	1.14	06/01/2022 13:10	WG1872195
Carbon tetrachloride	U		0.000644	0.00260	1.14	06/01/2022 13:10	WG1872195
Chlorobenzene	U		0.000499	0.00260	1.14	06/01/2022 13:10	WG1872195
Chlorodibromomethane	U		0.000581	0.00260	1.14	06/01/2022 13:10	WG1872195
Chloroethane	U		0.00260	0.0130	1.14	06/01/2022 13:10	WG1872195
Chloroform	U		0.00266	0.0130	1.14	06/01/2022 13:10	WG1872195
Chloromethane	U	<u>C3</u>	0.00169	0.00649	1.14	06/01/2022 13:10	WG1872195
2-Chlorotoluene	U		0.000585	0.00260	1.14	06/01/2022 13:10	WG1872195
4-Chlorotoluene	U		0.00179	0.00260	1.14	06/01/2022 13:10	WG1872195
1,2-Dibromo-3-Chloropropane	U		0.00494	0.0130	1.14	06/01/2022 13:10	WG1872195
1,2-Dibromoethane	U		0.000649	0.00260	1.14	06/01/2022 13:10	WG1872195
Dibromomethane	U		0.000909	0.00260	1.14	06/01/2022 13:10	WG1872195
1,2-Dichlorobenzene	U		0.00110	0.00260	1.14	06/01/2022 13:10	WG1872195
1,3-Dichlorobenzene	U		0.00156	0.00260	1.14	06/01/2022 13:10	WG1872195
1,4-Dichlorobenzene	U		0.00215	0.00260	1.14	06/01/2022 13:10	WG1872195
Dichlorodifluoromethane	U	<u>C3</u>	0.000745	0.0130	1.14	06/01/2022 13:10	WG1872195
1,1-Dichloroethane	U		0.000697	0.00260	1.14	06/01/2022 13:10	WG1872195
1,2-Dichloroethane	U		0.00117	0.00260	1.14	06/01/2022 13:10	WG1872195
1,1-Dichloroethene	U		0.000922	0.00260	1.14	06/01/2022 13:10	WG1872195
cis-1,2-Dichloroethene	U		0.00123	0.00260	1.14	06/01/2022 13:10	WG1872195
trans-1,2-Dichloroethene	U	<u>C3</u>	0.00130	0.00260	1.14	06/01/2022 13:10	WG1872195
1,2-Dichloropropane	U		0.000426	0.00260	1.14	06/01/2022 13:10	WG1872195
1,1-Dichloropropene	U		0.000975	0.00260	1.14	06/01/2022 13:10	WG1872195
1,3-Dichloropropane	U		0.000585	0.00260	1.14	06/01/2022 13:10	WG1872195
cis-1,3-Dichloropropene	U		0.00110	0.00260	1.14	06/01/2022 13:10	WG1872195
trans-1,3-Dichloropropene	U		0.00175	0.00260	1.14	06/01/2022 13:10	WG1872195
2,2-Dichloropropane	U		0.000975	0.00260	1.14	06/01/2022 13:10	WG1872195
Di-isopropyl ether	U		0.000574	0.00260	1.14	06/01/2022 13:10	WG1872195
Ethylbenzene	U		0.000779	0.00260	1.14	06/01/2022 13:10	WG1872195
Hexachloro-1,3-butadiene	U	<u>C3</u>	0.000888	0.00260	1.14	06/01/2022 13:10	WG1872195
Isopropylbenzene	U		0.00110	0.00260	1.14	06/01/2022 13:10	WG1872195
p-Isopropyltoluene	U		0.000531	0.00260	1.14	06/01/2022 13:10	WG1872195
2-Butanone (MEK)	0.0239	<u>J</u>	0.0122	0.0260	1.14	06/01/2022 13:10	WG1872195
Methylene Chloride	U		0.00260	0.0130	1.14	06/01/2022 13:10	WG1872195
4-Methyl-2-pentanone (MIBK)	U		0.00246	0.0260	1.14	06/01/2022 13:10	WG1872195



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000909	0.00260	1.14	06/01/2022 13:10	WG1872195
Naphthalene	U		0.0129	0.0130	1.14	06/01/2022 13:10	WG1872195
n-Propylbenzene	U		0.000535	0.00260	1.14	06/01/2022 13:10	WG1872195
Styrene	U		0.000578	0.00260	1.14	06/01/2022 13:10	WG1872195
1,1,1,2-Tetrachloroethane	U		0.000767	0.00260	1.14	06/01/2022 13:10	WG1872195
1,1,2,2-Tetrachloroethane	U		0.000599	0.00260	1.14	06/01/2022 13:10	WG1872195
1,1,2-Trichlorotrifluoroethane	U		0.00111	0.00260	1.14	06/01/2022 13:10	WG1872195
Tetrachloroethene	U		0.000845	0.00260	1.14	06/01/2022 13:10	WG1872195
Toluene	U		0.00319	0.0130	1.14	06/01/2022 13:10	WG1872195
1,2,3-Trichlorobenzene	U		0.000795	0.00260	1.14	06/01/2022 13:10	WG1872195
1,2,4-Trichlorobenzene	U		0.00101	0.00260	1.14	06/01/2022 13:10	WG1872195
1,1,1-Trichloroethane	U		0.000961	0.00260	1.14	06/01/2022 13:10	WG1872195
1,1,2-Trichloroethane	U		0.00110	0.00260	1.14	06/01/2022 13:10	WG1872195
Trichloroethene	U		0.000519	0.00260	1.14	06/01/2022 13:10	WG1872195
Trichlorofluoromethane	U		0.000925	0.0130	1.14	06/01/2022 13:10	WG1872195
1,2,3-Trichloropropane	U		0.000633	0.00649	1.14	06/01/2022 13:10	WG1872195
1,2,4-Trimethylbenzene	U		0.000549	0.00260	1.14	06/01/2022 13:10	WG1872195
1,2,3-Trimethylbenzene	U		0.000745	0.00260	1.14	06/01/2022 13:10	WG1872195
Vinyl chloride	U	C3	0.000588	0.00260	1.14	06/01/2022 13:10	WG1872195
1,3,5-Trimethylbenzene	U		0.000690	0.00260	1.14	06/01/2022 13:10	WG1872195
Xylenes, Total	U		0.00130	0.00779	1.14	06/01/2022 13:10	WG1872195
(S) Toluene-d8	127			75.0-131		06/01/2022 13:10	WG1872195
(S) 4-Bromofluorobenzene	71.3			67.0-138		06/01/2022 13:10	WG1872195
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		06/01/2022 13:10	WG1872195



Sample Narrative:

L1496684-01 WG1872195: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	235	U	197	455	1	05/28/2022 16:00	WG1870950
AK103 RRO C25-C36	2370		152	455	1	05/28/2022 16:00	WG1870950
(S) o-Terphenyl	92.0			50.0-150		05/28/2022 16:00	WG1870950
(S) n-Triacontane d62	111			50.0-150		05/28/2022 16:00	WG1870950

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00631	U	0.00524	0.0137	1	06/01/2022 05:46	WG1872161
Acenaphthene	U		0.00476	0.0137	1	06/01/2022 05:46	WG1872161
Acenaphthylene	0.00874	U	0.00492	0.0137	1	06/01/2022 05:46	WG1872161
Benzo(a)anthracene	0.0130	U	0.00394	0.0137	1	06/01/2022 05:46	WG1872161
Benzo(a)pyrene	0.0110	U	0.00408	0.0137	1	06/01/2022 05:46	WG1872161
Benzo(b)fluoranthene	0.0128	U	0.00348	0.0137	1	06/01/2022 05:46	WG1872161
Benzo(g,h,i)perylene	0.00868	U	0.00403	0.0137	1	06/01/2022 05:46	WG1872161
Benzo(k)fluoranthene	U		0.00490	0.0137	1	06/01/2022 05:46	WG1872161
Chrysene	0.0107	U	0.00528	0.0137	1	06/01/2022 05:46	WG1872161
Dibenz(a,h)anthracene	U		0.00392	0.0137	1	06/01/2022 05:46	WG1872161
Fluoranthene	0.0462		0.00517	0.0137	1	06/01/2022 05:46	WG1872161
Fluorene	0.0121	U	0.00467	0.0137	1	06/01/2022 05:46	WG1872161
Indeno(1,2,3-cd)pyrene	0.00888	U	0.00412	0.0137	1	06/01/2022 05:46	WG1872161
Naphthalene	0.00975	U	0.00929	0.0455	1	06/01/2022 05:46	WG1872161
Phenanthrene	0.0663		0.00526	0.0137	1	06/01/2022 05:46	WG1872161
Pyrene	0.0323		0.00455	0.0137	1	06/01/2022 05:46	WG1872161

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.0102	0.0455	1	06/01/2022 05:46	WG1872161
2-Methylnaphthalene	U		0.00972	0.0455	1	06/01/2022 05:46	WG1872161
2-Chloronaphthalene	U		0.0106	0.0455	1	06/01/2022 05:46	WG1872161
<i>(S)</i> Nitrobenzene-d5	92.3			14.0-149		06/01/2022 05:46	WG1872161
<i>(S)</i> 2-Fluorobiphenyl	67.4			34.0-125		06/01/2022 05:46	WG1872161
<i>(S)</i> p-Terphenyl-d14	77.0			23.0-120		06/01/2022 05:46	WG1872161

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	57.1		1	05/27/2022 09:21	WG1870547

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		2.20	5.83	1.33	05/27/2022 21:26	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	78.2			50.0-150		05/27/2022 21:26	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		1.50	3.63	30.8	05/31/2022 20:40	WG1872196
Acrylonitrile	U		0.00374	0.0185	1.06	05/29/2022 16:46	WG1871410
Benzene	U		0.000696	0.00185	1.06	05/29/2022 16:46	WG1871410
Bromobenzene	U		0.000511	0.00185	1.06	05/29/2022 16:46	WG1871410
Bromodichloromethane	U		0.00135	0.00185	1.06	05/29/2022 16:46	WG1871410
Bromoform	U		0.000786	0.00185	1.06	05/29/2022 16:46	WG1871410
Bromomethane	U		0.00217	0.00927	1.06	05/29/2022 16:46	WG1871410
n-Butylbenzene	U		0.000478	0.00185	1.06	05/29/2022 16:46	WG1871410
sec-Butylbenzene	U		0.000373	0.00185	1.06	05/29/2022 16:46	WG1871410
tert-Butylbenzene	U		0.000381	0.00185	1.06	05/29/2022 16:46	WG1871410
Carbon tetrachloride	U		0.000460	0.00185	1.06	05/29/2022 16:46	WG1871410
Chlorobenzene	U		0.000357	0.00185	1.06	05/29/2022 16:46	WG1871410
Chlorodibromomethane	U		0.000415	0.00185	1.06	05/29/2022 16:46	WG1871410
Chloroethane	U		0.00185	0.00927	1.06	05/29/2022 16:46	WG1871410
Chloroform	U		0.00191	0.00927	1.06	05/29/2022 16:46	WG1871410
Chloromethane	U		0.00121	0.00464	1.06	05/29/2022 16:46	WG1871410
2-Chlorotoluene	U		0.000418	0.00185	1.06	05/29/2022 16:46	WG1871410
4-Chlorotoluene	U		0.00128	0.00185	1.06	05/29/2022 16:46	WG1871410
1,2-Dibromo-3-Chloropropane	U		0.00352	0.00927	1.06	05/29/2022 16:46	WG1871410
1,2-Dibromoethane	U		0.000464	0.00185	1.06	05/29/2022 16:46	WG1871410
Dibromomethane	U		0.000649	0.00185	1.06	05/29/2022 16:46	WG1871410
1,2-Dichlorobenzene	U		0.000789	0.00185	1.06	05/29/2022 16:46	WG1871410
1,3-Dichlorobenzene	U		0.00111	0.00185	1.06	05/29/2022 16:46	WG1871410
1,4-Dichlorobenzene	U		0.00154	0.00185	1.06	05/29/2022 16:46	WG1871410
Dichlorodifluoromethane	U		0.000532	0.00927	1.06	05/29/2022 16:46	WG1871410
1,1-Dichloroethane	U		0.000497	0.00185	1.06	05/29/2022 16:46	WG1871410
1,2-Dichloroethane	U		0.000835	0.00185	1.06	05/29/2022 16:46	WG1871410
1,1-Dichloroethene	U		0.000658	0.00185	1.06	05/29/2022 16:46	WG1871410
cis-1,2-Dichloroethene	U		0.000882	0.00185	1.06	05/29/2022 16:46	WG1871410
trans-1,2-Dichloroethene	U		0.000927	0.00185	1.06	05/29/2022 16:46	WG1871410
1,2-Dichloropropane	U		0.000304	0.00185	1.06	05/29/2022 16:46	WG1871410
1,1-Dichloropropene	U		0.000696	0.00185	1.06	05/29/2022 16:46	WG1871410
1,3-Dichloropropane	U		0.000418	0.00185	1.06	05/29/2022 16:46	WG1871410
cis-1,3-Dichloropropene	U		0.000789	0.00185	1.06	05/29/2022 16:46	WG1871410
trans-1,3-Dichloropropene	U		0.00125	0.00185	1.06	05/29/2022 16:46	WG1871410
2,2-Dichloropropane	U		0.000696	0.00185	1.06	05/29/2022 16:46	WG1871410
Di-isopropyl ether	U		0.000409	0.00185	1.06	05/29/2022 16:46	WG1871410
Ethylbenzene	U		0.000556	0.00185	1.06	05/29/2022 16:46	WG1871410
Hexachloro-1,3-butadiene	U		0.000635	0.00185	1.06	05/29/2022 16:46	WG1871410
Isopropylbenzene	U		0.000789	0.00185	1.06	05/29/2022 16:46	WG1871410
p-Isopropyltoluene	0.000588	J	0.000378	0.00185	1.06	05/29/2022 16:46	WG1871410
2-Butanone (MEK)	U		0.340	0.727	30.8	05/31/2022 20:40	WG1872196
Methylene Chloride	U		0.00185	0.00927	1.06	05/29/2022 16:46	WG1871410
4-Methyl-2-pentanone (MIBK)	0.0127	J	0.00177	0.0185	1.06	05/29/2022 16:46	WG1871410



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000649	0.00185	1.06	05/29/2022 16:46	WG1871410
Naphthalene	U		0.00924	0.00927	1.06	05/29/2022 16:46	WG1871410
n-Propylbenzene	U		0.000381	0.00185	1.06	05/29/2022 16:46	WG1871410
Styrene	U		0.000413	0.00185	1.06	05/29/2022 16:46	WG1871410
1,1,1,2-Tetrachloroethane	U		0.000549	0.00185	1.06	05/29/2022 16:46	WG1871410
1,1,2,2-Tetrachloroethane	U		0.000429	0.00185	1.06	05/29/2022 16:46	WG1871410
1,1,2-Trichlorotrifluoroethane	U		0.000791	0.00185	1.06	05/29/2022 16:46	WG1871410
Tetrachloroethene	U		0.000604	0.00185	1.06	05/29/2022 16:46	WG1871410
Toluene	U		0.00227	0.00927	1.06	05/29/2022 16:46	WG1871410
1,2,3-Trichlorobenzene	U		0.000567	0.00185	1.06	05/29/2022 16:46	WG1871410
1,2,4-Trichlorobenzene	U		0.000719	0.00185	1.06	05/29/2022 16:46	WG1871410
1,1,1-Trichloroethane	U		0.000686	0.00185	1.06	05/29/2022 16:46	WG1871410
1,1,2-Trichloroethane	U		0.000789	0.00185	1.06	05/29/2022 16:46	WG1871410
Trichloroethene	U		0.000371	0.00185	1.06	05/29/2022 16:46	WG1871410
Trichlorofluoromethane	U		0.000660	0.00927	1.06	05/29/2022 16:46	WG1871410
1,2,3-Trichloropropane	U		0.000453	0.00464	1.06	05/29/2022 16:46	WG1871410
1,2,4-Trimethylbenzene	U		0.000392	0.00185	1.06	05/29/2022 16:46	WG1871410
1,2,3-Trimethylbenzene	U		0.000532	0.00185	1.06	05/29/2022 16:46	WG1871410
Vinyl chloride	U		0.000420	0.00185	1.06	05/29/2022 16:46	WG1871410
1,3,5-Trimethylbenzene	U		0.000493	0.00185	1.06	05/29/2022 16:46	WG1871410
Xylenes, Total	U		0.000927	0.00556	1.06	05/29/2022 16:46	WG1871410
(S) Toluene-d8	98.9			75.0-131		05/29/2022 16:46	WG1871410
(S) Toluene-d8	110			75.0-131		05/31/2022 20:40	WG1872196
(S) 4-Bromofluorobenzene	97.2			67.0-138		05/29/2022 16:46	WG1871410
(S) 4-Bromofluorobenzene	99.9			67.0-138		05/31/2022 20:40	WG1872196
(S) 1,2-Dichloroethane-d4	105			70.0-130		05/29/2022 16:46	WG1871410
(S) 1,2-Dichloroethane-d4	103			70.0-130		05/31/2022 20:40	WG1872196



Sample Narrative:

L1496684-02 WG1872196: No stir bars remain for analysis.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		152	350	1	05/29/2022 07:00	WG1870950
AK103 RRO C25-C36	140	J	117	350	1	05/29/2022 07:00	WG1870950
(S) o-Terphenyl	81.3			50.0-150		05/29/2022 07:00	WG1870950
(S) n-Triacontane d62	78.6			50.0-150		05/29/2022 07:00	WG1870950

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00402	0.0105	1	06/01/2022 03:06	WG1872161
Acenaphthene	U		0.00366	0.0105	1	06/01/2022 03:06	WG1872161
Acenaphthylene	U		0.00378	0.0105	1	06/01/2022 03:06	WG1872161
Benzo(a)anthracene	U		0.00303	0.0105	1	06/01/2022 03:06	WG1872161
Benzo(a)pyrene	U		0.00313	0.0105	1	06/01/2022 03:06	WG1872161
Benzo(b)fluoranthene	U		0.00268	0.0105	1	06/01/2022 03:06	WG1872161
Benzo(g,h,i)perylene	U		0.00310	0.0105	1	06/01/2022 03:06	WG1872161
Benzo(k)fluoranthene	U		0.00376	0.0105	1	06/01/2022 03:06	WG1872161
Chrysene	U		0.00406	0.0105	1	06/01/2022 03:06	WG1872161
Dibenz(a,h)anthracene	U		0.00301	0.0105	1	06/01/2022 03:06	WG1872161
Fluoranthene	0.00609	J	0.00397	0.0105	1	06/01/2022 03:06	WG1872161
Fluorene	U		0.00359	0.0105	1	06/01/2022 03:06	WG1872161
Indeno(1,2,3-cd)pyrene	U		0.00317	0.0105	1	06/01/2022 03:06	WG1872161

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00714	0.0350	1	06/01/2022 03:06	WG1872161
Phenanthrene	0.00959	J	0.00404	0.0105	1	06/01/2022 03:06	WG1872161
Pyrene	0.00471	J	0.00350	0.0105	1	06/01/2022 03:06	WG1872161
1-Methylnaphthalene	U		0.00786	0.0350	1	06/01/2022 03:06	WG1872161
2-Methylnaphthalene	U		0.00747	0.0350	1	06/01/2022 03:06	WG1872161
2-Chloronaphthalene	U		0.00815	0.0350	1	06/01/2022 03:06	WG1872161
<i>(S)</i> Nitrobenzene-d5	59.0			14.0-149		06/01/2022 03:06	WG1872161
<i>(S)</i> 2-Fluorobiphenyl	52.8			34.0-125		06/01/2022 03:06	WG1872161
<i>(S)</i> p-Terphenyl-d14	53.4			23.0-120		06/01/2022 03:06	WG1872161

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

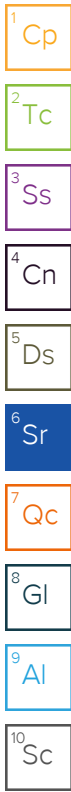
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	49.8		1	05/27/2022 17:16	WG1870548

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		2.55	6.73	1.34	05/27/2022 21:48	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	77.5			50.0-150		05/27/2022 21:48	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.594		0.0450	0.108	1.08	06/01/2022 13:57	WG1872195
Acrylonitrile	U		0.00438	0.0217	1.08	06/01/2022 13:57	WG1872195
Benzene	U		0.000813	0.00217	1.08	06/01/2022 13:57	WG1872195
Bromobenzene	U		0.000596	0.00217	1.08	06/01/2022 13:57	WG1872195
Bromodichloromethane	U		0.00157	0.00217	1.08	06/01/2022 13:57	WG1872195
Bromoform	U		0.000920	0.00217	1.08	06/01/2022 13:57	WG1872195
Bromomethane	U		0.00253	0.0108	1.08	06/01/2022 13:57	WG1872195
n-Butylbenzene	U		0.000560	0.00217	1.08	06/01/2022 13:57	WG1872195
sec-Butylbenzene	U		0.000436	0.00217	1.08	06/01/2022 13:57	WG1872195
tert-Butylbenzene	U		0.000446	0.00217	1.08	06/01/2022 13:57	WG1872195
Carbon tetrachloride	U		0.000538	0.00217	1.08	06/01/2022 13:57	WG1872195
Chlorobenzene	U		0.000416	0.00217	1.08	06/01/2022 13:57	WG1872195
Chlorodibromomethane	U		0.000486	0.00217	1.08	06/01/2022 13:57	WG1872195
Chloroethane	U		0.00217	0.0108	1.08	06/01/2022 13:57	WG1872195
Chloroform	U		0.00223	0.0108	1.08	06/01/2022 13:57	WG1872195
Chloromethane	U	<u>C3</u>	0.00141	0.00542	1.08	06/01/2022 13:57	WG1872195
2-Chlorotoluene	U		0.000488	0.00217	1.08	06/01/2022 13:57	WG1872195
4-Chlorotoluene	U		0.00150	0.00217	1.08	06/01/2022 13:57	WG1872195
1,2-Dibromo-3-Chloropropane	U		0.00412	0.0108	1.08	06/01/2022 13:57	WG1872195
1,2-Dibromoethane	U		0.000542	0.00217	1.08	06/01/2022 13:57	WG1872195
Dibromomethane	U		0.000759	0.00217	1.08	06/01/2022 13:57	WG1872195
1,2-Dichlorobenzene	U		0.000922	0.00217	1.08	06/01/2022 13:57	WG1872195
1,3-Dichlorobenzene	U		0.00130	0.00217	1.08	06/01/2022 13:57	WG1872195
1,4-Dichlorobenzene	U		0.00180	0.00217	1.08	06/01/2022 13:57	WG1872195
Dichlorodifluoromethane	U	<u>C3</u>	0.000623	0.0108	1.08	06/01/2022 13:57	WG1872195
1,1-Dichloroethane	U		0.000580	0.00217	1.08	06/01/2022 13:57	WG1872195
1,2-Dichloroethane	U		0.000976	0.00217	1.08	06/01/2022 13:57	WG1872195
1,1-Dichloroethene	U		0.000769	0.00217	1.08	06/01/2022 13:57	WG1872195
cis-1,2-Dichloroethene	U		0.00103	0.00217	1.08	06/01/2022 13:57	WG1872195
trans-1,2-Dichloroethene	U	<u>C3</u>	0.00108	0.00217	1.08	06/01/2022 13:57	WG1872195
1,2-Dichloropropane	U		0.000355	0.00217	1.08	06/01/2022 13:57	WG1872195
1,1-Dichloropropene	U		0.000813	0.00217	1.08	06/01/2022 13:57	WG1872195
1,3-Dichloropropane	U		0.000488	0.00217	1.08	06/01/2022 13:57	WG1872195
cis-1,3-Dichloropropene	U		0.000922	0.00217	1.08	06/01/2022 13:57	WG1872195
trans-1,3-Dichloropropene	U		0.00146	0.00217	1.08	06/01/2022 13:57	WG1872195
2,2-Dichloropropane	U		0.000813	0.00217	1.08	06/01/2022 13:57	WG1872195
Di-isopropyl ether	U		0.000480	0.00217	1.08	06/01/2022 13:57	WG1872195
Ethylbenzene	U		0.000651	0.00217	1.08	06/01/2022 13:57	WG1872195
Hexachloro-1,3-butadiene	U	<u>C3</u>	0.000741	0.00217	1.08	06/01/2022 13:57	WG1872195
Isopropylbenzene	U		0.000922	0.00217	1.08	06/01/2022 13:57	WG1872195
p-Isopropyltoluene	U		0.000442	0.00217	1.08	06/01/2022 13:57	WG1872195
2-Butanone (MEK)	0.0161	<u>J</u>	0.0101	0.0217	1.08	06/01/2022 13:57	WG1872195
Methylene Chloride	U		0.00217	0.0108	1.08	06/01/2022 13:57	WG1872195
4-Methyl-2-pentanone (MIBK)	U		0.00207	0.0217	1.08	06/01/2022 13:57	WG1872195



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000759	0.00217	1.08	06/01/2022 13:57	WG1872195
Naphthalene	U		0.0108	0.0108	1.08	06/01/2022 13:57	WG1872195
n-Propylbenzene	U		0.000446	0.00217	1.08	06/01/2022 13:57	WG1872195
Styrene	U		0.000484	0.00217	1.08	06/01/2022 13:57	WG1872195
1,1,1,2-Tetrachloroethane	U		0.000643	0.00217	1.08	06/01/2022 13:57	WG1872195
1,1,2,2-Tetrachloroethane	U		0.000500	0.00217	1.08	06/01/2022 13:57	WG1872195
1,1,2-Trichlorotrifluoroethane	U		0.000924	0.00217	1.08	06/01/2022 13:57	WG1872195
Tetrachloroethene	U		0.000705	0.00217	1.08	06/01/2022 13:57	WG1872195
Toluene	U		0.00267	0.0108	1.08	06/01/2022 13:57	WG1872195
1,2,3-Trichlorobenzene	U		0.000663	0.00217	1.08	06/01/2022 13:57	WG1872195
1,2,4-Trichlorobenzene	U		0.000842	0.00217	1.08	06/01/2022 13:57	WG1872195
1,1,1-Trichloroethane	U		0.000803	0.00217	1.08	06/01/2022 13:57	WG1872195
1,1,2-Trichloroethane	U		0.000922	0.00217	1.08	06/01/2022 13:57	WG1872195
Trichloroethene	U		0.000434	0.00217	1.08	06/01/2022 13:57	WG1872195
Trichlorofluoromethane	U		0.000771	0.0108	1.08	06/01/2022 13:57	WG1872195
1,2,3-Trichloropropane	U		0.000530	0.00542	1.08	06/01/2022 13:57	WG1872195
1,2,4-Trimethylbenzene	U		0.000458	0.00217	1.08	06/01/2022 13:57	WG1872195
1,2,3-Trimethylbenzene	U		0.000623	0.00217	1.08	06/01/2022 13:57	WG1872195
Vinyl chloride	U	C3	0.000490	0.00217	1.08	06/01/2022 13:57	WG1872195
1,3,5-Trimethylbenzene	U		0.000576	0.00217	1.08	06/01/2022 13:57	WG1872195
Xylenes, Total	U		0.00108	0.00651	1.08	06/01/2022 13:57	WG1872195
(S) Toluene-d8	110			75.0-131		06/01/2022 13:57	WG1872195
(S) 4-Bromofluorobenzene	88.2			67.0-138		06/01/2022 13:57	WG1872195
(S) 1,2-Dichloroethane-d4	101			70.0-130		06/01/2022 13:57	WG1872195



Sample Narrative:

L1496684-03 WG1872195: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		174	402	1	05/28/2022 15:35	WG1870950
AK103 RRO C25-C36	888		134	402	1	05/28/2022 15:35	WG1870950
(S) o-Terphenyl	84.4			50.0-150		05/28/2022 15:35	WG1870950
(S) n-Triacontane d62	104			50.0-150		05/28/2022 15:35	WG1870950

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00462	0.0121	1	06/01/2022 04:53	WG1872161
Acenaphthene	U		0.00420	0.0121	1	06/01/2022 04:53	WG1872161
Acenaphthylene	U		0.00434	0.0121	1	06/01/2022 04:53	WG1872161
Benzo(a)anthracene	U		0.00347	0.0121	1	06/01/2022 04:53	WG1872161
Benzo(a)pyrene	U		0.00359	0.0121	1	06/01/2022 04:53	WG1872161
Benzo(b)fluoranthene	U		0.00307	0.0121	1	06/01/2022 04:53	WG1872161
Benzo(g,h,i)perylene	U		0.00355	0.0121	1	06/01/2022 04:53	WG1872161
Benzo(k)fluoranthene	U		0.00432	0.0121	1	06/01/2022 04:53	WG1872161
Chrysene	U		0.00466	0.0121	1	06/01/2022 04:53	WG1872161
Dibenz(a,h)anthracene	U		0.00345	0.0121	1	06/01/2022 04:53	WG1872161
Fluoranthene	U		0.00456	0.0121	1	06/01/2022 04:53	WG1872161
Fluorene	U		0.00412	0.0121	1	06/01/2022 04:53	WG1872161
Indeno(1,2,3-cd)pyrene	U		0.00364	0.0121	1	06/01/2022 04:53	WG1872161
Naphthalene	U		0.00819	0.0402	1	06/01/2022 04:53	WG1872161
Phenanthrene	U		0.00464	0.0121	1	06/01/2022 04:53	WG1872161
Pyrene	U		0.00402	0.0121	1	06/01/2022 04:53	WG1872161

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00902	0.0402	1	06/01/2022 04:53	WG1872161
2-Methylnaphthalene	U		0.00858	0.0402	1	06/01/2022 04:53	WG1872161
2-Chloronaphthalene	U		0.00936	0.0402	1	06/01/2022 04:53	WG1872161
<i>(S)</i> Nitrobenzene-d5	78.1			14.0-149		06/01/2022 04:53	WG1872161
<i>(S)</i> 2-Fluorobiphenyl	53.8			34.0-125		06/01/2022 04:53	WG1872161
<i>(S)</i> p-Terphenyl-d14	58.8			23.0-120		06/01/2022 04:53	WG1872161

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	57.8		1	05/27/2022 17:16	WG1870548

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.64	4.33	1	05/27/2022 22:10	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	78.2			50.0-150		05/27/2022 22:10	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.99	C5	0.0441	0.106	1.23	05/29/2022 18:19	WG1871410
Acrylonitrile	U		0.00429	0.0213	1.23	05/29/2022 18:19	WG1871410
Benzene	U		0.000798	0.00213	1.23	05/29/2022 18:19	WG1871410
Bromobenzene	U		0.000585	0.00213	1.23	05/29/2022 18:19	WG1871410
Bromodichloromethane	U		0.00154	0.00213	1.23	05/29/2022 18:19	WG1871410
Bromoform	U		0.000904	0.00213	1.23	05/29/2022 18:19	WG1871410
Bromomethane	U		0.00249	0.0106	1.23	05/29/2022 18:19	WG1871410
n-Butylbenzene	U		0.000549	0.00213	1.23	05/29/2022 18:19	WG1871410
sec-Butylbenzene	U		0.000428	0.00213	1.23	05/29/2022 18:19	WG1871410
tert-Butylbenzene	U		0.000438	0.00213	1.23	05/29/2022 18:19	WG1871410
Carbon tetrachloride	U		0.000528	0.00213	1.23	05/29/2022 18:19	WG1871410
Chlorobenzene	U		0.000409	0.00213	1.23	05/29/2022 18:19	WG1871410
Chlorodibromomethane	U		0.000478	0.00213	1.23	05/29/2022 18:19	WG1871410
Chloroethane	U		0.00213	0.0106	1.23	05/29/2022 18:19	WG1871410
Chloroform	U		0.00220	0.0106	1.23	05/29/2022 18:19	WG1871410
Chloromethane	U		0.00138	0.00533	1.23	05/29/2022 18:19	WG1871410
2-Chlorotoluene	U		0.000480	0.00213	1.23	05/29/2022 18:19	WG1871410
4-Chlorotoluene	U		0.00147	0.00213	1.23	05/29/2022 18:19	WG1871410
1,2-Dibromo-3-Chloropropane	U		0.00405	0.0106	1.23	05/29/2022 18:19	WG1871410
1,2-Dibromoethane	U		0.000533	0.00213	1.23	05/29/2022 18:19	WG1871410
Dibromomethane	U		0.000746	0.00213	1.23	05/29/2022 18:19	WG1871410
1,2-Dichlorobenzene	U		0.000905	0.00213	1.23	05/29/2022 18:19	WG1871410
1,3-Dichlorobenzene	U		0.00128	0.00213	1.23	05/29/2022 18:19	WG1871410
1,4-Dichlorobenzene	U		0.00177	0.00213	1.23	05/29/2022 18:19	WG1871410
Dichlorodifluoromethane	U		0.000611	0.0106	1.23	05/29/2022 18:19	WG1871410
1,1-Dichloroethane	U		0.000571	0.00213	1.23	05/29/2022 18:19	WG1871410
1,2-Dichloroethane	U		0.000959	0.00213	1.23	05/29/2022 18:19	WG1871410
1,1-Dichloroethene	U		0.000757	0.00213	1.23	05/29/2022 18:19	WG1871410
cis-1,2-Dichloroethene	U		0.00101	0.00213	1.23	05/29/2022 18:19	WG1871410
trans-1,2-Dichloroethene	U		0.00106	0.00213	1.23	05/29/2022 18:19	WG1871410
1,2-Dichloropropane	U		0.000350	0.00213	1.23	05/29/2022 18:19	WG1871410
1,1-Dichloropropene	U		0.000798	0.00213	1.23	05/29/2022 18:19	WG1871410
1,3-Dichloropropane	U		0.000480	0.00213	1.23	05/29/2022 18:19	WG1871410
cis-1,3-Dichloropropene	U		0.000905	0.00213	1.23	05/29/2022 18:19	WG1871410
trans-1,3-Dichloropropene	U		0.00144	0.00213	1.23	05/29/2022 18:19	WG1871410
2,2-Dichloropropane	U		0.000798	0.00213	1.23	05/29/2022 18:19	WG1871410
Di-isopropyl ether	U		0.000471	0.00213	1.23	05/29/2022 18:19	WG1871410
Ethylbenzene	U		0.000639	0.00213	1.23	05/29/2022 18:19	WG1871410
Hexachloro-1,3-butadiene	U		0.000729	0.00213	1.23	05/29/2022 18:19	WG1871410
Isopropylbenzene	U		0.000905	0.00213	1.23	05/29/2022 18:19	WG1871410
p-Isopropyltoluene	0.000464	J	0.000435	0.00213	1.23	05/29/2022 18:19	WG1871410
2-Butanone (MEK)	0.0879	C5	0.00997	0.0213	1.23	05/29/2022 18:19	WG1871410
Methylene Chloride	U		0.00213	0.0106	1.23	05/29/2022 18:19	WG1871410
4-Methyl-2-pentanone (MIBK)	0.0139	J	0.00203	0.0213	1.23	05/29/2022 18:19	WG1871410

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000746	0.00213	1.23	05/29/2022 18:19	WG1871410
Naphthalene	U		0.0106	0.0106	1.23	05/29/2022 18:19	WG1871410
n-Propylbenzene	U		0.000438	0.00213	1.23	05/29/2022 18:19	WG1871410
Styrene	U		0.000474	0.00213	1.23	05/29/2022 18:19	WG1871410
1,1,1,2-Tetrachloroethane	U		0.000630	0.00213	1.23	05/29/2022 18:19	WG1871410
1,1,2,2-Tetrachloroethane	U		0.000492	0.00213	1.23	05/29/2022 18:19	WG1871410
1,1,2-Trichlorotrifluoroethane	U		0.000907	0.00213	1.23	05/29/2022 18:19	WG1871410
Tetrachloroethene	U		0.000692	0.00213	1.23	05/29/2022 18:19	WG1871410
Toluene	U		0.00261	0.0106	1.23	05/29/2022 18:19	WG1871410
1,2,3-Trichlorobenzene	U		0.000651	0.00213	1.23	05/29/2022 18:19	WG1871410
1,2,4-Trichlorobenzene	U		0.000826	0.00213	1.23	05/29/2022 18:19	WG1871410
1,1,1-Trichloroethane	U		0.000788	0.00213	1.23	05/29/2022 18:19	WG1871410
1,1,2-Trichloroethane	U		0.000905	0.00213	1.23	05/29/2022 18:19	WG1871410
Trichloroethene	U		0.000426	0.00213	1.23	05/29/2022 18:19	WG1871410
Trichlorofluoromethane	U		0.000758	0.0106	1.23	05/29/2022 18:19	WG1871410
1,2,3-Trichloropropane	U		0.000519	0.00533	1.23	05/29/2022 18:19	WG1871410
1,2,4-Trimethylbenzene	U		0.000450	0.00213	1.23	05/29/2022 18:19	WG1871410
1,2,3-Trimethylbenzene	U		0.000611	0.00213	1.23	05/29/2022 18:19	WG1871410
Vinyl chloride	U		0.000481	0.00213	1.23	05/29/2022 18:19	WG1871410
1,3,5-Trimethylbenzene	U		0.000566	0.00213	1.23	05/29/2022 18:19	WG1871410
Xylenes, Total	U		0.00106	0.00639	1.23	05/29/2022 18:19	WG1871410
(S) Toluene-d8	109			75.0-131		05/29/2022 18:19	WG1871410
(S) 4-Bromofluorobenzene	82.8			67.0-138		05/29/2022 18:19	WG1871410
(S) 1,2-Dichloroethane-d4	97.1			70.0-130		05/29/2022 18:19	WG1871410



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		150	346	1	05/30/2022 15:01	WG1871174
AK103 RRO C25-C36	U		115	346	1	05/30/2022 15:01	WG1871174
(S) o-Terphenyl	69.6			50.0-150		05/30/2022 15:01	WG1871174
(S) n-Triacontane d62	73.4			50.0-150		05/30/2022 15:01	WG1871174

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00398	0.0104	1	06/01/2022 03:24	WG1872161
Acenaphthene	U		0.00362	0.0104	1	06/01/2022 03:24	WG1872161
Acenaphthylene	U		0.00374	0.0104	1	06/01/2022 03:24	WG1872161
Benzo(a)anthracene	U		0.00300	0.0104	1	06/01/2022 03:24	WG1872161
Benzo(a)pyrene	U		0.00310	0.0104	1	06/01/2022 03:24	WG1872161
Benzo(b)fluoranthene	U		0.00265	0.0104	1	06/01/2022 03:24	WG1872161
Benzo(g,h,i)perylene	U		0.00306	0.0104	1	06/01/2022 03:24	WG1872161
Benzo(k)fluoranthene	U		0.00372	0.0104	1	06/01/2022 03:24	WG1872161
Chrysene	U		0.00402	0.0104	1	06/01/2022 03:24	WG1872161
Dibenz(a,h)anthracene	U		0.00298	0.0104	1	06/01/2022 03:24	WG1872161
Fluoranthene	U		0.00393	0.0104	1	06/01/2022 03:24	WG1872161
Fluorene	U		0.00355	0.0104	1	06/01/2022 03:24	WG1872161
Indeno(1,2,3-cd)pyrene	U		0.00313	0.0104	1	06/01/2022 03:24	WG1872161
Naphthalene	U		0.00706	0.0346	1	06/01/2022 03:24	WG1872161
Phenanthrene	U		0.00400	0.0104	1	06/01/2022 03:24	WG1872161
Pyrene	U		0.00346	0.0104	1	06/01/2022 03:24	WG1872161
1-Methylnaphthalene	U		0.00777	0.0346	1	06/01/2022 03:24	WG1872161
2-Methylnaphthalene	U		0.00739	0.0346	1	06/01/2022 03:24	WG1872161
2-Chloronaphthalene	U		0.00807	0.0346	1	06/01/2022 03:24	WG1872161

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	72.7			14.0-149		06/01/2022 03:24	WG1872161
(S) 2-Fluorobiphenyl	55.3			34.0-125		06/01/2022 03:24	WG1872161
(S) p-Terphenyl-d14	65.1			23.0-120		06/01/2022 03:24	WG1872161

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	46.0		1	05/27/2022 17:16	WG1870548

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		2.68	7.03	1.29	05/27/2022 22:31	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	74.7			50.0-150		05/27/2022 22:31	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0459	0.111	1.02	06/01/2022 14:18	WG1872195
Acrylonitrile	U		0.00448	0.0222	1.02	06/01/2022 14:18	WG1872195
Benzene	U		0.000833	0.00222	1.02	06/01/2022 14:18	WG1872195
Bromobenzene	U		0.000611	0.00222	1.02	06/01/2022 14:18	WG1872195
Bromodichloromethane	U		0.00161	0.00222	1.02	06/01/2022 14:18	WG1872195
Bromoform	U		0.000940	0.00222	1.02	06/01/2022 14:18	WG1872195
Bromomethane	U		0.00259	0.0111	1.02	06/01/2022 14:18	WG1872195
n-Butylbenzene	U		0.000572	0.00222	1.02	06/01/2022 14:18	WG1872195
sec-Butylbenzene	U		0.000446	0.00222	1.02	06/01/2022 14:18	WG1872195
tert-Butylbenzene	U		0.000457	0.00222	1.02	06/01/2022 14:18	WG1872195
Carbon tetrachloride	U		0.000550	0.00222	1.02	06/01/2022 14:18	WG1872195
Chlorobenzene	U		0.000426	0.00222	1.02	06/01/2022 14:18	WG1872195
Chlorodibromomethane	U		0.000496	0.00222	1.02	06/01/2022 14:18	WG1872195
Chloroethane	U		0.00222	0.0111	1.02	06/01/2022 14:18	WG1872195
Chloroform	U		0.00228	0.0111	1.02	06/01/2022 14:18	WG1872195
Chloromethane	U	<u>C3</u>	0.00144	0.00555	1.02	06/01/2022 14:18	WG1872195
2-Chlorotoluene	U		0.000500	0.00222	1.02	06/01/2022 14:18	WG1872195
4-Chlorotoluene	U		0.00153	0.00222	1.02	06/01/2022 14:18	WG1872195
1,2-Dibromo-3-Chloropropane	U		0.00422	0.0111	1.02	06/01/2022 14:18	WG1872195
1,2-Dibromoethane	U		0.000555	0.00222	1.02	06/01/2022 14:18	WG1872195
Dibromomethane	U		0.000777	0.00222	1.02	06/01/2022 14:18	WG1872195
1,2-Dichlorobenzene	U		0.000942	0.00222	1.02	06/01/2022 14:18	WG1872195
1,3-Dichlorobenzene	U		0.00133	0.00222	1.02	06/01/2022 14:18	WG1872195
1,4-Dichlorobenzene	U		0.00184	0.00222	1.02	06/01/2022 14:18	WG1872195
Dichlorodifluoromethane	U	<u>C3</u>	0.000638	0.0111	1.02	06/01/2022 14:18	WG1872195
1,1-Dichloroethane	U		0.000594	0.00222	1.02	06/01/2022 14:18	WG1872195
1,2-Dichloroethane	U		0.000999	0.00222	1.02	06/01/2022 14:18	WG1872195
1,1-Dichloroethene	U		0.000788	0.00222	1.02	06/01/2022 14:18	WG1872195
cis-1,2-Dichloroethene	U		0.00106	0.00222	1.02	06/01/2022 14:18	WG1872195
trans-1,2-Dichloroethene	U	<u>C3</u>	0.00111	0.00222	1.02	06/01/2022 14:18	WG1872195
1,2-Dichloropropane	U		0.000363	0.00222	1.02	06/01/2022 14:18	WG1872195
1,1-Dichloropropene	U		0.000833	0.00222	1.02	06/01/2022 14:18	WG1872195
1,3-Dichloropropane	U		0.000500	0.00222	1.02	06/01/2022 14:18	WG1872195
cis-1,3-Dichloropropene	U		0.000942	0.00222	1.02	06/01/2022 14:18	WG1872195
trans-1,3-Dichloropropene	U		0.00150	0.00222	1.02	06/01/2022 14:18	WG1872195
2,2-Dichloropropane	U		0.000833	0.00222	1.02	06/01/2022 14:18	WG1872195
Di-isopropyl ether	U		0.000490	0.00222	1.02	06/01/2022 14:18	WG1872195
Ethylbenzene	U		0.000666	0.00222	1.02	06/01/2022 14:18	WG1872195
Hexachloro-1,3-butadiene	U	<u>C3</u>	0.000759	0.00222	1.02	06/01/2022 14:18	WG1872195
Isopropylbenzene	U		0.000942	0.00222	1.02	06/01/2022 14:18	WG1872195
p-Isopropyltoluene	U		0.000453	0.00222	1.02	06/01/2022 14:18	WG1872195
2-Butanone (MEK)	U		0.0104	0.0222	1.02	06/01/2022 14:18	WG1872195
Methylene Chloride	U		0.00222	0.0111	1.02	06/01/2022 14:18	WG1872195
4-Methyl-2-pentanone (MIBK)	0.00311	<u>J</u>	0.00211	0.0222	1.02	06/01/2022 14:18	WG1872195

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000777	0.00222	1.02	06/01/2022 14:18	WG1872195
Naphthalene	U		0.0111	0.0111	1.02	06/01/2022 14:18	WG1872195
n-Propylbenzene	U		0.000457	0.00222	1.02	06/01/2022 14:18	WG1872195
Styrene	U		0.000494	0.00222	1.02	06/01/2022 14:18	WG1872195
1,1,1,2-Tetrachloroethane	U		0.000657	0.00222	1.02	06/01/2022 14:18	WG1872195
1,1,2,2-Tetrachloroethane	U		0.000514	0.00222	1.02	06/01/2022 14:18	WG1872195
1,1,2-Trichlorotrifluoroethane	U		0.000947	0.00222	1.02	06/01/2022 14:18	WG1872195
Tetrachloroethene	U		0.000722	0.00222	1.02	06/01/2022 14:18	WG1872195
Toluene	U		0.00272	0.0111	1.02	06/01/2022 14:18	WG1872195
1,2,3-Trichlorobenzene	U		0.000679	0.00222	1.02	06/01/2022 14:18	WG1872195
1,2,4-Trichlorobenzene	U		0.000862	0.00222	1.02	06/01/2022 14:18	WG1872195
1,1,1-Trichloroethane	U		0.000820	0.00222	1.02	06/01/2022 14:18	WG1872195
1,1,2-Trichloroethane	U		0.000942	0.00222	1.02	06/01/2022 14:18	WG1872195
Trichloroethene	U		0.000444	0.00222	1.02	06/01/2022 14:18	WG1872195
Trichlorofluoromethane	U		0.000790	0.0111	1.02	06/01/2022 14:18	WG1872195
1,2,3-Trichloropropane	U		0.000542	0.00555	1.02	06/01/2022 14:18	WG1872195
1,2,4-Trimethylbenzene	U		0.000468	0.00222	1.02	06/01/2022 14:18	WG1872195
1,2,3-Trimethylbenzene	U		0.000638	0.00222	1.02	06/01/2022 14:18	WG1872195
Vinyl chloride	U	C3	0.000503	0.00222	1.02	06/01/2022 14:18	WG1872195
1,3,5-Trimethylbenzene	U		0.000590	0.00222	1.02	06/01/2022 14:18	WG1872195
Xylenes, Total	U		0.00111	0.00666	1.02	06/01/2022 14:18	WG1872195
(S) Toluene-d8	127			75.0-131		06/01/2022 14:18	WG1872195
(S) 4-Bromofluorobenzene	73.9			67.0-138		06/01/2022 14:18	WG1872195
(S) 1,2-Dichloroethane-d4	104			70.0-130		06/01/2022 14:18	WG1872195



Sample Narrative:

L1496684-05 WG1872195: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	194	J	188	435	1	05/30/2022 16:30	WG1871174
AK103 RRO C25-C36	2000		145	435	1	05/30/2022 16:30	WG1871174
(S) o-Terphenyl	72.1			50.0-150		05/30/2022 16:30	WG1871174
(S) n-Triacontane d62	60.6			50.0-150		05/30/2022 16:30	WG1871174

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00500	0.0131	1	06/01/2022 06:04	WG1872161
Acenaphthene	U		0.00455	0.0131	1	06/01/2022 06:04	WG1872161
Acenaphthylene	U		0.00470	0.0131	1	06/01/2022 06:04	WG1872161
Benzo(a)anthracene	0.00455	J	0.00376	0.0131	1	06/01/2022 06:04	WG1872161
Benzo(a)pyrene	0.00611	J	0.00389	0.0131	1	06/01/2022 06:04	WG1872161
Benzo(b)fluoranthene	0.00766	J	0.00333	0.0131	1	06/01/2022 06:04	WG1872161
Benzo(g,h,i)perylene	U		0.00385	0.0131	1	06/01/2022 06:04	WG1872161
Benzo(k)fluoranthene	U		0.00468	0.0131	1	06/01/2022 06:04	WG1872161
Chrysene	0.00524	J	0.00505	0.0131	1	06/01/2022 06:04	WG1872161
Dibenz(a,h)anthracene	U		0.00374	0.0131	1	06/01/2022 06:04	WG1872161
Fluoranthene	0.0205		0.00494	0.0131	1	06/01/2022 06:04	WG1872161
Fluorene	U		0.00446	0.0131	1	06/01/2022 06:04	WG1872161
Indeno(1,2,3-cd)pyrene	0.00616	J	0.00394	0.0131	1	06/01/2022 06:04	WG1872161
Naphthalene	U		0.00888	0.0435	1	06/01/2022 06:04	WG1872161
Phenanthrene	U		0.00503	0.0131	1	06/01/2022 06:04	WG1872161
Pyrene	0.0125	J	0.00435	0.0131	1	06/01/2022 06:04	WG1872161

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00977	0.0435	1	06/01/2022 06:04	WG1872161
2-Methylnaphthalene	U		0.00929	0.0435	1	06/01/2022 06:04	WG1872161
2-Chloronaphthalene	U		0.0101	0.0435	1	06/01/2022 06:04	WG1872161
<i>(S)</i> Nitrobenzene-d5	52.5			14.0-149		06/01/2022 06:04	WG1872161
<i>(S)</i> 2-Fluorobiphenyl	51.1			34.0-125		06/01/2022 06:04	WG1872161
<i>(S)</i> p-Terphenyl-d14	60.7			23.0-120		06/01/2022 06:04	WG1872161

- ¹Cp
- ²Tc
- ³Ss
- ⁴Cn
- ⁵Ds
- ⁶Sr
- ⁷Qc
- ⁸Gl
- ⁹Al
- ¹⁰Sc

Total Solids by Method 2540 G-2011

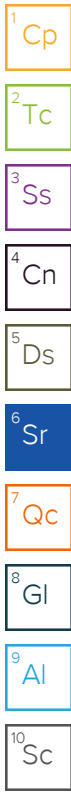
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	60.3		1	05/27/2022 17:16	WG1870548

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.74	4.56	1.1	05/27/2022 22:53	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	74.5			50.0-150		05/27/2022 22:53	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.466	C5	0.0343	0.0829	1	05/29/2022 19:03	WG1871410
Acrylonitrile	U		0.00335	0.0166	1	05/29/2022 19:03	WG1871410
Benzene	U		0.000622	0.00166	1	05/29/2022 19:03	WG1871410
Bromobenzene	U		0.000456	0.00166	1	05/29/2022 19:03	WG1871410
Bromodichloromethane	U		0.00120	0.00166	1	05/29/2022 19:03	WG1871410
Bromoform	U		0.000703	0.00166	1	05/29/2022 19:03	WG1871410
Bromomethane	U		0.00194	0.00829	1	05/29/2022 19:03	WG1871410
n-Butylbenzene	U		0.000428	0.00166	1	05/29/2022 19:03	WG1871410
sec-Butylbenzene	U		0.000333	0.00166	1	05/29/2022 19:03	WG1871410
tert-Butylbenzene	U		0.000342	0.00166	1	05/29/2022 19:03	WG1871410
Carbon tetrachloride	U		0.000411	0.00166	1	05/29/2022 19:03	WG1871410
Chlorobenzene	U		0.000318	0.00166	1	05/29/2022 19:03	WG1871410
Chlorodibromomethane	U		0.000371	0.00166	1	05/29/2022 19:03	WG1871410
Chloroethane	U		0.00166	0.00829	1	05/29/2022 19:03	WG1871410
Chloroform	U		0.00171	0.00829	1	05/29/2022 19:03	WG1871410
Chloromethane	U		0.00108	0.00414	1	05/29/2022 19:03	WG1871410
2-Chlorotoluene	U		0.000373	0.00166	1	05/29/2022 19:03	WG1871410
4-Chlorotoluene	U		0.00115	0.00166	1	05/29/2022 19:03	WG1871410
1,2-Dibromo-3-Chloropropane	U		0.00315	0.00829	1	05/29/2022 19:03	WG1871410
1,2-Dibromoethane	U		0.000414	0.00166	1	05/29/2022 19:03	WG1871410
Dibromomethane	U		0.000580	0.00166	1	05/29/2022 19:03	WG1871410
1,2-Dichlorobenzene	U		0.000705	0.00166	1	05/29/2022 19:03	WG1871410
1,3-Dichlorobenzene	U		0.000995	0.00166	1	05/29/2022 19:03	WG1871410
1,4-Dichlorobenzene	U		0.00138	0.00166	1	05/29/2022 19:03	WG1871410
Dichlorodifluoromethane	U		0.000476	0.00829	1	05/29/2022 19:03	WG1871410
1,1-Dichloroethane	U		0.000444	0.00166	1	05/29/2022 19:03	WG1871410
1,2-Dichloroethane	U		0.000746	0.00166	1	05/29/2022 19:03	WG1871410
1,1-Dichloroethene	U		0.000589	0.00166	1	05/29/2022 19:03	WG1871410
cis-1,2-Dichloroethene	U		0.000788	0.00166	1	05/29/2022 19:03	WG1871410
trans-1,2-Dichloroethene	U		0.000829	0.00166	1	05/29/2022 19:03	WG1871410
1,2-Dichloropropane	U		0.000272	0.00166	1	05/29/2022 19:03	WG1871410
1,1-Dichloropropene	U		0.000622	0.00166	1	05/29/2022 19:03	WG1871410
1,3-Dichloropropane	U		0.000373	0.00166	1	05/29/2022 19:03	WG1871410
cis-1,3-Dichloropropene	U		0.000705	0.00166	1	05/29/2022 19:03	WG1871410
trans-1,3-Dichloropropene	U		0.00112	0.00166	1	05/29/2022 19:03	WG1871410
2,2-Dichloropropane	U		0.000622	0.00166	1	05/29/2022 19:03	WG1871410
Di-isopropyl ether	U		0.000366	0.00166	1	05/29/2022 19:03	WG1871410
Ethylbenzene	U		0.000497	0.00166	1	05/29/2022 19:03	WG1871410
Hexachloro-1,3-butadiene	U		0.000567	0.00166	1	05/29/2022 19:03	WG1871410
Isopropylbenzene	U		0.000705	0.00166	1	05/29/2022 19:03	WG1871410
p-Isopropyltoluene	U		0.000338	0.00166	1	05/29/2022 19:03	WG1871410
2-Butanone (MEK)	0.0143	J	0.00776	0.0166	1	05/29/2022 19:03	WG1871410
Methylene Chloride	U		0.00166	0.00829	1	05/29/2022 19:03	WG1871410
4-Methyl-2-pentanone (MIBK)	U		0.00158	0.0166	1	05/29/2022 19:03	WG1871410



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000580	0.00166	1	05/29/2022 19:03	WG1871410
Naphthalene	U		0.00826	0.00829	1	05/29/2022 19:03	WG1871410
n-Propylbenzene	U		0.000342	0.00166	1	05/29/2022 19:03	WG1871410
Styrene	U		0.000370	0.00166	1	05/29/2022 19:03	WG1871410
1,1,1,2-Tetrachloroethane	U		0.000491	0.00166	1	05/29/2022 19:03	WG1871410
1,1,2,2-Tetrachloroethane	U		0.000383	0.00166	1	05/29/2022 19:03	WG1871410
1,1,2-Trichlorotrifluoroethane	U		0.000706	0.00166	1	05/29/2022 19:03	WG1871410
Tetrachloroethene	U		0.000539	0.00166	1	05/29/2022 19:03	WG1871410
Toluene	U		0.00204	0.00829	1	05/29/2022 19:03	WG1871410
1,2,3-Trichlorobenzene	U		0.000507	0.00166	1	05/29/2022 19:03	WG1871410
1,2,4-Trichlorobenzene	U		0.000643	0.00166	1	05/29/2022 19:03	WG1871410
1,1,1-Trichloroethane	U		0.000613	0.00166	1	05/29/2022 19:03	WG1871410
1,1,2-Trichloroethane	U		0.000705	0.00166	1	05/29/2022 19:03	WG1871410
Trichloroethene	U		0.000332	0.00166	1	05/29/2022 19:03	WG1871410
Trichlorofluoromethane	U		0.000590	0.00829	1	05/29/2022 19:03	WG1871410
1,2,3-Trichloropropane	U		0.000405	0.00414	1	05/29/2022 19:03	WG1871410
1,2,4-Trimethylbenzene	U		0.000350	0.00166	1	05/29/2022 19:03	WG1871410
1,2,3-Trimethylbenzene	U		0.000476	0.00166	1	05/29/2022 19:03	WG1871410
Vinyl chloride	U		0.000375	0.00166	1	05/29/2022 19:03	WG1871410
1,3,5-Trimethylbenzene	U		0.000441	0.00166	1	05/29/2022 19:03	WG1871410
Xylenes, Total	U		0.000829	0.00497	1	05/29/2022 19:03	WG1871410
(S) Toluene-d8	112			75.0-131		05/29/2022 19:03	WG1871410
(S) 4-Bromofluorobenzene	80.7			67.0-138		05/29/2022 19:03	WG1871410
(S) 1,2-Dichloroethane-d4	98.2			70.0-130		05/29/2022 19:03	WG1871410



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		144	332	1	05/30/2022 15:39	WG1871174
AK103 RRO C25-C36	350		110	332	1	05/30/2022 15:39	WG1871174
(S) o-Terphenyl	67.2			50.0-150		05/30/2022 15:39	WG1871174
(S) n-Triacontane d62	60.4			50.0-150		05/30/2022 15:39	WG1871174

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00381	0.00995	1	06/01/2022 03:42	WG1872161
Acenaphthene	U		0.00347	0.00995	1	06/01/2022 03:42	WG1872161
Acenaphthylene	U		0.00358	0.00995	1	06/01/2022 03:42	WG1872161
Benzo(a)anthracene	U		0.00287	0.00995	1	06/01/2022 03:42	WG1872161
Benzo(a)pyrene	U		0.00297	0.00995	1	06/01/2022 03:42	WG1872161
Benzo(b)fluoranthene	U		0.00254	0.00995	1	06/01/2022 03:42	WG1872161
Benzo(g,h,i)perylene	U		0.00293	0.00995	1	06/01/2022 03:42	WG1872161
Benzo(k)fluoranthene	U		0.00356	0.00995	1	06/01/2022 03:42	WG1872161
Chrysene	U		0.00385	0.00995	1	06/01/2022 03:42	WG1872161
Dibenz(a,h)anthracene	U		0.00285	0.00995	1	06/01/2022 03:42	WG1872161
Fluoranthene	U		0.00376	0.00995	1	06/01/2022 03:42	WG1872161
Fluorene	U		0.00340	0.00995	1	06/01/2022 03:42	WG1872161
Indeno(1,2,3-cd)pyrene	U		0.00300	0.00995	1	06/01/2022 03:42	WG1872161
Naphthalene	U		0.00676	0.0332	1	06/01/2022 03:42	WG1872161
Phenanthrene	U		0.00383	0.00995	1	06/01/2022 03:42	WG1872161
Pyrene	U		0.00332	0.00995	1	06/01/2022 03:42	WG1872161
1-Methylnaphthalene	U		0.00744	0.0332	1	06/01/2022 03:42	WG1872161
2-Methylnaphthalene	U		0.00708	0.0332	1	06/01/2022 03:42	WG1872161
2-Chloronaphthalene	U		0.00773	0.0332	1	06/01/2022 03:42	WG1872161

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	67.9			14.0-149		06/01/2022 03:42	WG1872161
(S) 2-Fluorobiphenyl	55.4			34.0-125		06/01/2022 03:42	WG1872161
(S) p-Terphenyl-d14	60.1			23.0-120		06/01/2022 03:42	WG1872161

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.1		1	05/27/2022 17:16	WG1870548

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.50	3.93	1.29	05/27/2022 23:14	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	75.7			50.0-150		05/27/2022 23:14	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.736	C5	0.0254	0.0615	1.01	05/29/2022 19:25	WG1871410
Acrylonitrile	U		0.00248	0.0123	1.01	05/29/2022 19:25	WG1871410
Benzene	U		0.000461	0.00123	1.01	05/29/2022 19:25	WG1871410
Bromobenzene	U		0.000338	0.00123	1.01	05/29/2022 19:25	WG1871410
Bromodichloromethane	U		0.000891	0.00123	1.01	05/29/2022 19:25	WG1871410
Bromoform	U		0.000521	0.00123	1.01	05/29/2022 19:25	WG1871410
Bromomethane	U		0.00144	0.00615	1.01	05/29/2022 19:25	WG1871410
n-Butylbenzene	U		0.000318	0.00123	1.01	05/29/2022 19:25	WG1871410
sec-Butylbenzene	U		0.000247	0.00123	1.01	05/29/2022 19:25	WG1871410
tert-Butylbenzene	U		0.000253	0.00123	1.01	05/29/2022 19:25	WG1871410
Carbon tetrachloride	U		0.000304	0.00123	1.01	05/29/2022 19:25	WG1871410
Chlorobenzene	U		0.000236	0.00123	1.01	05/29/2022 19:25	WG1871410
Chlorodibromomethane	U		0.000275	0.00123	1.01	05/29/2022 19:25	WG1871410
Chloroethane	U		0.00123	0.00615	1.01	05/29/2022 19:25	WG1871410
Chloroform	U		0.00127	0.00615	1.01	05/29/2022 19:25	WG1871410
Chloromethane	U		0.000799	0.00308	1.01	05/29/2022 19:25	WG1871410
2-Chlorotoluene	U		0.000276	0.00123	1.01	05/29/2022 19:25	WG1871410
4-Chlorotoluene	U		0.000850	0.00123	1.01	05/29/2022 19:25	WG1871410
1,2-Dibromo-3-Chloropropane	U		0.00234	0.00615	1.01	05/29/2022 19:25	WG1871410
1,2-Dibromoethane	U		0.000308	0.00123	1.01	05/29/2022 19:25	WG1871410
Dibromomethane	U		0.000430	0.00123	1.01	05/29/2022 19:25	WG1871410
1,2-Dichlorobenzene	U		0.000522	0.00123	1.01	05/29/2022 19:25	WG1871410
1,3-Dichlorobenzene	U		0.000738	0.00123	1.01	05/29/2022 19:25	WG1871410
1,4-Dichlorobenzene	U		0.00102	0.00123	1.01	05/29/2022 19:25	WG1871410
Dichlorodifluoromethane	U		0.000353	0.00615	1.01	05/29/2022 19:25	WG1871410
1,1-Dichloroethane	U		0.000330	0.00123	1.01	05/29/2022 19:25	WG1871410
1,2-Dichloroethane	U		0.000554	0.00123	1.01	05/29/2022 19:25	WG1871410
1,1-Dichloroethene	U		0.000437	0.00123	1.01	05/29/2022 19:25	WG1871410
cis-1,2-Dichloroethene	U		0.000584	0.00123	1.01	05/29/2022 19:25	WG1871410
trans-1,2-Dichloroethene	U		0.000615	0.00123	1.01	05/29/2022 19:25	WG1871410
1,2-Dichloropropane	U		0.000202	0.00123	1.01	05/29/2022 19:25	WG1871410
1,1-Dichloropropene	U		0.000461	0.00123	1.01	05/29/2022 19:25	WG1871410
1,3-Dichloropropane	U		0.000276	0.00123	1.01	05/29/2022 19:25	WG1871410
cis-1,3-Dichloropropene	U		0.000522	0.00123	1.01	05/29/2022 19:25	WG1871410
trans-1,3-Dichloropropene	U		0.000830	0.00123	1.01	05/29/2022 19:25	WG1871410
2,2-Dichloropropane	U		0.000461	0.00123	1.01	05/29/2022 19:25	WG1871410
Di-isopropyl ether	U		0.000271	0.00123	1.01	05/29/2022 19:25	WG1871410
Ethylbenzene	U		0.000369	0.00123	1.01	05/29/2022 19:25	WG1871410
Hexachloro-1,3-butadiene	U		0.000420	0.00123	1.01	05/29/2022 19:25	WG1871410
Isopropylbenzene	U		0.000522	0.00123	1.01	05/29/2022 19:25	WG1871410
p-Isopropyltoluene	U		0.000251	0.00123	1.01	05/29/2022 19:25	WG1871410
2-Butanone (MEK)	0.0331	C5	0.00576	0.0123	1.01	05/29/2022 19:25	WG1871410
Methylene Chloride	U		0.00123	0.00615	1.01	05/29/2022 19:25	WG1871410
4-Methyl-2-pentanone (MIBK)	U		0.00117	0.0123	1.01	05/29/2022 19:25	WG1871410



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000430	0.00123	1.01	05/29/2022 19:25	WG1871410
Naphthalene	U		0.00612	0.00615	1.01	05/29/2022 19:25	WG1871410
n-Propylbenzene	U		0.000253	0.00123	1.01	05/29/2022 19:25	WG1871410
Styrene	U		0.000274	0.00123	1.01	05/29/2022 19:25	WG1871410
1,1,1,2-Tetrachloroethane	U		0.000364	0.00123	1.01	05/29/2022 19:25	WG1871410
1,1,2,2-Tetrachloroethane	U		0.000284	0.00123	1.01	05/29/2022 19:25	WG1871410
1,1,2-Trichlorotrifluoroethane	U		0.000523	0.00123	1.01	05/29/2022 19:25	WG1871410
Tetrachloroethene	U		0.000399	0.00123	1.01	05/29/2022 19:25	WG1871410
Toluene	U		0.00151	0.00615	1.01	05/29/2022 19:25	WG1871410
1,2,3-Trichlorobenzene	U		0.000376	0.00123	1.01	05/29/2022 19:25	WG1871410
1,2,4-Trichlorobenzene	U		0.000477	0.00123	1.01	05/29/2022 19:25	WG1871410
1,1,1-Trichloroethane	U		0.000455	0.00123	1.01	05/29/2022 19:25	WG1871410
1,1,2-Trichloroethane	U		0.000522	0.00123	1.01	05/29/2022 19:25	WG1871410
Trichloroethene	U		0.000246	0.00123	1.01	05/29/2022 19:25	WG1871410
Trichlorofluoromethane	U		0.000438	0.00615	1.01	05/29/2022 19:25	WG1871410
1,2,3-Trichloropropane	U		0.000299	0.00308	1.01	05/29/2022 19:25	WG1871410
1,2,4-Trimethylbenzene	U		0.000259	0.00123	1.01	05/29/2022 19:25	WG1871410
1,2,3-Trimethylbenzene	U		0.000353	0.00123	1.01	05/29/2022 19:25	WG1871410
Vinyl chloride	U		0.000278	0.00123	1.01	05/29/2022 19:25	WG1871410
1,3,5-Trimethylbenzene	U		0.000327	0.00123	1.01	05/29/2022 19:25	WG1871410
Xylenes, Total	U		0.000615	0.00369	1.01	05/29/2022 19:25	WG1871410
(S) Toluene-d8	101			75.0-131		05/29/2022 19:25	WG1871410
(S) 4-Bromofluorobenzene	95.6			67.0-138		05/29/2022 19:25	WG1871410
(S) 1,2-Dichloroethane-d4	100			70.0-130		05/29/2022 19:25	WG1871410



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		105	243	1	05/30/2022 15:26	WG1871174
AK103 RRO C25-C36	140	U	81.1	243	1	05/30/2022 15:26	WG1871174
(S) o-Terphenyl	74.9			50.0-150		05/30/2022 15:26	WG1871174
(S) n-Triacontane d62	74.6			50.0-150		05/30/2022 15:26	WG1871174

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00280	0.00730	1	06/01/2022 19:17	WG1872422
Acenaphthene	U		0.00254	0.00730	1	06/01/2022 19:17	WG1872422
Acenaphthylene	U		0.00263	0.00730	1	06/01/2022 19:17	WG1872422
Benzo(a)anthracene	0.00351	U	0.00211	0.00730	1	06/01/2022 19:17	WG1872422
Benzo(a)pyrene	0.00447	U	0.00218	0.00730	1	06/01/2022 19:17	WG1872422
Benzo(b)fluoranthene	0.00668	U	0.00186	0.00730	1	06/01/2022 19:17	WG1872422
Benzo(g,h,i)perylene	0.00409	U	0.00215	0.00730	1	06/01/2022 19:17	WG1872422
Benzo(k)fluoranthene	U		0.00262	0.00730	1	06/01/2022 19:17	WG1872422
Chrysene	0.00469	U	0.00282	0.00730	1	06/01/2022 19:17	WG1872422
Dibenz(a,h)anthracene	U		0.00209	0.00730	1	06/01/2022 19:17	WG1872422
Fluoranthene	0.0127		0.00276	0.00730	1	06/01/2022 19:17	WG1872422
Fluorene	U		0.00250	0.00730	1	06/01/2022 19:17	WG1872422
Indeno(1,2,3-cd)pyrene	0.00416	U	0.00220	0.00730	1	06/01/2022 19:17	WG1872422
Naphthalene	U		0.00497	0.0243	1	06/01/2022 19:17	WG1872422
Phenanthrene	0.00509	U	0.00281	0.00730	1	06/01/2022 19:17	WG1872422
Pyrene	0.00917		0.00243	0.00730	1	06/01/2022 19:17	WG1872422
1-Methylnaphthalene	U		0.00547	0.0243	1	06/01/2022 19:17	WG1872422
2-Methylnaphthalene	U		0.00520	0.0243	1	06/01/2022 19:17	WG1872422
2-Chloronaphthalene	U		0.00567	0.0243	1	06/01/2022 19:17	WG1872422

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	84.4			14.0-149		06/01/2022 19:17	WG1872422
(S) 2-Fluorobiphenyl	73.9			34.0-125		06/01/2022 19:17	WG1872422
(S) p-Terphenyl-d14	85.4			23.0-120		06/01/2022 19:17	WG1872422

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

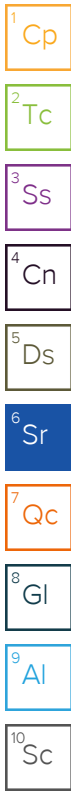
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	40.6		1	05/27/2022 17:16	WG1870548

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		3.20	8.44	1.37	05/27/2022 23:36	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	76.1			50.0-150		05/27/2022 23:36	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.428	C5	0.0576	0.139	1.13	05/29/2022 19:47	WG1871410
Acrylonitrile	U		0.00561	0.0278	1.13	05/29/2022 19:47	WG1871410
Benzene	U		0.00104	0.00278	1.13	05/29/2022 19:47	WG1871410
Bromobenzene	U		0.000765	0.00278	1.13	05/29/2022 19:47	WG1871410
Bromodichloromethane	U		0.00202	0.00278	1.13	05/29/2022 19:47	WG1871410
Bromoform	U		0.00118	0.00278	1.13	05/29/2022 19:47	WG1871410
Bromomethane	U		0.00325	0.0139	1.13	05/29/2022 19:47	WG1871410
n-Butylbenzene	U		0.000718	0.00278	1.13	05/29/2022 19:47	WG1871410
sec-Butylbenzene	U		0.000559	0.00278	1.13	05/29/2022 19:47	WG1871410
tert-Butylbenzene	U		0.000573	0.00278	1.13	05/29/2022 19:47	WG1871410
Carbon tetrachloride	U		0.000689	0.00278	1.13	05/29/2022 19:47	WG1871410
Chlorobenzene	U		0.000534	0.00278	1.13	05/29/2022 19:47	WG1871410
Chlorodibromomethane	U		0.000622	0.00278	1.13	05/29/2022 19:47	WG1871410
Chloroethane	U		0.00278	0.0139	1.13	05/29/2022 19:47	WG1871410
Chloroform	U		0.00285	0.0139	1.13	05/29/2022 19:47	WG1871410
Chloromethane	U		0.00181	0.00696	1.13	05/29/2022 19:47	WG1871410
2-Chlorotoluene	U		0.000625	0.00278	1.13	05/29/2022 19:47	WG1871410
4-Chlorotoluene	U		0.00192	0.00278	1.13	05/29/2022 19:47	WG1871410
1,2-Dibromo-3-Chloropropane	U		0.00529	0.0139	1.13	05/29/2022 19:47	WG1871410
1,2-Dibromoethane	U		0.000696	0.00278	1.13	05/29/2022 19:47	WG1871410
Dibromomethane	U		0.000974	0.00278	1.13	05/29/2022 19:47	WG1871410
1,2-Dichlorobenzene	U		0.00118	0.00278	1.13	05/29/2022 19:47	WG1871410
1,3-Dichlorobenzene	U		0.00167	0.00278	1.13	05/29/2022 19:47	WG1871410
1,4-Dichlorobenzene	U		0.00231	0.00278	1.13	05/29/2022 19:47	WG1871410
Dichlorodifluoromethane	U		0.000797	0.0139	1.13	05/29/2022 19:47	WG1871410
1,1-Dichloroethane	U		0.000745	0.00278	1.13	05/29/2022 19:47	WG1871410
1,2-Dichloroethane	U		0.00125	0.00278	1.13	05/29/2022 19:47	WG1871410
1,1-Dichloroethene	U		0.000987	0.00278	1.13	05/29/2022 19:47	WG1871410
cis-1,2-Dichloroethene	U		0.00132	0.00278	1.13	05/29/2022 19:47	WG1871410
trans-1,2-Dichloroethene	U		0.00139	0.00278	1.13	05/29/2022 19:47	WG1871410
1,2-Dichloropropane	U		0.000455	0.00278	1.13	05/29/2022 19:47	WG1871410
1,1-Dichloropropene	U		0.00104	0.00278	1.13	05/29/2022 19:47	WG1871410
1,3-Dichloropropane	U		0.000625	0.00278	1.13	05/29/2022 19:47	WG1871410
cis-1,3-Dichloropropene	U		0.00118	0.00278	1.13	05/29/2022 19:47	WG1871410
trans-1,3-Dichloropropene	U		0.00188	0.00278	1.13	05/29/2022 19:47	WG1871410
2,2-Dichloropropane	U		0.00104	0.00278	1.13	05/29/2022 19:47	WG1871410
Di-isopropyl ether	U		0.000615	0.00278	1.13	05/29/2022 19:47	WG1871410
Ethylbenzene	U		0.000834	0.00278	1.13	05/29/2022 19:47	WG1871410
Hexachloro-1,3-butadiene	U		0.000950	0.00278	1.13	05/29/2022 19:47	WG1871410
Isopropylbenzene	U		0.00118	0.00278	1.13	05/29/2022 19:47	WG1871410
p-Isopropyltoluene	U		0.000568	0.00278	1.13	05/29/2022 19:47	WG1871410
2-Butanone (MEK)	0.0159	J	0.0130	0.0278	1.13	05/29/2022 19:47	WG1871410
Methylene Chloride	U		0.00278	0.0139	1.13	05/29/2022 19:47	WG1871410
4-Methyl-2-pentanone (MIBK)	U		0.00263	0.0278	1.13	05/29/2022 19:47	WG1871410



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000974	0.00278	1.13	05/29/2022 19:47	WG1871410
Naphthalene	U		0.0139	0.0139	1.13	05/29/2022 19:47	WG1871410
n-Propylbenzene	U		0.000573	0.00278	1.13	05/29/2022 19:47	WG1871410
Styrene	U		0.000620	0.00278	1.13	05/29/2022 19:47	WG1871410
1,1,1,2-Tetrachloroethane	U		0.000822	0.00278	1.13	05/29/2022 19:47	WG1871410
1,1,2,2-Tetrachloroethane	U		0.000642	0.00278	1.13	05/29/2022 19:47	WG1871410
1,1,2-Trichlorotrifluoroethane	U		0.00118	0.00278	1.13	05/29/2022 19:47	WG1871410
Tetrachloroethene	U		0.000903	0.00278	1.13	05/29/2022 19:47	WG1871410
Toluene	U		0.00342	0.0139	1.13	05/29/2022 19:47	WG1871410
1,2,3-Trichlorobenzene	U		0.000851	0.00278	1.13	05/29/2022 19:47	WG1871410
1,2,4-Trichlorobenzene	U		0.00108	0.00278	1.13	05/29/2022 19:47	WG1871410
1,1,1-Trichloroethane	U		0.00103	0.00278	1.13	05/29/2022 19:47	WG1871410
1,1,2-Trichloroethane	U		0.00118	0.00278	1.13	05/29/2022 19:47	WG1871410
Trichloroethene	U		0.000556	0.00278	1.13	05/29/2022 19:47	WG1871410
Trichlorofluoromethane	U		0.000989	0.0139	1.13	05/29/2022 19:47	WG1871410
1,2,3-Trichloropropane	U		0.000679	0.00696	1.13	05/29/2022 19:47	WG1871410
1,2,4-Trimethylbenzene	U		0.000586	0.00278	1.13	05/29/2022 19:47	WG1871410
1,2,3-Trimethylbenzene	U		0.000797	0.00278	1.13	05/29/2022 19:47	WG1871410
Vinyl chloride	U		0.000627	0.00278	1.13	05/29/2022 19:47	WG1871410
1,3,5-Trimethylbenzene	U		0.000741	0.00278	1.13	05/29/2022 19:47	WG1871410
Xylenes, Total	U		0.00139	0.00834	1.13	05/29/2022 19:47	WG1871410
(S) Toluene-d8	104			75.0-131		05/29/2022 19:47	WG1871410
(S) 4-Bromofluorobenzene	87.1			67.0-138		05/29/2022 19:47	WG1871410
(S) 1,2-Dichloroethane-d4	92.8			70.0-130		05/29/2022 19:47	WG1871410



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	248	J	213	492	1	05/30/2022 16:43	WG1871174
AK103 RRO C25-C36	3150		164	492	1	05/30/2022 16:43	WG1871174
(S) o-Terphenyl	70.8			50.0-150		05/30/2022 16:43	WG1871174
(S) n-Triacontane d62	55.2			50.0-150		05/30/2022 16:43	WG1871174

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00566	0.0148	1	06/01/2022 20:57	WG1872422
Acenaphthene	U		0.00514	0.0148	1	06/01/2022 20:57	WG1872422
Acenaphthylene	U		0.00531	0.0148	1	06/01/2022 20:57	WG1872422
Benzo(a)anthracene	U		0.00426	0.0148	1	06/01/2022 20:57	WG1872422
Benzo(a)pyrene	U		0.00440	0.0148	1	06/01/2022 20:57	WG1872422
Benzo(b)fluoranthene	U		0.00376	0.0148	1	06/01/2022 20:57	WG1872422
Benzo(g,h,i)perylene	U		0.00435	0.0148	1	06/01/2022 20:57	WG1872422
Benzo(k)fluoranthene	U		0.00529	0.0148	1	06/01/2022 20:57	WG1872422
Chrysene	U		0.00571	0.0148	1	06/01/2022 20:57	WG1872422
Dibenz(a,h)anthracene	U		0.00423	0.0148	1	06/01/2022 20:57	WG1872422
Fluoranthene	U		0.00559	0.0148	1	06/01/2022 20:57	WG1872422
Fluorene	0.0132	J	0.00504	0.0148	1	06/01/2022 20:57	WG1872422
Indeno(1,2,3-cd)pyrene	U		0.00445	0.0148	1	06/01/2022 20:57	WG1872422
Naphthalene	U		0.0100	0.0492	1	06/01/2022 20:57	WG1872422
Phenanthrene	U		0.00568	0.0148	1	06/01/2022 20:57	WG1872422
Pyrene	U		0.00492	0.0148	1	06/01/2022 20:57	WG1872422
1-Methylnaphthalene	U		0.0110	0.0492	1	06/01/2022 20:57	WG1872422
2-Methylnaphthalene	U		0.0105	0.0492	1	06/01/2022 20:57	WG1872422
2-Chloronaphthalene	U		0.0115	0.0492	1	06/01/2022 20:57	WG1872422

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	60.0			14.0-149		06/01/2022 20:57	WG1872422
(S) 2-Fluorobiphenyl	60.9			34.0-125		06/01/2022 20:57	WG1872422
(S) p-Terphenyl-d14	69.2			23.0-120		06/01/2022 20:57	WG1872422

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	67.2		1	05/27/2022 17:16	WG1870548

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.62	4.28	1.15	05/27/2022 23:57	WG1870953
(S) a,a,a-Trifluorotoluene(FID)	76.0			50.0-150		05/27/2022 23:57	WG1870953

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.73	C5 E	0.0336	0.0811	1.09	05/29/2022 20:09	WG1871410
Acetone	U	J3 J4	1.08	2.60	25	06/02/2022 00:15	WG1872860
Acrylonitrile	U		0.00327	0.0162	1.09	05/29/2022 20:09	WG1871410
Benzene	0.00129	J	0.000609	0.00162	1.09	05/29/2022 20:09	WG1871410
Bromobenzene	U		0.000446	0.00162	1.09	05/29/2022 20:09	WG1871410
Bromodichloromethane	U		0.00118	0.00162	1.09	05/29/2022 20:09	WG1871410
Bromoform	U		0.000687	0.00162	1.09	05/29/2022 20:09	WG1871410
Bromomethane	U		0.00190	0.00811	1.09	05/29/2022 20:09	WG1871410
n-Butylbenzene	U		0.000418	0.00162	1.09	05/29/2022 20:09	WG1871410
sec-Butylbenzene	U		0.000326	0.00162	1.09	05/29/2022 20:09	WG1871410
tert-Butylbenzene	U		0.000335	0.00162	1.09	05/29/2022 20:09	WG1871410
Carbon tetrachloride	U		0.000402	0.00162	1.09	05/29/2022 20:09	WG1871410
Chlorobenzene	U		0.000311	0.00162	1.09	05/29/2022 20:09	WG1871410
Chlorodibromomethane	U		0.000363	0.00162	1.09	05/29/2022 20:09	WG1871410
Chloroethane	U		0.00162	0.00811	1.09	05/29/2022 20:09	WG1871410
Chloroform	U		0.00167	0.00811	1.09	05/29/2022 20:09	WG1871410
Chloromethane	U		0.00105	0.00406	1.09	05/29/2022 20:09	WG1871410
2-Chlorotoluene	U		0.000365	0.00162	1.09	05/29/2022 20:09	WG1871410
4-Chlorotoluene	U		0.00112	0.00162	1.09	05/29/2022 20:09	WG1871410
1,2-Dibromo-3-Chloropropane	U		0.00308	0.00811	1.09	05/29/2022 20:09	WG1871410
1,2-Dibromoethane	U		0.000406	0.00162	1.09	05/29/2022 20:09	WG1871410
Dibromomethane	U		0.000567	0.00162	1.09	05/29/2022 20:09	WG1871410
1,2-Dichlorobenzene	U		0.000689	0.00162	1.09	05/29/2022 20:09	WG1871410
1,3-Dichlorobenzene	U		0.000973	0.00162	1.09	05/29/2022 20:09	WG1871410
1,4-Dichlorobenzene	U		0.00135	0.00162	1.09	05/29/2022 20:09	WG1871410
Dichlorodifluoromethane	U		0.000466	0.00811	1.09	05/29/2022 20:09	WG1871410
1,1-Dichloroethane	U		0.000434	0.00162	1.09	05/29/2022 20:09	WG1871410
1,2-Dichloroethane	U		0.000730	0.00162	1.09	05/29/2022 20:09	WG1871410
1,1-Dichloroethene	U		0.000576	0.00162	1.09	05/29/2022 20:09	WG1871410
cis-1,2-Dichloroethene	U		0.000771	0.00162	1.09	05/29/2022 20:09	WG1871410
trans-1,2-Dichloroethene	U		0.000811	0.00162	1.09	05/29/2022 20:09	WG1871410
1,2-Dichloropropane	U		0.000266	0.00162	1.09	05/29/2022 20:09	WG1871410
1,1-Dichloropropene	U		0.000609	0.00162	1.09	05/29/2022 20:09	WG1871410
1,3-Dichloropropane	U		0.000365	0.00162	1.09	05/29/2022 20:09	WG1871410
cis-1,3-Dichloropropene	U		0.000689	0.00162	1.09	05/29/2022 20:09	WG1871410
trans-1,3-Dichloropropene	U		0.00110	0.00162	1.09	05/29/2022 20:09	WG1871410
2,2-Dichloropropane	U		0.000609	0.00162	1.09	05/29/2022 20:09	WG1871410
Di-isopropyl ether	U		0.000359	0.00162	1.09	05/29/2022 20:09	WG1871410
Ethylbenzene	U		0.000487	0.00162	1.09	05/29/2022 20:09	WG1871410
Hexachloro-1,3-butadiene	U		0.000555	0.00162	1.09	05/29/2022 20:09	WG1871410
Isopropylbenzene	U		0.000689	0.00162	1.09	05/29/2022 20:09	WG1871410
p-Isopropyltoluene	0.000420	J	0.000330	0.00162	1.09	05/29/2022 20:09	WG1871410
2-Butanone (MEK)	0.0609	C5	0.00759	0.0162	1.09	05/29/2022 20:09	WG1871410
Methylene Chloride	U		0.00162	0.00811	1.09	05/29/2022 20:09	WG1871410



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	0.0133	J	0.00155	0.0162	1.09	05/29/2022 20:09	WG1871410
Methyl tert-butyl ether	U		0.000567	0.00162	1.09	05/29/2022 20:09	WG1871410
Naphthalene	U		0.00808	0.00811	1.09	05/29/2022 20:09	WG1871410
n-Propylbenzene	U		0.000335	0.00162	1.09	05/29/2022 20:09	WG1871410
Styrene	U		0.000362	0.00162	1.09	05/29/2022 20:09	WG1871410
1,1,1,2-Tetrachloroethane	U		0.000481	0.00162	1.09	05/29/2022 20:09	WG1871410
1,1,2,2-Tetrachloroethane	U		0.000375	0.00162	1.09	05/29/2022 20:09	WG1871410
1,1,2-Trichlorotrifluoroethane	U		0.000690	0.00162	1.09	05/29/2022 20:09	WG1871410
Tetrachloroethene	U		0.000527	0.00162	1.09	05/29/2022 20:09	WG1871410
Toluene	U		0.00199	0.00811	1.09	05/29/2022 20:09	WG1871410
1,2,3-Trichlorobenzene	U		0.000497	0.00162	1.09	05/29/2022 20:09	WG1871410
1,2,4-Trichlorobenzene	U		0.000629	0.00162	1.09	05/29/2022 20:09	WG1871410
1,1,1-Trichloroethane	U		0.000600	0.00162	1.09	05/29/2022 20:09	WG1871410
1,1,2-Trichloroethane	U		0.000689	0.00162	1.09	05/29/2022 20:09	WG1871410
Trichloroethene	U		0.000324	0.00162	1.09	05/29/2022 20:09	WG1871410
Trichlorofluoromethane	U		0.000577	0.00811	1.09	05/29/2022 20:09	WG1871410
1,2,3-Trichloropropane	U		0.000396	0.00406	1.09	05/29/2022 20:09	WG1871410
1,2,4-Trimethylbenzene	U		0.000342	0.00162	1.09	05/29/2022 20:09	WG1871410
1,2,3-Trimethylbenzene	U		0.000466	0.00162	1.09	05/29/2022 20:09	WG1871410
Vinyl chloride	U		0.000366	0.00162	1.09	05/29/2022 20:09	WG1871410
1,3,5-Trimethylbenzene	U		0.000431	0.00162	1.09	05/29/2022 20:09	WG1871410
Xylenes, Total	U		0.000811	0.00487	1.09	05/29/2022 20:09	WG1871410
(S) Toluene-d8	179	J1		75.0-131		05/29/2022 20:09	WG1871410
(S) Toluene-d8	114			75.0-131		06/02/2022 00:15	WG1872860
(S) 4-Bromofluorobenzene	96.2			67.0-138		05/29/2022 20:09	WG1871410
(S) 4-Bromofluorobenzene	93.7			67.0-138		06/02/2022 00:15	WG1872860
(S) 1,2-Dichloroethane-d4	135	J1		70.0-130		05/29/2022 20:09	WG1871410
(S) 1,2-Dichloroethane-d4	90.8			70.0-130		06/02/2022 00:15	WG1872860

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		129	298	1	05/30/2022 16:18	WG1871174
AK103 RRO C25-C36	390		99.1	298	1	05/30/2022 16:18	WG1871174
(S) o-Terphenyl	65.8			50.0-150		05/30/2022 16:18	WG1871174
(S) n-Triacontane d62	76.4			50.0-150		05/30/2022 16:18	WG1871174

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00342	0.00893	1	06/01/2022 20:17	WG1872422
Acenaphthene	U		0.00311	0.00893	1	06/01/2022 20:17	WG1872422
Acenaphthylene	U		0.00321	0.00893	1	06/01/2022 20:17	WG1872422
Benzo(a)anthracene	0.00384	J	0.00257	0.00893	1	06/01/2022 20:17	WG1872422
Benzo(a)pyrene	0.00402	J	0.00266	0.00893	1	06/01/2022 20:17	WG1872422
Benzo(b)fluoranthene	0.00722	J	0.00228	0.00893	1	06/01/2022 20:17	WG1872422
Benzo(g,h,i)perylene	0.00649	J	0.00263	0.00893	1	06/01/2022 20:17	WG1872422
Benzo(k)fluoranthene	U		0.00320	0.00893	1	06/01/2022 20:17	WG1872422
Chrysene	0.00460	J	0.00345	0.00893	1	06/01/2022 20:17	WG1872422
Dibenz(a,h)anthracene	U		0.00256	0.00893	1	06/01/2022 20:17	WG1872422
Fluoranthene	0.0118		0.00338	0.00893	1	06/01/2022 20:17	WG1872422
Fluorene	U		0.00305	0.00893	1	06/01/2022 20:17	WG1872422
Indeno(1,2,3-cd)pyrene	0.00451	J	0.00269	0.00893	1	06/01/2022 20:17	WG1872422
Naphthalene	U		0.00607	0.0298	1	06/01/2022 20:17	WG1872422
Phenanthrene	0.00442	J	0.00344	0.00893	1	06/01/2022 20:17	WG1872422

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Pyrene	0.00815	J	0.00298	0.00893	1	06/01/2022 20:17	WG1872422
1-Methylnaphthalene	U		0.00668	0.0298	1	06/01/2022 20:17	WG1872422
2-Methylnaphthalene	U		0.00635	0.0298	1	06/01/2022 20:17	WG1872422
2-Chloronaphthalene	U		0.00693	0.0298	1	06/01/2022 20:17	WG1872422
(S) Nitrobenzene-d5	74.4			14.0-149		06/01/2022 20:17	WG1872422
(S) 2-Fluorobiphenyl	75.4			34.0-125		06/01/2022 20:17	WG1872422
(S) p-Terphenyl-d14	87.3			23.0-120		06/01/2022 20:17	WG1872422

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

TRIP BLANK

Collected date/time: 05/19/22 00:00

SAMPLE RESULTS - 10

L1496684

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
TPHGAK C6 to C10	U		28.7	100	1	05/26/2022 10:21	WG1869856
(S) a,a,a-Trifluorotoluene(FID)	87.7			50.0-150		05/26/2022 10:21	WG1869856

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	ug/l		ug/l	ug/l		date / time	
Acetone	U		11.3	25.0	1	06/02/2022 19:56	WG1873338
Acrylonitrile	U		0.671	5.00	1	06/02/2022 19:56	WG1873338
Benzene	U		0.0941	0.500	1	06/02/2022 19:56	WG1873338
Bromobenzene	U		0.118	0.500	1	06/02/2022 19:56	WG1873338
Bromodichloromethane	U		0.136	0.500	1	06/02/2022 19:56	WG1873338
Bromochloromethane	U		0.128	0.500	1	06/02/2022 19:56	WG1873338
Bromoform	U		0.129	0.500	1	06/02/2022 19:56	WG1873338
Bromomethane	U	C3	0.605	2.50	1	06/02/2022 19:56	WG1873338
n-Butylbenzene	U		0.157	0.500	1	06/02/2022 19:56	WG1873338
sec-Butylbenzene	U		0.125	0.500	1	06/02/2022 19:56	WG1873338
tert-Butylbenzene	U		0.127	0.500	1	06/02/2022 19:56	WG1873338
Carbon disulfide	U		0.0962	0.500	1	06/02/2022 19:56	WG1873338
Carbon tetrachloride	U		0.128	0.500	1	06/02/2022 19:56	WG1873338
Chlorobenzene	U		0.117	0.500	1	06/02/2022 19:56	WG1873338
Chlorodibromomethane	U		0.140	0.500	1	06/02/2022 19:56	WG1873338
Chloroethane	U	C3	0.192	2.50	1	06/02/2022 19:56	WG1873338
Chloroform	U		0.111	0.500	1	06/02/2022 19:56	WG1873338
Chloromethane	U		0.960	1.25	1	06/02/2022 19:56	WG1873338
2-Chlorotoluene	U		0.106	0.500	1	06/02/2022 19:56	WG1873338
4-Chlorotoluene	U		0.114	0.500	1	06/02/2022 19:56	WG1873338
1,2-Dibromo-3-Chloropropane	U		0.276	2.50	1	06/02/2022 19:56	WG1873338
1,2-Dibromoethane	U		0.126	0.500	1	06/02/2022 19:56	WG1873338
Dibromomethane	U		0.122	0.500	1	06/02/2022 19:56	WG1873338
1,2-Dichlorobenzene	U		0.107	0.500	1	06/02/2022 19:56	WG1873338
1,3-Dichlorobenzene	U		0.299	0.500	1	06/02/2022 19:56	WG1873338
1,4-Dichlorobenzene	U		0.120	0.500	1	06/02/2022 19:56	WG1873338
Dichlorodifluoromethane	U	C3	0.374	2.50	1	06/02/2022 19:56	WG1873338
1,1-Dichloroethane	U		0.100	0.500	1	06/02/2022 19:56	WG1873338
1,2-Dichloroethane	U		0.0819	0.500	1	06/02/2022 19:56	WG1873338
1,1-Dichloroethene	U		0.188	0.500	1	06/02/2022 19:56	WG1873338
cis-1,2-Dichloroethene	U		0.126	0.500	1	06/02/2022 19:56	WG1873338
trans-1,2-Dichloroethene	U		0.149	0.500	1	06/02/2022 19:56	WG1873338
1,2-Dichloropropane	U		0.149	0.500	1	06/02/2022 19:56	WG1873338
1,1-Dichloropropene	U		0.142	0.500	1	06/02/2022 19:56	WG1873338
1,3-Dichloropropane	U		0.109	1.00	1	06/02/2022 19:56	WG1873338
cis-1,3-Dichloropropene	U		0.111	0.500	1	06/02/2022 19:56	WG1873338
trans-1,3-Dichloropropene	U		0.118	0.500	1	06/02/2022 19:56	WG1873338
trans-1,4-Dichloro-2-butene	U		0.467	5.00	1	06/02/2022 19:56	WG1873338
2,2-Dichloropropane	U		0.161	0.500	1	06/02/2022 19:56	WG1873338
Di-isopropyl ether	U		0.105	0.500	1	06/02/2022 19:56	WG1873338
Ethylbenzene	U		0.137	0.500	1	06/02/2022 19:56	WG1873338
Hexachloro-1,3-butadiene	U		0.337	1.00	1	06/02/2022 19:56	WG1873338
2-Hexanone	U		0.787	5.00	1	06/02/2022 19:56	WG1873338
n-Hexane	U		0.749	5.00	1	06/02/2022 19:56	WG1873338
Iodomethane	U		0.554	5.00	1	06/02/2022 19:56	WG1873338
Isopropylbenzene	U		0.105	0.500	1	06/02/2022 19:56	WG1873338
p-Isopropyltoluene	U		0.120	0.500	1	06/02/2022 19:56	WG1873338
2-Butanone (MEK)	U		1.19	5.00	1	06/02/2022 19:56	WG1873338
Methylene Chloride	U		0.430	2.50	1	06/02/2022 19:56	WG1873338

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

ACCOUNT:

BGES, Inc. - Anchorage, AK

PROJECT:

HOMER AIRPORT

SDG:

L1496684

DATE/TIME:

06/03/22 09:04

PAGE:

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Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result ug/l	Qualifier	MDL ug/l	RDL ug/l	Dilution	Analysis date / time	Batch
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00	1	06/02/2022 19:56	WG1873338
Methyl tert-butyl ether	U		0.101	0.500	1	06/02/2022 19:56	WG1873338
Naphthalene	U		0.174	2.50	1	06/02/2022 19:56	WG1873338
n-Propylbenzene	U		0.0993	0.500	1	06/02/2022 19:56	WG1873338
Styrene	U		0.118	0.500	1	06/02/2022 19:56	WG1873338
1,1,1,2-Tetrachloroethane	U		0.147	0.500	1	06/02/2022 19:56	WG1873338
1,1,2,2-Tetrachloroethane	U		0.133	0.500	1	06/02/2022 19:56	WG1873338
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500	1	06/02/2022 19:56	WG1873338
Tetrachloroethene	U		0.300	0.500	1	06/02/2022 19:56	WG1873338
Toluene	U		0.278	0.500	1	06/02/2022 19:56	WG1873338
1,2,3-Trichlorobenzene	U		0.164	0.500	1	06/02/2022 19:56	WG1873338
1,2,4-Trichlorobenzene	U		0.481	1.00	1	06/02/2022 19:56	WG1873338
1,1,1-Trichloroethane	U		0.149	0.500	1	06/02/2022 19:56	WG1873338
1,1,2-Trichloroethane	U		0.158	0.500	1	06/02/2022 19:56	WG1873338
Trichloroethene	U		0.190	0.500	1	06/02/2022 19:56	WG1873338
Trichlorofluoromethane	U	<u>C3</u>	0.160	2.50	1	06/02/2022 19:56	WG1873338
1,2,3-Trichloropropane	U		0.237	2.50	1	06/02/2022 19:56	WG1873338
1,2,4-Trimethylbenzene	U		0.322	0.500	1	06/02/2022 19:56	WG1873338
1,2,3-Trimethylbenzene	U		0.104	0.500	1	06/02/2022 19:56	WG1873338
1,3,5-Trimethylbenzene	U		0.104	0.500	1	06/02/2022 19:56	WG1873338
Vinyl acetate	U		0.692	5.00	1	06/02/2022 19:56	WG1873338
Vinyl chloride	U		0.234	0.500	1	06/02/2022 19:56	WG1873338
Xylenes, Total	0.208	<u>J</u>	0.174	1.50	1	06/02/2022 19:56	WG1873338
(S) Toluene-d8	112			80.0-120		06/02/2022 19:56	WG1873338
(S) 4-Bromofluorobenzene	97.4			77.0-126		06/02/2022 19:56	WG1873338
(S) 1,2-Dichloroethane-d4	86.7			70.0-130		06/02/2022 19:56	WG1873338

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3797089-1 05/27/22 09:21

Analyte	MB Result %	<u>MB Qualifier</u>	MB MDL %	MB RDL %
Total Solids	0.00100			

L1496340-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1496340-02 05/27/22 09:21 • (DUP) R3797089-3 05/27/22 09:21

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	<u>DUP Qualifier</u>	DUP RPD Limits
Total Solids	93.1	93.1	1	0.0419		10

Laboratory Control Sample (LCS)

(LCS) R3797089-2 05/27/22 09:21

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Total Solids	50.0	50.0	99.9	85.0-115	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3797101-1 05/27/22 17:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.000			

¹Cp

²Tc

³Ss

L1496684-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1496684-06 05/27/22 17:16 • (DUP) R3797101-3 05/27/22 17:16

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	60.3	60.9	1	0.996		10

⁴Cn

⁵Ds

Laboratory Control Sample (LCS)

(LCS) R3797101-2 05/27/22 17:16

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3797143-3 05/26/22 08:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHGAK C6 to C10	43.3	J	28.7	100
^(S) a,a,a-Trifluorotoluene(FID)	86.4			60.0-120

¹ Cp

² Tc

³ Ss

⁴ Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3797143-1 05/26/22 07:18 • (LCSD) R3797143-2 05/26/22 07:39

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	5000	4190	4320	83.8	86.4	60.0-120			3.06	20
^(S) a,a,a-Trifluorotoluene(FID)				97.1	93.0	60.0-120				

⁵ Ds

⁶ Sr

⁷ Qc

L1495907-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1495907-03 05/26/22 11:47 • (MS) R3797143-4 05/26/22 12:30 • (MSD) R3797143-5 05/26/22 12:52

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	5000	U	720	1150	14.4	23.0	1	70.0-130	J6	J3 J6	46.0	20
^(S) a,a,a-Trifluorotoluene(FID)					90.2	87.5		50.0-150				

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3797941-2 05/27/22 18:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHGAK C6 to C10	1.18	↓	0.950	2.50
(S) a,a,a-Trifluorotoluene(FID)	83.1			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3797941-1 05/27/22 17:10 • (LCSD) R3797941-5 05/28/22 01:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	125	115	109	92.0	87.2	60.0-120			5.36	20
(S) a,a,a-Trifluorotoluene(FID)				93.0	91.5	60.0-120				

L1496456-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496456-03 05/27/22 19:39 • (MS) R3797941-3 05/28/22 00:19 • (MSD) R3797941-4 05/28/22 00:40

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	200	1.84	173	179	85.8	88.8	1.33	60.0-120			3.41	30
(S) a,a,a-Trifluorotoluene(FID)					82.7	80.0		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3797796-3 05/29/22 14:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3797796-3 05/29/22 14:16

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,2,3-Trimethylbenzene	U		0.000287	0.00100
Vinyl chloride	U		0.000226	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	95.2			75.0-131
(S) 4-Bromofluorobenzene	97.9			67.0-138
(S) 1,2-Dichloroethane-d4	101			70.0-130

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Laboratory Control Sample (LCS)

(LCS) R3797796-1 05/29/22 12:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.123	98.4	10.0-160	
Acrylonitrile	0.125	0.128	102	45.0-153	
Benzene	0.0250	0.0225	90.0	70.0-123	
Bromobenzene	0.0250	0.0232	92.8	73.0-121	
Bromodichloromethane	0.0250	0.0244	97.6	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3797796-1 05/29/22 12:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.0250	0.0252	101	64.0-132	
Bromomethane	0.0250	0.0205	82.0	56.0-147	
n-Butylbenzene	0.0250	0.0227	90.8	68.0-135	
sec-Butylbenzene	0.0250	0.0224	89.6	74.0-130	
tert-Butylbenzene	0.0250	0.0224	89.6	75.0-127	
Carbon tetrachloride	0.0250	0.0226	90.4	66.0-128	
Chlorobenzene	0.0250	0.0233	93.2	76.0-128	
Chlorodibromomethane	0.0250	0.0245	98.0	74.0-127	
Chloroethane	0.0250	0.0202	80.8	61.0-134	
Chloroform	0.0250	0.0230	92.0	72.0-123	
Chloromethane	0.0250	0.0202	80.8	51.0-138	
2-Chlorotoluene	0.0250	0.0228	91.2	75.0-124	
4-Chlorotoluene	0.0250	0.0226	90.4	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0251	100	59.0-130	
1,2-Dibromoethane	0.0250	0.0250	100	74.0-128	
Dibromomethane	0.0250	0.0252	101	75.0-122	
1,2-Dichlorobenzene	0.0250	0.0241	96.4	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0234	93.6	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0234	93.6	77.0-121	
Dichlorodifluoromethane	0.0250	0.0201	80.4	43.0-156	
1,1-Dichloroethane	0.0250	0.0226	90.4	70.0-127	
1,2-Dichloroethane	0.0250	0.0236	94.4	65.0-131	
1,1-Dichloroethene	0.0250	0.0218	87.2	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0234	93.6	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0223	89.2	71.0-125	
1,2-Dichloropropane	0.0250	0.0242	96.8	74.0-125	
1,1-Dichloropropene	0.0250	0.0222	88.8	73.0-125	
1,3-Dichloropropane	0.0250	0.0252	101	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0248	99.2	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0258	103	73.0-127	
2,2-Dichloropropane	0.0250	0.0217	86.8	59.0-135	
Di-isopropyl ether	0.0250	0.0234	93.6	60.0-136	
Ethylbenzene	0.0250	0.0230	92.0	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0226	90.4	57.0-150	
Isopropylbenzene	0.0250	0.0229	91.6	72.0-127	
p-Isopropyltoluene	0.0250	0.0232	92.8	72.0-133	
2-Butanone (MEK)	0.125	0.123	98.4	30.0-160	
Methylene Chloride	0.0250	0.0228	91.2	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.126	101	56.0-143	
Methyl tert-butyl ether	0.0250	0.0251	100	66.0-132	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS)

(LCS) R3797796-1 05/29/22 12:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.0250	0.0242	96.8	59.0-130	
n-Propylbenzene	0.0250	0.0231	92.4	74.0-126	
Styrene	0.0250	0.0244	97.6	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0239	95.6	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0249	99.6	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0220	88.0	61.0-139	
Tetrachloroethene	0.0250	0.0227	90.8	70.0-136	
Toluene	0.0250	0.0229	91.6	75.0-121	
1,2,3-Trichlorobenzene	0.0250	0.0246	98.4	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0248	99.2	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0225	90.0	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0243	97.2	78.0-123	
Trichloroethene	0.0250	0.0229	91.6	76.0-126	
Trichlorofluoromethane	0.0250	0.0210	84.0	61.0-142	
1,2,3-Trichloropropane	0.0250	0.0254	102	67.0-129	
1,2,4-Trimethylbenzene	0.0250	0.0236	94.4	70.0-126	
1,2,3-Trimethylbenzene	0.0250	0.0217	86.8	74.0-124	
Vinyl chloride	0.0250	0.0202	80.8	63.0-134	
1,3,5-Trimethylbenzene	0.0250	0.0229	91.6	73.0-127	
Xylenes, Total	0.0750	0.0696	92.8	72.0-127	
(S) Toluene-d8			95.6	75.0-131	
(S) 4-Bromofluorobenzene			99.2	67.0-138	
(S) 1,2-Dichloroethane-d4			95.8	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3798277-2 06/01/22 12:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798277-2 06/01/22 12:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,2,3-Trimethylbenzene	U		0.000287	0.00100
Vinyl chloride	U		0.000226	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	99.4			75.0-131
(S) 4-Bromofluorobenzene	99.7			67.0-138
(S) 1,2-Dichloroethane-d4	98.0			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3798277-1 06/01/22 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.123	98.4	10.0-160	
Acrylonitrile	0.125	0.120	96.0	45.0-153	
Benzene	0.0250	0.0219	87.6	70.0-123	
Bromobenzene	0.0250	0.0228	91.2	73.0-121	
Bromodichloromethane	0.0250	0.0234	93.6	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3798277-1 06/01/22 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.0250	0.0262	105	64.0-132	
Bromomethane	0.0250	0.0215	86.0	56.0-147	
n-Butylbenzene	0.0250	0.0225	90.0	68.0-135	
sec-Butylbenzene	0.0250	0.0225	90.0	74.0-130	
tert-Butylbenzene	0.0250	0.0224	89.6	75.0-127	
Carbon tetrachloride	0.0250	0.0221	88.4	66.0-128	
Chlorobenzene	0.0250	0.0226	90.4	76.0-128	
Chlorodibromomethane	0.0250	0.0251	100	74.0-127	
Chloroethane	0.0250	0.0209	83.6	61.0-134	
Chloroform	0.0250	0.0224	89.6	72.0-123	
Chloromethane	0.0250	0.0192	76.8	51.0-138	
2-Chlorotoluene	0.0250	0.0231	92.4	75.0-124	
4-Chlorotoluene	0.0250	0.0232	92.8	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0265	106	59.0-130	
1,2-Dibromoethane	0.0250	0.0252	101	74.0-128	
Dibromomethane	0.0250	0.0237	94.8	75.0-122	
1,2-Dichlorobenzene	0.0250	0.0228	91.2	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0233	93.2	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0220	88.0	77.0-121	
Dichlorodifluoromethane	0.0250	0.0191	76.4	43.0-156	
1,1-Dichloroethane	0.0250	0.0222	88.8	70.0-127	
1,2-Dichloroethane	0.0250	0.0225	90.0	65.0-131	
1,1-Dichloroethene	0.0250	0.0207	82.8	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0223	89.2	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0209	83.6	71.0-125	
1,2-Dichloropropane	0.0250	0.0239	95.6	74.0-125	
1,1-Dichloropropene	0.0250	0.0212	84.8	73.0-125	
1,3-Dichloropropane	0.0250	0.0234	93.6	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0240	96.0	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0245	98.0	73.0-127	
2,2-Dichloropropane	0.0250	0.0227	90.8	59.0-135	
Di-isopropyl ether	0.0250	0.0228	91.2	60.0-136	
Ethylbenzene	0.0250	0.0221	88.4	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0189	75.6	57.0-150	
Isopropylbenzene	0.0250	0.0220	88.0	72.0-127	
p-Isopropyltoluene	0.0250	0.0223	89.2	72.0-133	
2-Butanone (MEK)	0.125	0.120	96.0	30.0-160	
Methylene Chloride	0.0250	0.0205	82.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.139	111	56.0-143	
Methyl tert-butyl ether	0.0250	0.0234	93.6	66.0-132	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS)

(LCS) R3798277-1 06/01/22 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.0250	0.0206	82.4	59.0-130	
n-Propylbenzene	0.0250	0.0227	90.8	74.0-126	
Styrene	0.0250	0.0234	93.6	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0234	93.6	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0252	101	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0213	85.2	61.0-139	
Tetrachloroethene	0.0250	0.0214	85.6	70.0-136	
Toluene	0.0250	0.0210	84.0	75.0-121	
1,2,3-Trichlorobenzene	0.0250	0.0181	72.4	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0213	85.2	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0225	90.0	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0239	95.6	78.0-123	
Trichloroethene	0.0250	0.0222	88.8	76.0-126	
Trichlorofluoromethane	0.0250	0.0216	86.4	61.0-142	
1,2,3-Trichloropropane	0.0250	0.0245	98.0	67.0-129	
1,2,4-Trimethylbenzene	0.0250	0.0229	91.6	70.0-126	
1,2,3-Trimethylbenzene	0.0250	0.0224	89.6	74.0-124	
Vinyl chloride	0.0250	0.0195	78.0	63.0-134	
1,3,5-Trimethylbenzene	0.0250	0.0223	89.2	73.0-127	
Xylenes, Total	0.0750	0.0667	88.9	72.0-127	
<i>(S) Toluene-d8</i>			97.3	75.0-131	
<i>(S) 4-Bromofluorobenzene</i>			98.3	67.0-138	
<i>(S) 1,2-Dichloroethane-d4</i>			106	70.0-130	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3797999-3 05/31/22 20:21

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Acetone	U		0.518	1.25
2-Butanone (MEK)	U		0.117	0.250
(S) Toluene-d8	115			75.0-131
(S) 4-Bromofluorobenzene	101			67.0-138
(S) 1,2-Dichloroethane-d4	99.8			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3797999-1 05/31/22 19:06 • (LCSD) R3797999-2 05/31/22 19:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Acetone	0.0250	0.0251	0.0241	100	96.4	10.0-160			4.07	31
2-Butanone (MEK)	0.0250	0.0278	0.0272	111	109	30.0-160			2.18	24
(S) Toluene-d8				111	111	75.0-131				
(S) 4-Bromofluorobenzene				102	100	67.0-138				
(S) 1,2-Dichloroethane-d4				107	106	70.0-130				



Method Blank (MB)

(MB) R3798484-3 06/01/22 23:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.518	1.25
(S) Toluene-d8	114			75.0-131
(S) 4-Bromofluorobenzene	93.2			67.0-138
(S) 1,2-Dichloroethane-d4	94.9			70.0-130

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3798484-1 06/01/22 21:33 • (LCSD) R3798484-2 06/01/22 21:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0230	U	92.0	0.000	10.0-160		J3 J4	200	31
(S) Toluene-d8				105	109	75.0-131				
(S) 4-Bromofluorobenzene				97.1	100	67.0-138				
(S) 1,2-Dichloroethane-d4				101	104	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798937-3 06/02/22 12:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		11.3	25.0
Acrylonitrile	U		0.671	5.00
Benzene	U		0.0941	0.500
Bromobenzene	U		0.118	0.500
Bromodichloromethane	U		0.136	0.500
Bromochloromethane	U		0.128	0.500
Bromoform	U		0.129	0.500
Bromomethane	U		0.605	2.50
n-Butylbenzene	U		0.157	0.500
sec-Butylbenzene	U		0.125	0.500
tert-Butylbenzene	U		0.127	0.500
Carbon disulfide	U		0.0962	0.500
Carbon tetrachloride	U		0.128	0.500
Chlorobenzene	U		0.117	0.500
Chlorodibromomethane	U		0.140	0.500
Chloroethane	U		0.192	2.50
Chloroform	U		0.111	0.500
Chloromethane	U		0.960	1.25
2-Chlorotoluene	U		0.106	0.500
4-Chlorotoluene	U		0.114	0.500
1,2-Dibromo-3-Chloropropane	U		0.276	2.50
1,2-Dibromoethane	U		0.126	0.500
Dibromomethane	U		0.122	0.500
1,2-Dichlorobenzene	U		0.107	0.500
1,3-Dichlorobenzene	U		0.299	0.500
1,4-Dichlorobenzene	U		0.120	0.500
Dichlorodifluoromethane	U		0.374	2.50
1,1-Dichloroethane	U		0.100	0.500
1,2-Dichloroethane	U		0.0819	0.500
1,1-Dichloroethene	U		0.188	0.500
cis-1,2-Dichloroethene	U		0.126	0.500
trans-1,2-Dichloroethene	U		0.149	0.500
1,2-Dichloropropane	U		0.149	0.500
1,1-Dichloropropene	U		0.142	0.500
1,3-Dichloropropane	U		0.109	1.00
cis-1,3-Dichloropropene	U		0.111	0.500
trans-1,3-Dichloropropene	U		0.118	0.500
trans-1,4-Dichloro-2-butene	U		0.467	5.00
2,2-Dichloropropane	U		0.161	0.500
Di-isopropyl ether	U		0.105	0.500

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798937-3 06/02/22 12:33

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Ethylbenzene	U		0.137	0.500
Hexachloro-1,3-butadiene	U		0.337	1.00
2-Hexanone	U		0.787	5.00
n-Hexane	U		0.749	5.00
Iodomethane	U		0.554	5.00
Isopropylbenzene	U		0.105	0.500
p-Isopropyltoluene	U		0.120	0.500
2-Butanone (MEK)	U		1.19	5.00
Methylene Chloride	U		0.430	2.50
4-Methyl-2-pentanone (MIBK)	U		0.478	5.00
Methyl tert-butyl ether	U		0.101	0.500
Naphthalene	U		0.174	2.50
n-Propylbenzene	U		0.0993	0.500
Styrene	U		0.118	0.500
1,1,1,2-Tetrachloroethane	U		0.147	0.500
1,1,2,2-Tetrachloroethane	U		0.133	0.500
1,1,2-Trichlorotrifluoroethane	U		0.180	0.500
Tetrachloroethene	U		0.300	0.500
Toluene	U		0.278	0.500
1,2,3-Trichlorobenzene	U		0.164	0.500
1,2,4-Trichlorobenzene	U		0.481	1.00
1,1,1-Trichloroethane	U		0.149	0.500
1,1,2-Trichloroethane	U		0.158	0.500
Trichloroethene	U		0.190	0.500
Trichlorofluoromethane	U		0.160	2.50
1,2,3-Trichloropropane	U		0.237	2.50
1,2,4-Trimethylbenzene	U		0.322	0.500
1,2,3-Trimethylbenzene	U		0.104	0.500
1,3,5-Trimethylbenzene	U		0.104	0.500
Vinyl acetate	U		0.692	5.00
Vinyl chloride	U		0.234	0.500
Xylenes, Total	U		0.174	1.50
(S) Toluene-d8	117			80.0-120
(S) 4-Bromofluorobenzene	99.6			77.0-126
(S) 1,2-Dichloroethane-d4	88.3			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3798937-1 06/02/22 11:35 • (LCSD) R3798937-2 06/02/22 11:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	25.0	26.4	23.5	106	94.0	19.0-160			11.6	27
Acrylonitrile	25.0	25.3	24.2	101	96.8	55.0-149			4.44	20
Benzene	5.00	4.95	5.06	99.0	101	70.0-123			2.20	20
Bromobenzene	5.00	5.74	5.56	115	111	73.0-121			3.19	20
Bromodichloromethane	5.00	4.93	4.90	98.6	98.0	75.0-120			0.610	20
Bromochloromethane	5.00	5.05	4.94	101	98.8	76.0-122			2.20	20
Bromoform	5.00	5.19	5.41	104	108	68.0-132			4.15	20
Bromomethane	5.00	3.63	3.79	72.6	75.8	10.0-160			4.31	25
n-Butylbenzene	5.00	4.64	4.52	92.8	90.4	73.0-125			2.62	20
sec-Butylbenzene	5.00	4.92	4.98	98.4	99.6	75.0-125			1.21	20
tert-Butylbenzene	5.00	5.03	5.11	101	102	76.0-124			1.58	20
Carbon disulfide	5.00	4.75	5.00	95.0	100	61.0-128			5.13	20
Carbon tetrachloride	5.00	4.95	5.05	99.0	101	68.0-126			2.00	20
Chlorobenzene	5.00	5.32	5.49	106	110	80.0-121			3.15	20
Chlorodibromomethane	5.00	5.30	5.63	106	113	77.0-125			6.04	20
Chloroethane	5.00	3.93	4.04	78.6	80.8	47.0-150			2.76	20
Chloroform	5.00	4.78	4.79	95.6	95.8	73.0-120			0.209	20
Chloromethane	5.00	4.07	4.05	81.4	81.0	41.0-142			0.493	20
2-Chlorotoluene	5.00	5.39	5.29	108	106	76.0-123			1.87	20
4-Chlorotoluene	5.00	5.16	5.16	103	103	75.0-122			0.000	20
1,2-Dibromo-3-Chloropropane	5.00	5.29	4.86	106	97.2	58.0-134			8.47	20
1,2-Dibromoethane	5.00	5.38	5.47	108	109	80.0-122			1.66	20
Dibromomethane	5.00	4.65	4.68	93.0	93.6	80.0-120			0.643	20
1,2-Dichlorobenzene	5.00	5.10	4.87	102	97.4	79.0-121			4.61	20
1,3-Dichlorobenzene	5.00	5.19	5.11	104	102	79.0-120			1.55	20
1,4-Dichlorobenzene	5.00	4.95	4.93	99.0	98.6	79.0-120			0.405	20
Dichlorodifluoromethane	5.00	3.47	3.64	69.4	72.8	51.0-149			4.78	20
1,1-Dichloroethane	5.00	4.71	4.90	94.2	98.0	70.0-126			3.95	20
1,2-Dichloroethane	5.00	4.17	4.22	83.4	84.4	70.0-128			1.19	20
1,1-Dichloroethene	5.00	5.13	4.99	103	99.8	71.0-124			2.77	20
cis-1,2-Dichloroethene	5.00	5.11	5.17	102	103	73.0-120			1.17	20
trans-1,2-Dichloroethene	5.00	4.98	5.03	99.6	101	73.0-120			0.999	20
1,2-Dichloropropane	5.00	5.00	4.99	100	99.8	77.0-125			0.200	20
1,1-Dichloropropene	5.00	4.78	4.98	95.6	99.6	74.0-126			4.10	20
1,3-Dichloropropane	5.00	5.29	5.43	106	109	80.0-120			2.61	20
cis-1,3-Dichloropropene	5.00	4.98	5.09	99.6	102	80.0-123			2.18	20
trans-1,3-Dichloropropene	5.00	5.26	5.34	105	107	78.0-124			1.51	20
trans-1,4-Dichloro-2-butene	5.00	4.20	4.29	84.0	85.8	33.0-144			2.12	20
2,2-Dichloropropane	5.00	4.97	5.14	99.4	103	58.0-130			3.36	20
Di-isopropyl ether	5.00	4.92	5.07	98.4	101	58.0-138			3.00	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3798937-1 06/02/22 11:35 • (LCSD) R3798937-2 06/02/22 11:54

Analyte	Spike Amount ug/l	LCS Result ug/l	LCSD Result ug/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	5.00	5.35	5.47	107	109	79.0-123			2.22	20
Hexachloro-1,3-butadiene	5.00	4.91	4.97	98.2	99.4	54.0-138			1.21	20
2-Hexanone	25.0	28.8	29.9	115	120	67.0-149			3.75	20
n-Hexane	5.00	4.44	4.92	88.8	98.4	57.0-133			10.3	20
Iodomethane	25.0	26.4	26.6	106	106	33.0-147			0.755	26
Isopropylbenzene	5.00	5.27	5.48	105	110	76.0-127			3.91	20
p-Isopropyltoluene	5.00	4.95	5.08	99.0	102	76.0-125			2.59	20
2-Butanone (MEK)	25.0	25.6	25.0	102	100	44.0-160			2.37	20
Methylene Chloride	5.00	4.63	5.11	92.6	102	67.0-120			9.86	20
4-Methyl-2-pentanone (MIBK)	25.0	26.8	26.7	107	107	68.0-142			0.374	20
Methyl tert-butyl ether	5.00	4.64	4.81	92.8	96.2	68.0-125			3.60	20
Naphthalene	5.00	4.02	3.94	80.4	78.8	54.0-135			2.01	20
n-Propylbenzene	5.00	5.89	6.01	118	120	77.0-124			2.02	20
Styrene	5.00	5.50	5.45	110	109	73.0-130			0.913	20
1,1,1,2-Tetrachloroethane	5.00	5.42	5.63	108	113	75.0-125			3.80	20
1,1,2,2-Tetrachloroethane	5.00	5.89	5.94	118	119	65.0-130			0.845	20
1,1,2-Trichlorotrifluoroethane	5.00	4.71	4.90	94.2	98.0	69.0-132			3.95	20
Tetrachloroethene	5.00	5.86	6.30	117	126	72.0-132			7.24	20
Toluene	5.00	5.27	5.49	105	110	79.0-120			4.09	20
1,2,3-Trichlorobenzene	5.00	4.89	4.83	97.8	96.6	50.0-138			1.23	20
1,2,4-Trichlorobenzene	5.00	4.72	4.81	94.4	96.2	57.0-137			1.89	20
1,1,1-Trichloroethane	5.00	4.89	5.14	97.8	103	73.0-124			4.99	20
1,1,2-Trichloroethane	5.00	5.44	5.88	109	118	80.0-120			7.77	20
Trichloroethene	5.00	5.31	5.35	106	107	78.0-124			0.750	20
Trichlorofluoromethane	5.00	3.31	3.48	66.2	69.6	59.0-147			5.01	20
1,2,3-Trichloropropane	5.00	5.50	5.62	110	112	73.0-130			2.16	20
1,2,4-Trimethylbenzene	5.00	5.11	5.01	102	100	76.0-121			1.98	20
1,2,3-Trimethylbenzene	5.00	4.97	5.12	99.4	102	77.0-120			2.97	20
1,3,5-Trimethylbenzene	5.00	5.61	5.75	112	115	76.0-122			2.46	20
Vinyl acetate	25.0	25.5	24.9	102	99.6	11.0-160			2.38	20
Vinyl chloride	5.00	4.05	4.40	81.0	88.0	67.0-131			8.28	20
Xylenes, Total	15.0	15.8	16.4	105	109	79.0-123			3.73	20
(S) Toluene-d8				114	117	80.0-120				
(S) 4-Bromofluorobenzene				99.5	102	77.0-126				
(S) 1,2-Dichloroethane-d4				87.5	86.8	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3797417-5 05/28/22 18:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	100			60.0-120
(S) n-Triacontane d62	101			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3797417-6 05/28/22 18:45 • (LCSD) R3797417-7 05/28/22 18:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	210	224	105	112	75.0-125			6.45	20
(S) o-Terphenyl				96.6	105	60.0-120				
(S) n-Triacontane d62				98.2	103	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3797417-8 05/28/22 19:10 • (LCSD) R3797417-9 05/28/22 19:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	215	196	108	98.0	60.0-120			9.25	20
(S) o-Terphenyl				105	97.8	60.0-120				
(S) n-Triacontane d62				102	101	60.0-120				

L1496456-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496456-03 05/28/22 14:19 • (MS) R3797417-1 05/28/22 14:31 • (MSD) R3797417-2 05/28/22 14:44

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	240	U	260	285	108	118	1	75.0-125			9.27	20
(S) o-Terphenyl					92.5	101		50.0-150				
(S) n-Triacontane d62					95.1	103		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1496456-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496456-03 05/28/22 14:19 • (MS) R3797417-3 05/28/22 14:57 • (MSD) R3797417-4 05/28/22 15:09

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	240	118	335	311	90.6	80.6	1	60.0-120			7.43	20
(S) o-Terphenyl					101	97.4		50.0-150				
(S) n-Triacontane d62					101	97.2		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3797447-1 05/30/22 10:32

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	85.4			60.0-120
(S) n-Triacontane d62	87.4			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3797447-2 05/30/22 10:45 • (LCSD) R3797447-3 05/30/22 10:58

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	181	193	90.5	96.5	75.0-125			6.42	20
(S) o-Terphenyl				89.1	93.6	60.0-120				
(S) n-Triacontane d62				91.6	94.6	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3797447-4 05/30/22 11:11 • (LCSD) R3797447-5 05/30/22 11:23

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	154	147	77.0	73.5	60.0-120			4.65	20
(S) o-Terphenyl				94.4	93.6	60.0-120				
(S) n-Triacontane d62				97.8	93.7	60.0-120				

L1496432-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496432-01 05/30/22 11:36 • (MS) R3797447-6 05/30/22 11:49 • (MSD) R3797447-7 05/30/22 12:02

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	213	U	257	249	121	117	1	75.0-125			3.38	20
(S) o-Terphenyl					96.3	97.0		50.0-150				
(S) n-Triacontane d62					95.8	96.1		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1496432-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496432-01 05/30/22 11:36 • (MS) R3797447-8 05/30/22 12:14 • (MSD) R3797447-9 05/30/22 12:27

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
AK103 RRO C25-C36	213	197	428	429	108	109	1	60.0-120			0.249	20
(S) o-Terphenyl					98.1	94.8		50.0-150				
(S) n-Triacontane d62					96.9	95.7		50.0-150				

L1496450-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496450-07 05/30/22 12:40 • (MS) R3797447-10 05/30/22 12:53 • (MSD) R3797447-11 05/30/22 13:05

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
AK102 DRO C10-C25	296	U	200	219	67.5	74.0	1	75.0-125	J6	J6	9.19	20
(S) o-Terphenyl					67.0	70.0		50.0-150				
(S) n-Triacontane d62					81.0	79.8		50.0-150				

L1496450-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496450-07 05/30/22 12:40 • (MS) R3797447-12 05/30/22 13:18 • (MSD) R3797447-13 05/30/22 13:31

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
AK103 RRO C25-C36	296	U	192	225	65.0	76.0	1	60.0-120			15.6	20
(S) o-Terphenyl					71.5	71.9		50.0-150				
(S) n-Triacontane d62					73.5	84.9		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3798209-2 06/01/22 00:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	73.1			14.0-149
(S) 2-Fluorobiphenyl	78.9			34.0-125
(S) p-Terphenyl-d14	95.6			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3798209-1 06/01/22 00:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0544	68.0	50.0-126	
Acenaphthene	0.0800	0.0575	71.9	50.0-120	
Acenaphthylene	0.0800	0.0581	72.6	50.0-120	
Benzo(a)anthracene	0.0800	0.0536	67.0	45.0-120	
Benzo(a)pyrene	0.0800	0.0465	58.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0561	70.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0545	68.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0544	68.0	49.0-125	
Chrysene	0.0800	0.0564	70.5	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0551	68.9	47.0-125	
Fluoranthene	0.0800	0.0561	70.1	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3798209-1 06/01/22 00:26

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0590	73.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0531	66.4	46.0-125	
Naphthalene	0.0800	0.0564	70.5	50.0-120	
Phenanthrene	0.0800	0.0584	73.0	47.0-120	
Pyrene	0.0800	0.0556	69.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0573	71.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0550	68.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0583	72.9	50.0-120	
(S) Nitrobenzene-d5			74.1	14.0-149	
(S) 2-Fluorobiphenyl			75.3	34.0-125	
(S) p-Terphenyl-d14			90.4	23.0-120	

L1496684-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496684-03 06/01/22 04:53 • (MS) R3798209-3 06/01/22 05:11 • (MSD) R3798209-4 06/01/22 05:29

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.156	U	0.0892	0.0978	57.2	63.4	1	10.0-145			9.24	30
Acenaphthene	0.156	U	0.0888	0.0970	57.0	62.9	1	14.0-127			8.86	27
Acenaphthylene	0.156	U	0.0940	0.105	60.3	67.8	1	21.0-124			10.7	25
Benzo(a)anthracene	0.156	U	0.0904	0.0992	58.0	64.3	1	10.0-139			9.32	30
Benzo(a)pyrene	0.156	U	0.0789	0.0878	50.6	56.9	1	10.0-141			10.6	31
Benzo(b)fluoranthene	0.156	U	0.0759	0.0833	48.7	54.0	1	10.0-140			9.33	36
Benzo(g,h,i)perylene	0.156	U	0.0717	0.0809	46.0	52.5	1	10.0-140			12.1	33
Benzo(k)fluoranthene	0.156	U	0.0785	0.0854	50.4	55.3	1	10.0-137			8.33	31
Chrysene	0.156	U	0.0856	0.0934	54.9	60.5	1	10.0-145			8.75	30
Dibenz(a,h)anthracene	0.156	U	0.0735	0.0835	47.2	54.2	1	10.0-132			12.8	31
Fluoranthene	0.156	U	0.0918	0.101	58.9	65.8	1	10.0-153			9.98	33
Fluorene	0.156	U	0.0944	0.105	60.6	68.0	1	11.0-130			10.5	29
Indeno(1,2,3-cd)pyrene	0.156	U	0.0769	0.0846	49.4	54.8	1	10.0-137			9.45	32
Naphthalene	0.156	U	0.0860	0.0962	55.2	62.4	1	10.0-135			11.2	27
Phenanthrene	0.156	U	0.0882	0.0958	56.6	62.1	1	10.0-144			8.30	31
Pyrene	0.156	U	0.0811	0.0896	52.1	58.1	1	10.0-148			9.88	35
1-Methylnaphthalene	0.156	U	0.0890	0.0992	57.1	64.3	1	10.0-142			10.9	28
2-Methylnaphthalene	0.156	U	0.0862	0.0964	55.3	62.5	1	10.0-137			11.2	28
2-Chloronaphthalene	0.156	U	0.0862	0.0970	55.3	62.9	1	29.0-120			11.8	24
(S) Nitrobenzene-d5					75.3	82.4		14.0-149				
(S) 2-Fluorobiphenyl					58.0	66.2		34.0-125				
(S) p-Terphenyl-d14					67.1	73.8		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3798292-2 06/01/22 13:59

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	89.2			14.0-149
(S) 2-Fluorobiphenyl	79.6			34.0-125
(S) p-Terphenyl-d14	99.4			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3798292-1 06/01/22 13:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0600	75.0	50.0-126	
Acenaphthene	0.0800	0.0571	71.4	50.0-120	
Acenaphthylene	0.0800	0.0623	77.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0627	78.4	45.0-120	
Benzo(a)pyrene	0.0800	0.0507	63.4	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0563	70.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0545	68.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0568	71.0	49.0-125	
Chrysene	0.0800	0.0598	74.8	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0583	72.9	47.0-125	
Fluoranthene	0.0800	0.0618	77.3	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3798292-1 06/01/22 13:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0597	74.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0612	76.5	46.0-125	
Naphthalene	0.0800	0.0593	74.1	50.0-120	
Phenanthrene	0.0800	0.0591	73.9	47.0-120	
Pyrene	0.0800	0.0580	72.5	43.0-123	
1-Methylnaphthalene	0.0800	0.0596	74.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0551	68.9	50.0-120	
2-Chloronaphthalene	0.0800	0.0529	66.1	50.0-120	
(S) Nitrobenzene-d5			95.4	14.0-149	
(S) 2-Fluorobiphenyl			82.7	34.0-125	
(S) p-Terphenyl-d14			99.4	23.0-120	

L1496684-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496684-07 06/01/22 19:17 • (MS) R3798292-3 06/01/22 19:37 • (MSD) R3798292-4 06/01/22 19:57

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0964	U	0.0673	0.0689	69.8	71.8	1	10.0-145			2.32	30
Acenaphthene	0.0964	U	0.0633	0.0676	65.7	70.4	1	14.0-127			6.51	27
Acenaphthylene	0.0964	U	0.0683	0.0733	70.8	76.4	1	21.0-124			7.05	25
Benzo(a)anthracene	0.0964	0.00351	0.0713	0.0726	70.4	72.0	1	10.0-139			1.69	30
Benzo(a)pyrene	0.0964	0.00447	0.0612	0.0629	58.9	61.0	1	10.0-141			2.75	31
Benzo(b)fluoranthene	0.0964	0.00668	0.0590	0.0592	54.3	54.7	1	10.0-140			0.206	36
Benzo(g,h,i)perylene	0.0964	0.00409	0.0582	0.0578	56.1	56.0	1	10.0-140			0.630	33
Benzo(k)fluoranthene	0.0964	U	0.0573	0.0573	59.5	59.8	1	10.0-137			0.000	31
Chrysene	0.0964	0.00469	0.0667	0.0665	64.3	64.4	1	10.0-145			0.366	30
Dibenz(a,h)anthracene	0.0964	U	0.0625	0.0633	64.8	66.0	1	10.0-132			1.36	31
Fluoranthene	0.0964	0.0127	0.0735	0.0694	63.1	59.1	1	10.0-153			5.79	33
Fluorene	0.0964	U	0.0687	0.0705	71.2	73.5	1	11.0-130			2.62	29
Indeno(1,2,3-cd)pyrene	0.0964	0.00416	0.0666	0.0644	64.7	62.8	1	10.0-137			3.35	32
Naphthalene	0.0964	U	0.0710	0.0741	73.6	77.3	1	10.0-135			4.36	27
Phenanthrene	0.0964	0.00509	0.0685	0.0665	65.8	64.0	1	10.0-144			3.07	31
Pyrene	0.0964	0.00917	0.0657	0.0646	58.7	57.8	1	10.0-148			1.68	35
1-Methylnaphthalene	0.0964	U	0.0673	0.0718	69.8	74.9	1	10.0-142			6.47	28
2-Methylnaphthalene	0.0964	U	0.0640	0.0678	66.4	70.7	1	10.0-137			5.72	28
2-Chloronaphthalene	0.0964	U	0.0617	0.0653	64.0	68.0	1	29.0-120			5.56	24
(S) Nitrobenzene-d5					98.7	93.2		14.0-149				
(S) 2-Fluorobiphenyl					67.3	71.6		34.0-125				
(S) p-Terphenyl-d14					70.3	78.7		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
C5	The reported concentration is an estimate. The continuing calibration standard associated with this data responded high. Data is likely to show a high bias concerning the result.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.



GLOSSARY OF TERMS

Qualifier	Description
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

ACCREDITATIONS & LOCATIONS

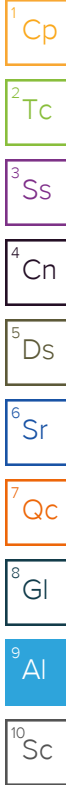
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



June 08, 2022

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

BGES, Inc. - Anchorage, AK

Sample Delivery Group: L1497358
Samples Received: 05/24/2022
Project Number:
Description: Homer Airport

Report To: BGES
1042 E 6th Ave.
Anchorage, AK 99501

Entire Report Reviewed By:



Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

SB 120-1 L1497358-01 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 16:55
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	12.9	05/19/22 16:55	05/31/22 22:07	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872867	1.12	05/19/22 16:55	06/02/22 17:09	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1871333	1	05/31/22 11:03	06/01/22 04:45	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1872697	1	06/02/22 03:25	06/02/22 18:42	AMG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

SB 42-1 L1497358-02 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 12:18
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1.02	05/20/22 12:18	05/31/22 18:10	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/20/22 12:18	06/01/22 15:23	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872666	1	06/02/22 14:12	06/03/22 01:16	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873409	1	06/02/22 17:31	06/03/22 02:38	AMG	Mt. Juliet, TN

5 Ds

6 Sr

7 Qc

8 Gl

SB 88-1 L1497358-03 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 11:05
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1	05/20/22 11:05	05/31/22 18:37	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/20/22 11:05	06/01/22 15:45	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/02/22 23:09	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873409	1	06/02/22 17:31	06/03/22 02:55	AMG	Mt. Juliet, TN

9 Al

10 Sc

SB 43-1 L1497358-04 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 12:38
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1.04	05/20/22 12:38	05/31/22 19:03	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/20/22 12:38	06/01/22 16:06	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/02/22 23:21	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873409	1	06/02/22 17:31	06/03/22 03:12	AMG	Mt. Juliet, TN

SB 187-1 L1497358-05 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 09:25
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1	05/20/22 09:25	05/31/22 19:31	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/20/22 09:25	06/01/22 16:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/02/22 23:34	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873409	1	06/02/22 17:31	06/03/22 03:30	AMG	Mt. Juliet, TN

SAMPLE SUMMARY

SB 189-1 L1497358-06 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 11:24
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1.07	05/20/22 11:24	05/31/22 20:21	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/20/22 11:24	06/01/22 16:48	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/03/22 00:12	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873409	1	06/02/22 17:31	06/03/22 03:47	AMG	Mt. Juliet, TN



SB 186-1 L1497358-07 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 10:41
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1.04	05/20/22 10:41	05/31/22 20:47	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/20/22 10:41	06/02/22 18:14	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/03/22 00:25	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873409	1	06/02/22 17:31	06/03/22 04:04	AMG	Mt. Juliet, TN



SB 181-3 L1497358-08 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 10:23
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1	05/20/22 10:23	05/31/22 21:14	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/20/22 10:23	06/02/22 18:36	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/02/22 23:47	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873409	1	06/02/22 17:31	06/03/22 04:22	AMG	Mt. Juliet, TN



SB 181-1 L1497358-09 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 10:12
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871349	1	05/30/22 06:39	05/30/22 06:47	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	1	05/20/22 10:12	05/31/22 21:40	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/20/22 10:12	06/02/22 18:58	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/02/22 23:59	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873415	1	06/03/22 06:37	06/03/22 12:54	AMG	Mt. Juliet, TN

SB 77-1 L1497358-10 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 13:42
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	10.9	05/20/22 13:42	05/31/22 22:33	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/20/22 13:42	06/02/22 19:19	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/03/22 00:38	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873415	1	06/03/22 06:37	06/03/22 16:22	AMG	Mt. Juliet, TN

SAMPLE SUMMARY

SB 78-1 L1497358-11 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 14:08
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	12.2	05/20/22 14:08	05/31/22 23:00	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/20/22 14:08	06/02/22 19:41	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/03/22 00:50	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873415	1	06/03/22 06:37	06/03/22 13:11	AMG	Mt. Juliet, TN

1 Cp

2 Tc

3 Ss

4 Cn

SB 39-1 L1497358-12 Solid

Collected by: Sam Bundy
 Collected date/time: 05/20/22 11:40
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	8	05/20/22 11:40	05/31/22 23:26	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/20/22 11:40	06/02/22 20:03	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1872668	1	06/02/22 14:10	06/03/22 01:03	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873415	1	06/03/22 06:37	06/03/22 17:15	AMG	Mt. Juliet, TN

5 Ds

6 Sr

7 Qc

8 Gl

SB 115-1 L1497358-13 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 12:28
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	11.3	05/21/22 12:28	05/31/22 23:52	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/21/22 12:28	06/02/22 20:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873375	1	06/03/22 02:45	06/04/22 19:21	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873424	1	06/03/22 06:34	06/03/22 14:25	AMG	Mt. Juliet, TN

9 Al

10 Sc

SB 110-1 L1497358-14 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 13:16
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	9.12	05/21/22 13:16	06/01/22 00:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/21/22 13:16	06/02/22 21:12	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873375	5	06/03/22 02:45	06/04/22 12:07	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873424	1	06/03/22 06:34	06/03/22 16:48	AMG	Mt. Juliet, TN

SB 117-1 L1497358-15 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 12:46
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	8	05/21/22 12:46	06/01/22 00:45	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/21/22 12:46	06/01/22 20:01	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/04/22 23:36	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873424	1	06/03/22 06:34	06/03/22 12:38	AMG	Mt. Juliet, TN

SAMPLE SUMMARY

SB 112-1 L1497358-16 Solid

Collected by: Sam Bundy
 Collected date/time: 05/21/22 13:04
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	8.32	05/21/22 13:04	06/01/22 01:12	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/21/22 13:04	06/01/22 20:23	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/04/22 22:20	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873424	1	06/03/22 06:34	06/03/22 12:55	AMG	Mt. Juliet, TN



SB 184-1 L1497358-17 Solid

Collected by: Sam Bundy
 Collected date/time: 05/22/22 14:26
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	23	05/22/22 14:26	06/01/22 01:38	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/22/22 14:26	06/02/22 21:33	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/05/22 02:21	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873424	1	06/03/22 06:34	06/03/22 15:18	AMG	Mt. Juliet, TN



SB 185-1 L1497358-18 Solid

Collected by: Sam Bundy
 Collected date/time: 05/22/22 13:59
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	8	05/22/22 13:59	06/01/22 02:05	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/22/22 13:59	06/02/22 21:54	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/05/22 02:09	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873424	1	06/03/22 06:34	06/03/22 16:12	AMG	Mt. Juliet, TN



SB 179-1 L1497358-19 Solid

Collected by: Sam Bundy
 Collected date/time: 05/22/22 15:04
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1871350	1	05/30/22 06:31	05/30/22 06:37	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1871774	21.8	05/22/22 15:04	06/01/22 02:31	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1873257	1	05/22/22 15:04	06/02/22 22:16	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/04/22 23:23	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873425	1	06/03/22 06:32	06/03/22 15:43	AMG	Mt. Juliet, TN

TRIP BLANK L1497358-20 Solid

Collected by: Sam Bundy
 Collected date/time: 05/19/22 00:00
 Received date/time: 05/24/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1871774	5	05/19/22 00:00	05/31/22 17:44	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1872540	1	05/19/22 00:00	06/01/22 12:48	ACG	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Volatile Organic Compounds (GC) by Method AK101

Surrogate recovery limits have been exceeded; values are outside upper control limits.

Batch	Analyte	Lab Sample ID
WG1871774	a,a,a-Trifluorotoluene(FID)	L1497358-04

Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG1872540	L1497358-02	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872540	L1497358-03	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872540	L1497358-04	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872540	L1497358-05	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872540	L1497358-06	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872540	L1497358-15	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872540	L1497358-16	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872540	L1497358-20	Chloromethane, Dichlorodifluoromethane, Hexachloro-1,3-butadiene, trans-1,2-Dichloroethene and Vinyl chloride
WG1872867	L1497358-01	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-07	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-08	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-09	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-10	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-11	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-12	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-13	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-14	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-17	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-18	Chloromethane and Dichlorodifluoromethane
WG1873257	L1497358-19	Chloromethane and Dichlorodifluoromethane



CASE NARRATIVE

Volatile Organic Compounds (GC/MS) by Method 8260D

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG1873257	4-Bromofluorobenzene	L1497358-11, 17, 19

Surrogate recovery limits have been exceeded; values are outside upper control limits.

Batch	Analyte	Lab Sample ID
WG1872867	Toluene-d8	L1497358-01
WG1873257	Toluene-d8	L1497358-12, 13, 17, 19

The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Batch	Lab Sample ID	Analytes
WG1872867	L1497358-01	1,2,4-Trimethylbenzene, Toluene and Xylenes, Total
WG1873257	L1497358-10	1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 2-Butanone (MEK), Acetone, Ethylbenzene, Naphthalene, n-Propylbenzene, Toluene and Xylenes, Total
WG1873257	L1497358-11	Acetone and Xylenes, Total
WG1873257	L1497358-12	1,2,4-Trimethylbenzene, 2-Butanone (MEK), Ethylbenzene and Xylenes, Total
WG1873257	L1497358-13	Acetone
WG1873257	L1497358-14	1,2,4-Trimethylbenzene and Acetone
WG1873257	L1497358-17	2-Butanone (MEK), Acetone and Toluene
WG1873257	L1497358-18	Acetone and Toluene
WG1873257	L1497358-19	2-Butanone (MEK), Acetone and Toluene

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1872867	(LCS) R3798924-4, L1497358-01	1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane and Dibromomethane
WG1873257	(LCS) R3798925-4, L1497358-07, 08, 09, 10, 11, 12, 13, 14, 17, 18, 19	1,1,2,2-Tetrachloroethane, 1,2,3-Trichloropropane and Dibromomethane

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG1871333	n-Triacontane d62	(MS) R3798130-1, (MSD) R3798130-2

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG1873377	(MS) R3799595-8	AK102 DRO C10-C25

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG1871333	(MS) R3798071-6, (MS) R3798130-1, (MSD) R3798071-7, (MSD) R3798130-2	AK102 DRO C10-C25 and AK103 RRO C25-C36

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

The sample concentration is too high to evaluate accurate spike recoveries.

Batch	Lab Sample ID	Analytes
WG1873425	(MS) R3799631-3, (MSD) R3799631-4	1-Methylnaphthalene, 2-Methylnaphthalene and Naphthalene

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1873415	(MS) R3799902-3, (MSD) R3799902-4	Benzo(a)anthracene, Fluoranthene, Phenanthrene and Pyrene
WG1873425	(MS) R3799631-3	Chrysene, Fluorene and Phenanthrene

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1873425	(MSD) R3799631-4	1-Methylnaphthalene, 2-Methylnaphthalene, Chrysene, Fluorene, Naphthalene and Phenanthrene



DETECTION SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 120-1	L1497358-01	Acetone	0.487		0.0271	0.0653	1.12	06/02/2022 17:09	WG1872867
SB 120-1	L1497358-01	2-Butanone (MEK)	0.0298		0.00611	0.0131	1.12	06/02/2022 17:09	WG1872867
SB 120-1	L1497358-01	Toluene	0.00161	J V3	0.00161	0.00653	1.12	06/02/2022 17:09	WG1872867
SB 120-1	L1497358-01	1,2,4-Trimethylbenzene	0.000797	J V3	0.000275	0.00131	1.12	06/02/2022 17:09	WG1872867
SB 120-1	L1497358-01	Xylenes, Total	0.000906	J V3	0.000653	0.00392	1.12	06/02/2022 17:09	WG1872867
SB 42-1	L1497358-02	Acetone	0.776		0.0274	0.0662	1	06/01/2022 15:23	WG1872540
SB 42-1	L1497358-02	Benzene	0.0212		0.000496	0.00132	1	06/01/2022 15:23	WG1872540
SB 42-1	L1497358-02	Bromomethane	0.00487	J	0.00155	0.00662	1	06/01/2022 15:23	WG1872540
SB 42-1	L1497358-02	2-Butanone (MEK)	0.0672		0.00619	0.0132	1	06/01/2022 15:23	WG1872540
SB 42-1	L1497358-02	Styrene	0.000324	J	0.000295	0.00132	1	06/01/2022 15:23	WG1872540
SB 42-1	L1497358-02	Toluene	0.00167	J	0.00163	0.00662	1	06/01/2022 15:23	WG1872540
SB 42-1	L1497358-02	1,2,4-Trimethylbenzene	0.000573	J	0.000279	0.00132	1	06/01/2022 15:23	WG1872540
SB 42-1	L1497358-02	Xylenes, Total	0.00107	J	0.000662	0.00397	1	06/01/2022 15:23	WG1872540
SB 88-1	L1497358-03	Acetone	0.445		0.0282	0.0682	1	06/01/2022 15:45	WG1872540
SB 88-1	L1497358-03	Benzene	0.0110		0.000511	0.00136	1	06/01/2022 15:45	WG1872540
SB 88-1	L1497358-03	Bromomethane	0.00338	J	0.00160	0.00682	1	06/01/2022 15:45	WG1872540
SB 88-1	L1497358-03	2-Butanone (MEK)	0.0327		0.00638	0.0136	1	06/01/2022 15:45	WG1872540
SB 88-1	L1497358-03	1,2,4-Trimethylbenzene	0.000322	J	0.000288	0.00136	1	06/01/2022 15:45	WG1872540
SB 88-1	L1497358-03	Xylenes, Total	0.000723	J	0.000682	0.00409	1	06/01/2022 15:45	WG1872540
SB 43-1	L1497358-04	Acetone	0.404		0.0244	0.0589	1	06/01/2022 16:06	WG1872540
SB 43-1	L1497358-04	Benzene	0.00825		0.000442	0.00118	1	06/01/2022 16:06	WG1872540
SB 43-1	L1497358-04	Bromomethane	0.00303	J	0.00138	0.00589	1	06/01/2022 16:06	WG1872540
SB 43-1	L1497358-04	2-Butanone (MEK)	0.0290		0.00552	0.0118	1	06/01/2022 16:06	WG1872540
SB 43-1	L1497358-04	1,2,4-Trimethylbenzene	0.000258	J	0.000249	0.00118	1	06/01/2022 16:06	WG1872540
SB 187-1	L1497358-05	Acetone	0.306		0.0248	0.0598	1	06/01/2022 16:27	WG1872540
SB 187-1	L1497358-05	Benzene	0.00557		0.000449	0.00120	1	06/01/2022 16:27	WG1872540
SB 187-1	L1497358-05	Bromomethane	0.00208	J	0.00140	0.00598	1	06/01/2022 16:27	WG1872540
SB 187-1	L1497358-05	2-Butanone (MEK)	0.0208		0.00560	0.0120	1	06/01/2022 16:27	WG1872540
SB 189-1	L1497358-06	Acetone	0.797		0.0347	0.0839	1	06/01/2022 16:48	WG1872540
SB 189-1	L1497358-06	Benzene	0.00829		0.000629	0.00168	1	06/01/2022 16:48	WG1872540
SB 189-1	L1497358-06	Bromomethane	0.00295	J	0.00196	0.00839	1	06/01/2022 16:48	WG1872540
SB 189-1	L1497358-06	2-Butanone (MEK)	0.0387		0.00785	0.0168	1	06/01/2022 16:48	WG1872540
SB 189-1	L1497358-06	1,2,4-Trimethylbenzene	0.000382	J	0.000354	0.00168	1	06/01/2022 16:48	WG1872540
SB 186-1	L1497358-07	Acetone	0.283		0.0263	0.0635	1	06/02/2022 18:14	WG1873257
SB 186-1	L1497358-07	2-Butanone (MEK)	0.00708	J	0.00595	0.0127	1	06/02/2022 18:14	WG1873257
SB 181-3	L1497358-08	Acetone	0.635		0.0262	0.0633	1	06/02/2022 18:36	WG1873257
SB 181-3	L1497358-08	2-Butanone (MEK)	0.0173		0.00592	0.0127	1	06/02/2022 18:36	WG1873257
SB 181-1	L1497358-09	Acetone	0.709		0.0252	0.0608	1	06/02/2022 18:58	WG1873257
SB 181-1	L1497358-09	2-Butanone (MEK)	0.0374		0.00569	0.0122	1	06/02/2022 18:58	WG1873257
SB 77-1	L1497358-10	Acetone	1.44	V3	0.0390	0.0943	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	Ethylbenzene	0.000803	J V3	0.000566	0.00189	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	2-Butanone (MEK)	0.200	V3	0.00882	0.0189	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	Naphthalene	0.0156	V3	0.00939	0.00943	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	n-Propylbenzene	0.00114	J V3	0.000388	0.00189	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	Toluene	0.00437	J V3	0.00232	0.00943	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	1,2,4-Trimethylbenzene	0.00622	V3	0.000398	0.00189	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	1,3,5-Trimethylbenzene	0.00134	J V3	0.000502	0.00189	1	06/02/2022 19:19	WG1873257
SB 77-1	L1497358-10	Xylenes, Total	0.00992	V3	0.000943	0.00566	1	06/02/2022 19:19	WG1873257
SB 78-1	L1497358-11	Acetone	0.542	V3	0.0351	0.0847	1	06/02/2022 19:41	WG1873257
SB 78-1	L1497358-11	Xylenes, Total	0.00105	J V3	0.000847	0.00508	1	06/02/2022 19:41	WG1873257
SB 39-1	L1497358-12	Acetone	0.652		0.0491	0.119	1	06/02/2022 20:03	WG1873257
SB 39-1	L1497358-12	Ethylbenzene	0.000743	J V3	0.000712	0.00237	1	06/02/2022 20:03	WG1873257
SB 39-1	L1497358-12	2-Butanone (MEK)	0.0790	V3	0.0111	0.0237	1	06/02/2022 20:03	WG1873257
SB 39-1	L1497358-12	1,2,4-Trimethylbenzene	0.00503	V3	0.000501	0.00237	1	06/02/2022 20:03	WG1873257
SB 39-1	L1497358-12	Xylenes, Total	0.00643	J V3	0.00119	0.00712	1	06/02/2022 20:03	WG1873257
SB 115-1	L1497358-13	Acetone	0.564	V3	0.0599	0.145	1	06/02/2022 20:24	WG1873257



DETECTION SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 110-1	L1497358-14	Acetone	0.138	V3	0.0257	0.0622	1	06/02/2022 21:12	WG1873257
SB 110-1	L1497358-14	1,2,4-Trimethylbenzene	0.000265	J V3	0.000262	0.00124	1	06/02/2022 21:12	WG1873257
SB 117-1	L1497358-15	Acetone	0.355		0.0261	0.0631	1	06/01/2022 20:01	WG1872540
SB 117-1	L1497358-15	Benzene	0.00246		0.000473	0.00126	1	06/01/2022 20:01	WG1872540
SB 117-1	L1497358-15	Bromomethane	0.00157	J	0.00148	0.00631	1	06/01/2022 20:01	WG1872540
SB 117-1	L1497358-15	2-Butanone (MEK)	0.0198		0.00591	0.0126	1	06/01/2022 20:01	WG1872540
SB 117-1	L1497358-15	4-Methyl-2-pentanone (MIBK)	0.00189	J	0.00120	0.0126	1	06/01/2022 20:01	WG1872540
SB 112-1	L1497358-16	Acetone	0.247		0.0238	0.0574	1	06/01/2022 20:23	WG1872540
SB 112-1	L1497358-16	Benzene	0.00193		0.000431	0.00115	1	06/01/2022 20:23	WG1872540
SB 112-1	L1497358-16	Bromomethane	0.00152	J	0.00134	0.00574	1	06/01/2022 20:23	WG1872540
SB 112-1	L1497358-16	2-Butanone (MEK)	0.0153		0.00537	0.0115	1	06/01/2022 20:23	WG1872540
SB 184-1	L1497358-17	Acetone	0.286	V3	0.0357	0.0862	1	06/02/2022 21:33	WG1873257
SB 184-1	L1497358-17	2-Butanone (MEK)	0.0445	V3	0.00807	0.0172	1	06/02/2022 21:33	WG1873257
SB 184-1	L1497358-17	Toluene	0.0355	V3	0.00212	0.00862	1	06/02/2022 21:33	WG1873257
SB 185-1	L1497358-18	Acetone	0.0807	V3	0.0238	0.0576	1	06/02/2022 21:54	WG1873257
SB 185-1	L1497358-18	Toluene	0.00173	J V3	0.00142	0.00576	1	06/02/2022 21:54	WG1873257
SB 179-1	L1497358-19	Acetone	0.427	V3	0.0313	0.0757	1	06/02/2022 22:16	WG1873257
SB 179-1	L1497358-19	2-Butanone (MEK)	0.0639	V3	0.00708	0.0151	1	06/02/2022 22:16	WG1873257
SB 179-1	L1497358-19	Toluene	0.00221	J V3	0.00186	0.00757	1	06/02/2022 22:16	WG1873257



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 120-1	L1497358-01	AK102 DRO C10-C25	124	J	101	233	1	06/01/2022 04:45	WG1871333
SB 120-1	L1497358-01	AK103 RRO C25-C36	110		77.7	233	1	06/01/2022 04:45	WG1871333
SB 42-1	L1497358-02	AK103 RRO C25-C36	205	J	88.2	265	1	06/03/2022 01:16	WG1872666
SB 189-1	L1497358-06	AK103 RRO C25-C36	518		112	335	1	06/03/2022 00:12	WG1872668
SB 186-1	L1497358-07	AK103 RRO C25-C36	245	J	84.6	254	1	06/03/2022 00:25	WG1872668
SB 77-1	L1497358-10	AK103 RRO C25-C36	1270		126	377	1	06/03/2022 00:38	WG1872668
SB 78-1	L1497358-11	AK103 RRO C25-C36	678		113	339	1	06/03/2022 00:50	WG1872668
SB 39-1	L1497358-12	AK102 DRO C10-C25	215	J	205	474	1	06/03/2022 01:03	WG1872668
SB 39-1	L1497358-12	AK103 RRO C25-C36	2140		158	474	1	06/03/2022 01:03	WG1872668
SB 115-1	L1497358-13	AK102 DRO C10-C25	274	J	250	578	1	06/04/2022 19:21	WG1873375
SB 115-1	L1497358-13	AK103 RRO C25-C36	2620		193	578	1	06/04/2022 19:21	WG1873375
SB 110-1	L1497358-14	AK103 RRO C25-C36	1500		414	1240	5	06/04/2022 12:07	WG1873375
SB 117-1	L1497358-15	AK103 RRO C25-C36	265		84.1	252	1	06/04/2022 23:36	WG1873377
SB 184-1	L1497358-17	AK103 RRO C25-C36	903		115	345	1	06/05/2022 02:21	WG1873377
SB 185-1	L1497358-18	AK103 RRO C25-C36	275		76.7	230	1	06/05/2022 02:09	WG1873377
SB 179-1	L1497358-19	AK103 RRO C25-C36	655		101	303	1	06/04/2022 23:23	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 120-1	L1497358-01	Fluorene	0.00700	J	0.00239	0.00700	1	06/02/2022 18:42	WG1872697
SB 77-1	L1497358-10	Benzo(a)pyrene	0.00662	J	0.00337	0.0113	1	06/03/2022 16:22	WG1873415
SB 77-1	L1497358-10	Fluorene	0.00439	J	0.00387	0.0113	1	06/03/2022 16:22	WG1873415
SB 78-1	L1497358-11	Benzo(a)pyrene	0.00313	J	0.00303	0.0102	1	06/03/2022 13:11	WG1873415
SB 39-1	L1497358-12	Benzo(b)fluoranthene	0.00520	J	0.00363	0.0142	1	06/03/2022 17:15	WG1873415
SB 39-1	L1497358-12	Fluoranthene	0.00728	J	0.00539	0.0142	1	06/03/2022 17:15	WG1873415
SB 39-1	L1497358-12	Fluorene	0.0240		0.00486	0.0142	1	06/03/2022 17:15	WG1873415
SB 39-1	L1497358-12	Pyrene	0.00562	J	0.00474	0.0142	1	06/03/2022 17:15	WG1873415
SB 115-1	L1497358-13	Fluorene	0.0347		0.00593	0.0173	1	06/03/2022 14:25	WG1873424

DETECTION SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 110-1	L1497358-14	Anthracene	0.00310	J	0.00286	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Benzo(a)anthracene	0.0103		0.00215	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Benzo(a)pyrene	0.0168		0.00223	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Benzo(b)fluoranthene	0.0200		0.00190	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Benzo(g,h,i)perylene	0.0287		0.00220	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Chrysene	0.00808		0.00288	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Dibenz(a,h)anthracene	0.0114		0.00214	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Fluoranthene	0.0158		0.00282	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Indeno(1,2,3-cd)pyrene	0.0112		0.00225	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Phenanthrene	0.0160		0.00287	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	Pyrene	0.0246		0.00249	0.00746	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	1-Methylnaphthalene	0.00618	J	0.00558	0.0249	1	06/03/2022 16:48	WG1873424
SB 110-1	L1497358-14	2-Methylnaphthalene	0.0148	J	0.00531	0.0249	1	06/03/2022 16:48	WG1873424
SB 184-1	L1497358-17	Anthracene	0.0386		0.00396	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Acenaphthene	0.00920	J	0.00360	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Benzo(a)anthracene	0.215		0.00298	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Benzo(a)pyrene	0.253		0.00309	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Benzo(b)fluoranthene	0.434		0.00264	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Benzo(g,h,i)perylene	0.245		0.00305	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Benzo(k)fluoranthene	0.148		0.00371	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Chrysene	0.272		0.00400	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Dibenz(a,h)anthracene	0.0414		0.00296	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Fluoranthene	0.612		0.00391	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Fluorene	0.0115		0.00353	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Indeno(1,2,3-cd)pyrene	0.271		0.00312	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Phenanthrene	0.246		0.00398	0.0103	1	06/03/2022 15:18	WG1873424
SB 184-1	L1497358-17	Pyrene	0.455		0.00345	0.0103	1	06/03/2022 15:18	WG1873424
SB 185-1	L1497358-18	Anthracene	0.0721		0.00265	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Acenaphthene	0.0117		0.00241	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Acenaphthylene	0.00366	J	0.00249	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Benzo(a)anthracene	0.420		0.00199	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Benzo(a)pyrene	0.438		0.00206	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Benzo(b)fluoranthene	0.698		0.00176	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Benzo(g,h,i)perylene	0.373		0.00204	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Benzo(k)fluoranthene	0.248		0.00248	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Chrysene	0.486		0.00267	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Dibenz(a,h)anthracene	0.0683		0.00198	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Fluoranthene	1.20		0.00261	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Fluorene	0.0176		0.00236	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Indeno(1,2,3-cd)pyrene	0.428		0.00208	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Phenanthrene	0.468		0.00266	0.00691	1	06/03/2022 16:12	WG1873424
SB 185-1	L1497358-18	Pyrene	0.842		0.00230	0.00691	1	06/03/2022 16:12	WG1873424
SB 179-1	L1497358-19	Benzo(a)anthracene	0.00764	J	0.00262	0.00908	1	06/03/2022 15:43	WG1873425
SB 179-1	L1497358-19	Benzo(b)fluoranthene	0.00968		0.00232	0.00908	1	06/03/2022 15:43	WG1873425
SB 179-1	L1497358-19	Chrysene	0.00757	J	0.00351	0.00908	1	06/03/2022 15:43	WG1873425
SB 179-1	L1497358-19	Fluoranthene	0.0201		0.00343	0.00908	1	06/03/2022 15:43	WG1873425
SB 179-1	L1497358-19	Fluorene	0.00522	J	0.00310	0.00908	1	06/03/2022 15:43	WG1873425
SB 179-1	L1497358-19	Indeno(1,2,3-cd)pyrene	0.00707	J	0.00274	0.00908	1	06/03/2022 15:43	WG1873425
SB 179-1	L1497358-19	Phenanthrene	0.0154		0.00350	0.00908	1	06/03/2022 15:43	WG1873425
SB 179-1	L1497358-19	Pyrene	0.0151		0.00303	0.00908	1	06/03/2022 15:43	WG1873425

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	85.7		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

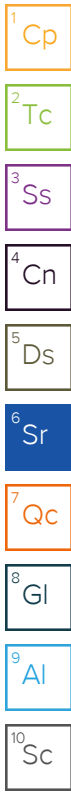
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		14.4	37.7	12.9	05/31/2022 22:07	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	78.2			50.0-150		05/31/2022 22:07	WG1871774

Sample Narrative:

L1497358-01 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.487		0.0271	0.0653	1.12	06/02/2022 17:09	WG1872867
Acrylonitrile	U		0.00264	0.0131	1.12	06/02/2022 17:09	WG1872867
Benzene	U		0.000490	0.00131	1.12	06/02/2022 17:09	WG1872867
Bromobenzene	U		0.000359	0.00131	1.12	06/02/2022 17:09	WG1872867
Bromodichloromethane	U		0.000948	0.00131	1.12	06/02/2022 17:09	WG1872867
Bromoform	U		0.000554	0.00131	1.12	06/02/2022 17:09	WG1872867
Bromomethane	U		0.00153	0.00653	1.12	06/02/2022 17:09	WG1872867
n-Butylbenzene	U		0.000337	0.00131	1.12	06/02/2022 17:09	WG1872867
sec-Butylbenzene	U		0.000263	0.00131	1.12	06/02/2022 17:09	WG1872867
tert-Butylbenzene	U		0.000270	0.00131	1.12	06/02/2022 17:09	WG1872867
Carbon tetrachloride	U		0.000324	0.00131	1.12	06/02/2022 17:09	WG1872867
Chlorobenzene	U		0.000251	0.00131	1.12	06/02/2022 17:09	WG1872867
Chlorodibromomethane	U		0.000293	0.00131	1.12	06/02/2022 17:09	WG1872867
Chloroethane	U		0.00131	0.00653	1.12	06/02/2022 17:09	WG1872867
Chloroform	U		0.00134	0.00653	1.12	06/02/2022 17:09	WG1872867
Chloromethane	U	<u>C3</u>	0.000850	0.00327	1.12	06/02/2022 17:09	WG1872867
2-Chlorotoluene	U		0.000294	0.00131	1.12	06/02/2022 17:09	WG1872867
4-Chlorotoluene	U		0.000903	0.00131	1.12	06/02/2022 17:09	WG1872867
1,2-Dibromo-3-Chloropropane	U		0.00249	0.00653	1.12	06/02/2022 17:09	WG1872867
1,2-Dibromoethane	U		0.000327	0.00131	1.12	06/02/2022 17:09	WG1872867
Dibromomethane	U	<u>J4</u>	0.000457	0.00131	1.12	06/02/2022 17:09	WG1872867
1,2-Dichlorobenzene	U		0.000555	0.00131	1.12	06/02/2022 17:09	WG1872867
1,3-Dichlorobenzene	U		0.000784	0.00131	1.12	06/02/2022 17:09	WG1872867
1,4-Dichlorobenzene	U		0.00109	0.00131	1.12	06/02/2022 17:09	WG1872867
Dichlorodifluoromethane	U	<u>C3</u>	0.000375	0.00653	1.12	06/02/2022 17:09	WG1872867
1,1-Dichloroethane	U		0.000350	0.00131	1.12	06/02/2022 17:09	WG1872867
1,2-Dichloroethane	U		0.000588	0.00131	1.12	06/02/2022 17:09	WG1872867
1,1-Dichloroethene	U		0.000464	0.00131	1.12	06/02/2022 17:09	WG1872867
cis-1,2-Dichloroethene	U		0.000621	0.00131	1.12	06/02/2022 17:09	WG1872867
trans-1,2-Dichloroethene	U		0.000653	0.00131	1.12	06/02/2022 17:09	WG1872867
1,2-Dichloropropane	U		0.000215	0.00131	1.12	06/02/2022 17:09	WG1872867
1,1-Dichloropropene	U		0.000490	0.00131	1.12	06/02/2022 17:09	WG1872867
1,3-Dichloropropane	U		0.000294	0.00131	1.12	06/02/2022 17:09	WG1872867
cis-1,3-Dichloropropene	U		0.000555	0.00131	1.12	06/02/2022 17:09	WG1872867
trans-1,3-Dichloropropene	U		0.000882	0.00131	1.12	06/02/2022 17:09	WG1872867
2,2-Dichloropropane	U		0.000490	0.00131	1.12	06/02/2022 17:09	WG1872867
Di-isopropyl ether	U		0.000289	0.00131	1.12	06/02/2022 17:09	WG1872867
Ethylbenzene	U		0.000392	0.00131	1.12	06/02/2022 17:09	WG1872867
Hexachloro-1,3-butadiene	U		0.000447	0.00131	1.12	06/02/2022 17:09	WG1872867
Isopropylbenzene	U		0.000555	0.00131	1.12	06/02/2022 17:09	WG1872867
p-Isopropyltoluene	U		0.000266	0.00131	1.12	06/02/2022 17:09	WG1872867



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.0298		0.00611	0.0131	1.12	06/02/2022 17:09	WG1872867
Methylene Chloride	U		0.00131	0.00653	1.12	06/02/2022 17:09	WG1872867
4-Methyl-2-pentanone (MIBK)	U		0.00124	0.0131	1.12	06/02/2022 17:09	WG1872867
Methyl tert-butyl ether	U		0.000457	0.00131	1.12	06/02/2022 17:09	WG1872867
Naphthalene	U		0.00651	0.00653	1.12	06/02/2022 17:09	WG1872867
n-Propylbenzene	U		0.000270	0.00131	1.12	06/02/2022 17:09	WG1872867
Styrene	U		0.000292	0.00131	1.12	06/02/2022 17:09	WG1872867
1,1,1,2-Tetrachloroethane	U		0.000387	0.00131	1.12	06/02/2022 17:09	WG1872867
1,1,2,2-Tetrachloroethane	U	J4	0.000302	0.00131	1.12	06/02/2022 17:09	WG1872867
1,1,2-Trichlorotrifluoroethane	U		0.000557	0.00131	1.12	06/02/2022 17:09	WG1872867
Tetrachloroethene	U		0.000425	0.00131	1.12	06/02/2022 17:09	WG1872867
Toluene	0.00161	JV3	0.00161	0.00653	1.12	06/02/2022 17:09	WG1872867
1,2,3-Trichlorobenzene	U		0.000400	0.00131	1.12	06/02/2022 17:09	WG1872867
1,2,4-Trichlorobenzene	U		0.000508	0.00131	1.12	06/02/2022 17:09	WG1872867
1,1,1-Trichloroethane	U		0.000483	0.00131	1.12	06/02/2022 17:09	WG1872867
1,1,2-Trichloroethane	U		0.000555	0.00131	1.12	06/02/2022 17:09	WG1872867
Trichloroethene	U		0.000261	0.00131	1.12	06/02/2022 17:09	WG1872867
Trichlorofluoromethane	U		0.000466	0.00653	1.12	06/02/2022 17:09	WG1872867
1,2,3-Trichloropropane	U	J4	0.000319	0.00327	1.12	06/02/2022 17:09	WG1872867
1,2,4-Trimethylbenzene	0.000797	JV3	0.000275	0.00131	1.12	06/02/2022 17:09	WG1872867
1,2,3-Trimethylbenzene	U		0.000375	0.00131	1.12	06/02/2022 17:09	WG1872867
Vinyl chloride	U		0.000295	0.00131	1.12	06/02/2022 17:09	WG1872867
1,3,5-Trimethylbenzene	U		0.000348	0.00131	1.12	06/02/2022 17:09	WG1872867
Xylenes, Total	0.000906	JV3	0.000653	0.00392	1.12	06/02/2022 17:09	WG1872867
(S) Toluene-d8	137	J1		75.0-131		06/02/2022 17:09	WG1872867
(S) 4-Bromofluorobenzene	69.1			67.0-138		06/02/2022 17:09	WG1872867
(S) 1,2-Dichloroethane-d4	101			70.0-130		06/02/2022 17:09	WG1872867



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	124	J	101	233	1	06/01/2022 04:45	WG1871333
AK103 RRO C25-C36	1110		77.7	233	1	06/01/2022 04:45	WG1871333
(S) o-Terphenyl	71.4			50.0-150		06/01/2022 04:45	WG1871333
(S) n-Triacontane d62	97.3			50.0-150		06/01/2022 04:45	WG1871333

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00268	0.00700	1	06/02/2022 18:42	WG1872697
Acenaphthene	U		0.00244	0.00700	1	06/02/2022 18:42	WG1872697
Acenaphthylene	U		0.00252	0.00700	1	06/02/2022 18:42	WG1872697
Benzo(a)anthracene	U		0.00202	0.00700	1	06/02/2022 18:42	WG1872697
Benzo(a)pyrene	U		0.00209	0.00700	1	06/02/2022 18:42	WG1872697
Benzo(b)fluoranthene	U		0.00179	0.00700	1	06/02/2022 18:42	WG1872697
Benzo(g,h,i)perylene	U		0.00207	0.00700	1	06/02/2022 18:42	WG1872697
Benzo(k)fluoranthene	U		0.00251	0.00700	1	06/02/2022 18:42	WG1872697
Chrysene	U		0.00271	0.00700	1	06/02/2022 18:42	WG1872697
Dibenz(a,h)anthracene	U		0.00201	0.00700	1	06/02/2022 18:42	WG1872697
Fluoranthene	U		0.00265	0.00700	1	06/02/2022 18:42	WG1872697
Fluorene	0.00700	J	0.00239	0.00700	1	06/02/2022 18:42	WG1872697
Indeno(1,2,3-cd)pyrene	U		0.00211	0.00700	1	06/02/2022 18:42	WG1872697
Naphthalene	U		0.00476	0.0233	1	06/02/2022 18:42	WG1872697
Phenanthrene	U		0.00270	0.00700	1	06/02/2022 18:42	WG1872697
Pyrene	U		0.00233	0.00700	1	06/02/2022 18:42	WG1872697

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00524	0.0233	1	06/02/2022 18:42	WG1872697
2-Methylnaphthalene	U		0.00498	0.0233	1	06/02/2022 18:42	WG1872697
2-Chloronaphthalene	U		0.00544	0.0233	1	06/02/2022 18:42	WG1872697
<i>(S)</i> Nitrobenzene-d5	68.9			14.0-149		06/02/2022 18:42	WG1872697
<i>(S)</i> 2-Fluorobiphenyl	70.2			34.0-125		06/02/2022 18:42	WG1872697
<i>(S)</i> p-Terphenyl-d14	78.9			23.0-120		06/02/2022 18:42	WG1872697

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

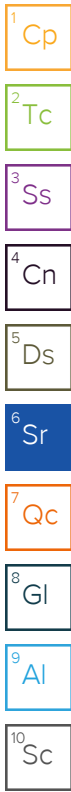
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	75.5		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.28	3.38	1.02	05/31/2022 18:10	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	91.5			50.0-150		05/31/2022 18:10	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.776		0.0274	0.0662	1	06/01/2022 15:23	WG1872540
Acrylonitrile	U		0.00267	0.0132	1	06/01/2022 15:23	WG1872540
Benzene	0.0212		0.000496	0.00132	1	06/01/2022 15:23	WG1872540
Bromobenzene	U		0.000364	0.00132	1	06/01/2022 15:23	WG1872540
Bromodichloromethane	U		0.000960	0.00132	1	06/01/2022 15:23	WG1872540
Bromoform	U		0.000561	0.00132	1	06/01/2022 15:23	WG1872540
Bromomethane	0.00487	J	0.00155	0.00662	1	06/01/2022 15:23	WG1872540
n-Butylbenzene	U		0.000341	0.00132	1	06/01/2022 15:23	WG1872540
sec-Butylbenzene	U		0.000266	0.00132	1	06/01/2022 15:23	WG1872540
tert-Butylbenzene	U		0.000273	0.00132	1	06/01/2022 15:23	WG1872540
Carbon tetrachloride	U		0.000328	0.00132	1	06/01/2022 15:23	WG1872540
Chlorobenzene	U		0.000254	0.00132	1	06/01/2022 15:23	WG1872540
Chlorodibromomethane	U		0.000296	0.00132	1	06/01/2022 15:23	WG1872540
Chloroethane	U		0.00132	0.00662	1	06/01/2022 15:23	WG1872540
Chloroform	U		0.00136	0.00662	1	06/01/2022 15:23	WG1872540
Chloromethane	U	C3	0.000860	0.00331	1	06/01/2022 15:23	WG1872540
2-Chlorotoluene	U		0.000298	0.00132	1	06/01/2022 15:23	WG1872540
4-Chlorotoluene	U		0.000915	0.00132	1	06/01/2022 15:23	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00251	0.00662	1	06/01/2022 15:23	WG1872540
1,2-Dibromoethane	U		0.000331	0.00132	1	06/01/2022 15:23	WG1872540
Dibromomethane	U		0.000463	0.00132	1	06/01/2022 15:23	WG1872540
1,2-Dichlorobenzene	U		0.000563	0.00132	1	06/01/2022 15:23	WG1872540
1,3-Dichlorobenzene	U		0.000794	0.00132	1	06/01/2022 15:23	WG1872540
1,4-Dichlorobenzene	U		0.00110	0.00132	1	06/01/2022 15:23	WG1872540
Dichlorodifluoromethane	U	C3	0.000380	0.00662	1	06/01/2022 15:23	WG1872540
1,1-Dichloroethane	U		0.000355	0.00132	1	06/01/2022 15:23	WG1872540
1,2-Dichloroethane	U		0.000596	0.00132	1	06/01/2022 15:23	WG1872540
1,1-Dichloroethene	U		0.000470	0.00132	1	06/01/2022 15:23	WG1872540
cis-1,2-Dichloroethene	U		0.000629	0.00132	1	06/01/2022 15:23	WG1872540
trans-1,2-Dichloroethene	U	C3	0.000662	0.00132	1	06/01/2022 15:23	WG1872540
1,2-Dichloropropane	U		0.000217	0.00132	1	06/01/2022 15:23	WG1872540
1,1-Dichloropropene	U		0.000496	0.00132	1	06/01/2022 15:23	WG1872540
1,3-Dichloropropane	U		0.000298	0.00132	1	06/01/2022 15:23	WG1872540
cis-1,3-Dichloropropene	U		0.000563	0.00132	1	06/01/2022 15:23	WG1872540
trans-1,3-Dichloropropene	U		0.000893	0.00132	1	06/01/2022 15:23	WG1872540
2,2-Dichloropropane	U		0.000496	0.00132	1	06/01/2022 15:23	WG1872540
Di-isopropyl ether	U		0.000293	0.00132	1	06/01/2022 15:23	WG1872540
Ethylbenzene	U		0.000397	0.00132	1	06/01/2022 15:23	WG1872540
Hexachloro-1,3-butadiene	U	C3	0.000453	0.00132	1	06/01/2022 15:23	WG1872540
Isopropylbenzene	U		0.000563	0.00132	1	06/01/2022 15:23	WG1872540
p-Isopropyltoluene	U		0.000270	0.00132	1	06/01/2022 15:23	WG1872540
2-Butanone (MEK)	0.0672		0.00619	0.0132	1	06/01/2022 15:23	WG1872540
Methylene Chloride	U		0.00132	0.00662	1	06/01/2022 15:23	WG1872540
4-Methyl-2-pentanone (MIBK)	U		0.00126	0.0132	1	06/01/2022 15:23	WG1872540



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00463	0.00132	1	06/01/2022 15:23	WG1872540
Naphthalene	U		0.00659	0.00662	1	06/01/2022 15:23	WG1872540
n-Propylbenzene	U		0.000273	0.00132	1	06/01/2022 15:23	WG1872540
Styrene	0.000324	J	0.000295	0.00132	1	06/01/2022 15:23	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000392	0.00132	1	06/01/2022 15:23	WG1872540
1,1,2,2-Tetrachloroethane	U		0.000306	0.00132	1	06/01/2022 15:23	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000564	0.00132	1	06/01/2022 15:23	WG1872540
Tetrachloroethene	U		0.000430	0.00132	1	06/01/2022 15:23	WG1872540
Toluene	0.00167	J	0.00163	0.00662	1	06/01/2022 15:23	WG1872540
1,2,3-Trichlorobenzene	U		0.000405	0.00132	1	06/01/2022 15:23	WG1872540
1,2,4-Trichlorobenzene	U		0.000514	0.00132	1	06/01/2022 15:23	WG1872540
1,1,1-Trichloroethane	U		0.000490	0.00132	1	06/01/2022 15:23	WG1872540
1,1,2-Trichloroethane	U		0.000563	0.00132	1	06/01/2022 15:23	WG1872540
Trichloroethene	U		0.000265	0.00132	1	06/01/2022 15:23	WG1872540
Trichlorofluoromethane	U		0.000471	0.00662	1	06/01/2022 15:23	WG1872540
1,2,3-Trichloropropane	U		0.000323	0.00331	1	06/01/2022 15:23	WG1872540
1,2,4-Trimethylbenzene	0.000573	J	0.000279	0.00132	1	06/01/2022 15:23	WG1872540
1,2,3-Trimethylbenzene	U		0.000380	0.00132	1	06/01/2022 15:23	WG1872540
Vinyl chloride	U	C3	0.000299	0.00132	1	06/01/2022 15:23	WG1872540
1,3,5-Trimethylbenzene	U		0.000352	0.00132	1	06/01/2022 15:23	WG1872540
Xylenes, Total	0.00107	J	0.000662	0.00397	1	06/01/2022 15:23	WG1872540
(S) Toluene-d8	104			75.0-131		06/01/2022 15:23	WG1872540
(S) 4-Bromofluorobenzene	93.1			67.0-138		06/01/2022 15:23	WG1872540
(S) 1,2-Dichloroethane-d4	71.3			70.0-130		06/01/2022 15:23	WG1872540



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		115	265	1	06/03/2022 01:16	WG1872666
AK103 RRO C25-C36	205	J	88.2	265	1	06/03/2022 01:16	WG1872666
(S) o-Terphenyl	57.6			50.0-150		06/03/2022 01:16	WG1872666
(S) n-Triacontane d62	55.8			50.0-150		06/03/2022 01:16	WG1872666

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00304	0.00794	1	06/03/2022 02:38	WG1873409
Acenaphthene	U		0.00277	0.00794	1	06/03/2022 02:38	WG1873409
Acenaphthylene	U		0.00286	0.00794	1	06/03/2022 02:38	WG1873409
Benzo(a)anthracene	U		0.00229	0.00794	1	06/03/2022 02:38	WG1873409
Benzo(a)pyrene	U		0.00237	0.00794	1	06/03/2022 02:38	WG1873409
Benzo(b)fluoranthene	U		0.00203	0.00794	1	06/03/2022 02:38	WG1873409
Benzo(g,h,i)perylene	U		0.00234	0.00794	1	06/03/2022 02:38	WG1873409
Benzo(k)fluoranthene	U		0.00285	0.00794	1	06/03/2022 02:38	WG1873409
Chrysene	U		0.00307	0.00794	1	06/03/2022 02:38	WG1873409
Dibenz(a,h)anthracene	U		0.00228	0.00794	1	06/03/2022 02:38	WG1873409
Fluoranthene	U		0.00300	0.00794	1	06/03/2022 02:38	WG1873409
Fluorene	U		0.00271	0.00794	1	06/03/2022 02:38	WG1873409
Indeno(1,2,3-cd)pyrene	U		0.00240	0.00794	1	06/03/2022 02:38	WG1873409
Naphthalene	U		0.00540	0.0265	1	06/03/2022 02:38	WG1873409
Phenanthrene	U		0.00306	0.00794	1	06/03/2022 02:38	WG1873409
Pyrene	U		0.00265	0.00794	1	06/03/2022 02:38	WG1873409
1-Methylnaphthalene	U		0.00594	0.0265	1	06/03/2022 02:38	WG1873409
2-Methylnaphthalene	U		0.00565	0.0265	1	06/03/2022 02:38	WG1873409
2-Chloronaphthalene	U		0.00617	0.0265	1	06/03/2022 02:38	WG1873409

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	62.9			14.0-149		06/03/2022 02:38	WG1873409
(S) 2-Fluorobiphenyl	64.7			34.0-125		06/03/2022 02:38	WG1873409
(S) p-Terphenyl-d14	73.4			23.0-120		06/03/2022 02:38	WG1873409

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	73.3		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.30	3.41	1	05/31/2022 18:37	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	89.3			50.0-150		05/31/2022 18:37	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.445		0.0282	0.0682	1	06/01/2022 15:45	WG1872540
Acrylonitrile	U		0.00275	0.0136	1	06/01/2022 15:45	WG1872540
Benzene	0.0110		0.000511	0.00136	1	06/01/2022 15:45	WG1872540
Bromobenzene	U		0.000375	0.00136	1	06/01/2022 15:45	WG1872540
Bromodichloromethane	U		0.000989	0.00136	1	06/01/2022 15:45	WG1872540
Bromoform	U		0.000578	0.00136	1	06/01/2022 15:45	WG1872540
Bromomethane	0.00338	J	0.00160	0.00682	1	06/01/2022 15:45	WG1872540
n-Butylbenzene	U		0.000352	0.00136	1	06/01/2022 15:45	WG1872540
sec-Butylbenzene	U		0.000274	0.00136	1	06/01/2022 15:45	WG1872540
tert-Butylbenzene	U		0.000281	0.00136	1	06/01/2022 15:45	WG1872540
Carbon tetrachloride	U		0.000338	0.00136	1	06/01/2022 15:45	WG1872540
Chlorobenzene	U		0.000262	0.00136	1	06/01/2022 15:45	WG1872540
Chlorodibromomethane	U		0.000305	0.00136	1	06/01/2022 15:45	WG1872540
Chloroethane	U		0.00136	0.00682	1	06/01/2022 15:45	WG1872540
Chloroform	U		0.00140	0.00682	1	06/01/2022 15:45	WG1872540
Chloromethane	U	C3	0.000886	0.00341	1	06/01/2022 15:45	WG1872540
2-Chlorotoluene	U		0.000307	0.00136	1	06/01/2022 15:45	WG1872540
4-Chlorotoluene	U		0.000942	0.00136	1	06/01/2022 15:45	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00259	0.00682	1	06/01/2022 15:45	WG1872540
1,2-Dibromoethane	U		0.000341	0.00136	1	06/01/2022 15:45	WG1872540
Dibromomethane	U		0.000477	0.00136	1	06/01/2022 15:45	WG1872540
1,2-Dichlorobenzene	U		0.000580	0.00136	1	06/01/2022 15:45	WG1872540
1,3-Dichlorobenzene	U		0.000818	0.00136	1	06/01/2022 15:45	WG1872540
1,4-Dichlorobenzene	U		0.00113	0.00136	1	06/01/2022 15:45	WG1872540
Dichlorodifluoromethane	U	C3	0.000391	0.00682	1	06/01/2022 15:45	WG1872540
1,1-Dichloroethane	U		0.000365	0.00136	1	06/01/2022 15:45	WG1872540
1,2-Dichloroethane	U		0.000614	0.00136	1	06/01/2022 15:45	WG1872540
1,1-Dichloroethene	U		0.000484	0.00136	1	06/01/2022 15:45	WG1872540
cis-1,2-Dichloroethene	U		0.000648	0.00136	1	06/01/2022 15:45	WG1872540
trans-1,2-Dichloroethene	U	C3	0.000682	0.00136	1	06/01/2022 15:45	WG1872540
1,2-Dichloropropane	U		0.000224	0.00136	1	06/01/2022 15:45	WG1872540
1,1-Dichloropropene	U		0.000511	0.00136	1	06/01/2022 15:45	WG1872540
1,3-Dichloropropane	U		0.000307	0.00136	1	06/01/2022 15:45	WG1872540
cis-1,3-Dichloropropene	U		0.000580	0.00136	1	06/01/2022 15:45	WG1872540
trans-1,3-Dichloropropene	U		0.000920	0.00136	1	06/01/2022 15:45	WG1872540
2,2-Dichloropropane	U		0.000511	0.00136	1	06/01/2022 15:45	WG1872540
Di-isopropyl ether	U		0.000301	0.00136	1	06/01/2022 15:45	WG1872540
Ethylbenzene	U		0.000409	0.00136	1	06/01/2022 15:45	WG1872540
Hexachloro-1,3-butadiene	U	C3	0.000466	0.00136	1	06/01/2022 15:45	WG1872540
Isopropylbenzene	U		0.000580	0.00136	1	06/01/2022 15:45	WG1872540
p-Isopropyltoluene	U		0.000278	0.00136	1	06/01/2022 15:45	WG1872540
2-Butanone (MEK)	0.0327		0.00638	0.0136	1	06/01/2022 15:45	WG1872540
Methylene Chloride	U		0.00136	0.00682	1	06/01/2022 15:45	WG1872540
4-Methyl-2-pentanone (MIBK)	U		0.00130	0.0136	1	06/01/2022 15:45	WG1872540

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000477	0.00136	1	06/01/2022 15:45	WG1872540
Naphthalene	U		0.00679	0.00682	1	06/01/2022 15:45	WG1872540
n-Propylbenzene	U		0.000281	0.00136	1	06/01/2022 15:45	WG1872540
Styrene	U		0.000304	0.00136	1	06/01/2022 15:45	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000404	0.00136	1	06/01/2022 15:45	WG1872540
1,1,2,2-Tetrachloroethane	U		0.000315	0.00136	1	06/01/2022 15:45	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000581	0.00136	1	06/01/2022 15:45	WG1872540
Tetrachloroethene	U		0.000443	0.00136	1	06/01/2022 15:45	WG1872540
Toluene	U		0.00168	0.00682	1	06/01/2022 15:45	WG1872540
1,2,3-Trichlorobenzene	U		0.000417	0.00136	1	06/01/2022 15:45	WG1872540
1,2,4-Trichlorobenzene	U		0.000529	0.00136	1	06/01/2022 15:45	WG1872540
1,1,1-Trichloroethane	U		0.000505	0.00136	1	06/01/2022 15:45	WG1872540
1,1,2-Trichloroethane	U		0.000580	0.00136	1	06/01/2022 15:45	WG1872540
Trichloroethene	U		0.000273	0.00136	1	06/01/2022 15:45	WG1872540
Trichlorofluoromethane	U		0.000485	0.00682	1	06/01/2022 15:45	WG1872540
1,2,3-Trichloropropane	U		0.000333	0.00341	1	06/01/2022 15:45	WG1872540
1,2,4-Trimethylbenzene	0.000322	J	0.000288	0.00136	1	06/01/2022 15:45	WG1872540
1,2,3-Trimethylbenzene	U		0.000391	0.00136	1	06/01/2022 15:45	WG1872540
Vinyl chloride	U	C3	0.000308	0.00136	1	06/01/2022 15:45	WG1872540
1,3,5-Trimethylbenzene	U		0.000363	0.00136	1	06/01/2022 15:45	WG1872540
Xylenes, Total	0.000723	J	0.000682	0.00409	1	06/01/2022 15:45	WG1872540
(S) Toluene-d8	97.6			75.0-131		06/01/2022 15:45	WG1872540
(S) 4-Bromofluorobenzene	94.5			67.0-138		06/01/2022 15:45	WG1872540
(S) 1,2-Dichloroethane-d4	75.4			70.0-130		06/01/2022 15:45	WG1872540



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		118	273	1	06/02/2022 23:09	WG1872668
AK103 RRO C25-C36	U		90.8	273	1	06/02/2022 23:09	WG1872668
(S) o-Terphenyl	77.9			50.0-150		06/02/2022 23:09	WG1872668
(S) n-Triacontane d62	73.9			50.0-150		06/02/2022 23:09	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00314	0.00818	1	06/03/2022 02:55	WG1873409
Acenaphthene	U		0.00285	0.00818	1	06/03/2022 02:55	WG1873409
Acenaphthylene	U		0.00295	0.00818	1	06/03/2022 02:55	WG1873409
Benzo(a)anthracene	U		0.00236	0.00818	1	06/03/2022 02:55	WG1873409
Benzo(a)pyrene	U		0.00244	0.00818	1	06/03/2022 02:55	WG1873409
Benzo(b)fluoranthene	U		0.00209	0.00818	1	06/03/2022 02:55	WG1873409
Benzo(g,h,i)perylene	U		0.00241	0.00818	1	06/03/2022 02:55	WG1873409
Benzo(k)fluoranthene	U		0.00293	0.00818	1	06/03/2022 02:55	WG1873409
Chrysene	U		0.00316	0.00818	1	06/03/2022 02:55	WG1873409
Dibenz(a,h)anthracene	U		0.00235	0.00818	1	06/03/2022 02:55	WG1873409
Fluoranthene	U		0.00310	0.00818	1	06/03/2022 02:55	WG1873409
Fluorene	U		0.00280	0.00818	1	06/03/2022 02:55	WG1873409
Indeno(1,2,3-cd)pyrene	U		0.00247	0.00818	1	06/03/2022 02:55	WG1873409
Naphthalene	U		0.00556	0.0273	1	06/03/2022 02:55	WG1873409
Phenanthrene	U		0.00315	0.00818	1	06/03/2022 02:55	WG1873409
Pyrene	U		0.00273	0.00818	1	06/03/2022 02:55	WG1873409
1-Methylnaphthalene	U		0.00612	0.0273	1	06/03/2022 02:55	WG1873409
2-Methylnaphthalene	U		0.00582	0.0273	1	06/03/2022 02:55	WG1873409
2-Chloronaphthalene	U		0.00635	0.0273	1	06/03/2022 02:55	WG1873409

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	68.8			14.0-149		06/03/2022 02:55	WG1873409
(S) 2-Fluorobiphenyl	69.8			34.0-125		06/03/2022 02:55	WG1873409
(S) p-Terphenyl-d14	80.9			23.0-120		06/03/2022 02:55	WG1873409

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

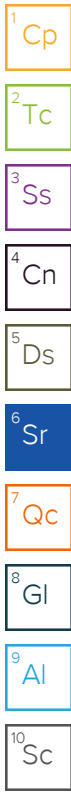
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	84.8		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.16	3.07	1.04	05/31/2022 19:03	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	159	<u>J1</u>		50.0-150		05/31/2022 19:03	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.404		0.0244	0.0589	1	06/01/2022 16:06	WG1872540
Acrylonitrile	U		0.00238	0.0118	1	06/01/2022 16:06	WG1872540
Benzene	0.00825		0.000442	0.00118	1	06/01/2022 16:06	WG1872540
Bromobenzene	U		0.000324	0.00118	1	06/01/2022 16:06	WG1872540
Bromodichloromethane	U		0.000855	0.00118	1	06/01/2022 16:06	WG1872540
Bromoform	U		0.000500	0.00118	1	06/01/2022 16:06	WG1872540
Bromomethane	0.00303	<u>J</u>	0.00138	0.00589	1	06/01/2022 16:06	WG1872540
n-Butylbenzene	U		0.000304	0.00118	1	06/01/2022 16:06	WG1872540
sec-Butylbenzene	U		0.000237	0.00118	1	06/01/2022 16:06	WG1872540
tert-Butylbenzene	U		0.000243	0.00118	1	06/01/2022 16:06	WG1872540
Carbon tetrachloride	U		0.000292	0.00118	1	06/01/2022 16:06	WG1872540
Chlorobenzene	U		0.000226	0.00118	1	06/01/2022 16:06	WG1872540
Chlorodibromomethane	U		0.000264	0.00118	1	06/01/2022 16:06	WG1872540
Chloroethane	U		0.00118	0.00589	1	06/01/2022 16:06	WG1872540
Chloroform	U		0.00121	0.00589	1	06/01/2022 16:06	WG1872540
Chloromethane	U	<u>C3</u>	0.000766	0.00295	1	06/01/2022 16:06	WG1872540
2-Chlorotoluene	U		0.000265	0.00118	1	06/01/2022 16:06	WG1872540
4-Chlorotoluene	U		0.000815	0.00118	1	06/01/2022 16:06	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00224	0.00589	1	06/01/2022 16:06	WG1872540
1,2-Dibromoethane	U		0.000295	0.00118	1	06/01/2022 16:06	WG1872540
Dibromomethane	U		0.000413	0.00118	1	06/01/2022 16:06	WG1872540
1,2-Dichlorobenzene	U		0.000501	0.00118	1	06/01/2022 16:06	WG1872540
1,3-Dichlorobenzene	U		0.000707	0.00118	1	06/01/2022 16:06	WG1872540
1,4-Dichlorobenzene	U		0.000978	0.00118	1	06/01/2022 16:06	WG1872540
Dichlorodifluoromethane	U	<u>C3</u>	0.000338	0.00589	1	06/01/2022 16:06	WG1872540
1,1-Dichloroethane	U		0.000316	0.00118	1	06/01/2022 16:06	WG1872540
1,2-Dichloroethane	U		0.000531	0.00118	1	06/01/2022 16:06	WG1872540
1,1-Dichloroethene	U		0.000419	0.00118	1	06/01/2022 16:06	WG1872540
cis-1,2-Dichloroethene	U		0.000560	0.00118	1	06/01/2022 16:06	WG1872540
trans-1,2-Dichloroethene	U	<u>C3</u>	0.000589	0.00118	1	06/01/2022 16:06	WG1872540
1,2-Dichloropropane	U		0.000193	0.00118	1	06/01/2022 16:06	WG1872540
1,1-Dichloropropene	U		0.000442	0.00118	1	06/01/2022 16:06	WG1872540
1,3-Dichloropropane	U		0.000265	0.00118	1	06/01/2022 16:06	WG1872540
cis-1,3-Dichloropropene	U		0.000501	0.00118	1	06/01/2022 16:06	WG1872540
trans-1,3-Dichloropropene	U		0.000796	0.00118	1	06/01/2022 16:06	WG1872540
2,2-Dichloropropane	U		0.000442	0.00118	1	06/01/2022 16:06	WG1872540
Di-isopropyl ether	U		0.000261	0.00118	1	06/01/2022 16:06	WG1872540
Ethylbenzene	U		0.000354	0.00118	1	06/01/2022 16:06	WG1872540
Hexachloro-1,3-butadiene	U	<u>C3</u>	0.000403	0.00118	1	06/01/2022 16:06	WG1872540
Isopropylbenzene	U		0.000501	0.00118	1	06/01/2022 16:06	WG1872540
p-Isopropyltoluene	U		0.000240	0.00118	1	06/01/2022 16:06	WG1872540
2-Butanone (MEK)	0.0290		0.00552	0.0118	1	06/01/2022 16:06	WG1872540
Methylene Chloride	U		0.00118	0.00589	1	06/01/2022 16:06	WG1872540
4-Methyl-2-pentanone (MIBK)	U		0.00112	0.0118	1	06/01/2022 16:06	WG1872540



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000413	0.00118	1	06/01/2022 16:06	WG1872540
Naphthalene	U		0.00587	0.00589	1	06/01/2022 16:06	WG1872540
n-Propylbenzene	U		0.000243	0.00118	1	06/01/2022 16:06	WG1872540
Styrene	U		0.000263	0.00118	1	06/01/2022 16:06	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000349	0.00118	1	06/01/2022 16:06	WG1872540
1,1,2,2-Tetrachloroethane	U		0.000272	0.00118	1	06/01/2022 16:06	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000502	0.00118	1	06/01/2022 16:06	WG1872540
Tetrachloroethene	U		0.000383	0.00118	1	06/01/2022 16:06	WG1872540
Toluene	U		0.00145	0.00589	1	06/01/2022 16:06	WG1872540
1,2,3-Trichlorobenzene	U		0.000361	0.00118	1	06/01/2022 16:06	WG1872540
1,2,4-Trichlorobenzene	U		0.000457	0.00118	1	06/01/2022 16:06	WG1872540
1,1,1-Trichloroethane	U		0.000436	0.00118	1	06/01/2022 16:06	WG1872540
1,1,2-Trichloroethane	U		0.000501	0.00118	1	06/01/2022 16:06	WG1872540
Trichloroethene	U		0.000236	0.00118	1	06/01/2022 16:06	WG1872540
Trichlorofluoromethane	U		0.000420	0.00589	1	06/01/2022 16:06	WG1872540
1,2,3-Trichloropropane	U		0.000288	0.00295	1	06/01/2022 16:06	WG1872540
1,2,4-Trimethylbenzene	0.000258	J	0.000249	0.00118	1	06/01/2022 16:06	WG1872540
1,2,3-Trimethylbenzene	U		0.000338	0.00118	1	06/01/2022 16:06	WG1872540
Vinyl chloride	U	C3	0.000266	0.00118	1	06/01/2022 16:06	WG1872540
1,3,5-Trimethylbenzene	U		0.000314	0.00118	1	06/01/2022 16:06	WG1872540
Xylenes, Total	U		0.000589	0.00354	1	06/01/2022 16:06	WG1872540
(S) Toluene-d8	98.8			75.0-131		06/01/2022 16:06	WG1872540
(S) 4-Bromofluorobenzene	97.9			67.0-138		06/01/2022 16:06	WG1872540
(S) 1,2-Dichloroethane-d4	80.1			70.0-130		06/01/2022 16:06	WG1872540

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		102	236	1	06/02/2022 23:21	WG1872668
AK103 RRO C25-C36	U		78.5	236	1	06/02/2022 23:21	WG1872668
(S) o-Terphenyl	89.3			50.0-150		06/02/2022 23:21	WG1872668
(S) n-Triacontane d62	87.8			50.0-150		06/02/2022 23:21	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00271	0.00707	1	06/03/2022 03:12	WG1873409
Acenaphthene	U		0.00246	0.00707	1	06/03/2022 03:12	WG1873409
Acenaphthylene	U		0.00255	0.00707	1	06/03/2022 03:12	WG1873409
Benzo(a)anthracene	U		0.00204	0.00707	1	06/03/2022 03:12	WG1873409
Benzo(a)pyrene	U		0.00211	0.00707	1	06/03/2022 03:12	WG1873409
Benzo(b)fluoranthene	U		0.00180	0.00707	1	06/03/2022 03:12	WG1873409
Benzo(g,h,i)perylene	U		0.00209	0.00707	1	06/03/2022 03:12	WG1873409
Benzo(k)fluoranthene	U		0.00253	0.00707	1	06/03/2022 03:12	WG1873409
Chrysene	U		0.00274	0.00707	1	06/03/2022 03:12	WG1873409
Dibenz(a,h)anthracene	U		0.00203	0.00707	1	06/03/2022 03:12	WG1873409
Fluoranthene	U		0.00268	0.00707	1	06/03/2022 03:12	WG1873409
Fluorene	U		0.00242	0.00707	1	06/03/2022 03:12	WG1873409
Indeno(1,2,3-cd)pyrene	U		0.00213	0.00707	1	06/03/2022 03:12	WG1873409
Naphthalene	U		0.00481	0.0236	1	06/03/2022 03:12	WG1873409
Phenanthrene	U		0.00272	0.00707	1	06/03/2022 03:12	WG1873409
Pyrene	U		0.00236	0.00707	1	06/03/2022 03:12	WG1873409
1-Methylnaphthalene	U		0.00529	0.0236	1	06/03/2022 03:12	WG1873409
2-Methylnaphthalene	U		0.00503	0.0236	1	06/03/2022 03:12	WG1873409
2-Chloronaphthalene	U		0.00549	0.0236	1	06/03/2022 03:12	WG1873409

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	71.6			14.0-149		06/03/2022 03:12	WG1873409
(S) 2-Fluorobiphenyl	73.6			34.0-125		06/03/2022 03:12	WG1873409
(S) p-Terphenyl-d14	87.0			23.0-120		06/03/2022 03:12	WG1873409

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

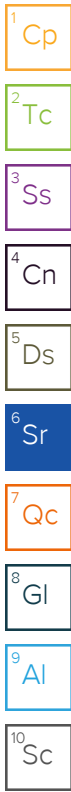
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	83.6		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.14	2.99	1	05/31/2022 19:31	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	86.4			50.0-150		05/31/2022 19:31	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.306		0.0248	0.0598	1	06/01/2022 16:27	WG1872540
Acrylonitrile	U		0.00242	0.0120	1	06/01/2022 16:27	WG1872540
Benzene	0.00557		0.000449	0.00120	1	06/01/2022 16:27	WG1872540
Bromobenzene	U		0.000329	0.00120	1	06/01/2022 16:27	WG1872540
Bromodichloromethane	U		0.000867	0.00120	1	06/01/2022 16:27	WG1872540
Bromoform	U		0.000507	0.00120	1	06/01/2022 16:27	WG1872540
Bromomethane	0.00208	J	0.00140	0.00598	1	06/01/2022 16:27	WG1872540
n-Butylbenzene	U		0.000309	0.00120	1	06/01/2022 16:27	WG1872540
sec-Butylbenzene	U		0.000240	0.00120	1	06/01/2022 16:27	WG1872540
tert-Butylbenzene	U		0.000246	0.00120	1	06/01/2022 16:27	WG1872540
Carbon tetrachloride	U		0.000297	0.00120	1	06/01/2022 16:27	WG1872540
Chlorobenzene	U		0.000230	0.00120	1	06/01/2022 16:27	WG1872540
Chlorodibromomethane	U		0.000268	0.00120	1	06/01/2022 16:27	WG1872540
Chloroethane	U		0.00120	0.00598	1	06/01/2022 16:27	WG1872540
Chloroform	U		0.00123	0.00598	1	06/01/2022 16:27	WG1872540
Chloromethane	U	C3	0.000778	0.00299	1	06/01/2022 16:27	WG1872540
2-Chlorotoluene	U		0.000269	0.00120	1	06/01/2022 16:27	WG1872540
4-Chlorotoluene	U		0.000827	0.00120	1	06/01/2022 16:27	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00227	0.00598	1	06/01/2022 16:27	WG1872540
1,2-Dibromoethane	U		0.000299	0.00120	1	06/01/2022 16:27	WG1872540
Dibromomethane	U		0.000419	0.00120	1	06/01/2022 16:27	WG1872540
1,2-Dichlorobenzene	U		0.000508	0.00120	1	06/01/2022 16:27	WG1872540
1,3-Dichlorobenzene	U		0.000718	0.00120	1	06/01/2022 16:27	WG1872540
1,4-Dichlorobenzene	U		0.000993	0.00120	1	06/01/2022 16:27	WG1872540
Dichlorodifluoromethane	U	C3	0.000343	0.00598	1	06/01/2022 16:27	WG1872540
1,1-Dichloroethane	U		0.000321	0.00120	1	06/01/2022 16:27	WG1872540
1,2-Dichloroethane	U		0.000538	0.00120	1	06/01/2022 16:27	WG1872540
1,1-Dichloroethene	U		0.000425	0.00120	1	06/01/2022 16:27	WG1872540
cis-1,2-Dichloroethene	U		0.000568	0.00120	1	06/01/2022 16:27	WG1872540
trans-1,2-Dichloroethene	U	C3	0.000598	0.00120	1	06/01/2022 16:27	WG1872540
1,2-Dichloropropane	U		0.000196	0.00120	1	06/01/2022 16:27	WG1872540
1,1-Dichloropropene	U		0.000449	0.00120	1	06/01/2022 16:27	WG1872540
1,3-Dichloropropane	U		0.000269	0.00120	1	06/01/2022 16:27	WG1872540
cis-1,3-Dichloropropene	U		0.000508	0.00120	1	06/01/2022 16:27	WG1872540
trans-1,3-Dichloropropene	U		0.000807	0.00120	1	06/01/2022 16:27	WG1872540
2,2-Dichloropropane	U		0.000449	0.00120	1	06/01/2022 16:27	WG1872540
Di-isopropyl ether	U		0.000264	0.00120	1	06/01/2022 16:27	WG1872540
Ethylbenzene	U		0.000359	0.00120	1	06/01/2022 16:27	WG1872540
Hexachloro-1,3-butadiene	U	C3	0.000409	0.00120	1	06/01/2022 16:27	WG1872540
Isopropylbenzene	U		0.000508	0.00120	1	06/01/2022 16:27	WG1872540
p-Isopropyltoluene	U		0.000244	0.00120	1	06/01/2022 16:27	WG1872540
2-Butanone (MEK)	0.0208		0.00560	0.0120	1	06/01/2022 16:27	WG1872540
Methylene Chloride	U		0.00120	0.00598	1	06/01/2022 16:27	WG1872540
4-Methyl-2-pentanone (MIBK)	U		0.00114	0.0120	1	06/01/2022 16:27	WG1872540



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000419	0.00120	1	06/01/2022 16:27	WG1872540
Naphthalene	U		0.00596	0.00598	1	06/01/2022 16:27	WG1872540
n-Propylbenzene	U		0.000246	0.00120	1	06/01/2022 16:27	WG1872540
Styrene	U		0.000267	0.00120	1	06/01/2022 16:27	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000354	0.00120	1	06/01/2022 16:27	WG1872540
1,1,2,2-Tetrachloroethane	U		0.000276	0.00120	1	06/01/2022 16:27	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000510	0.00120	1	06/01/2022 16:27	WG1872540
Tetrachloroethene	U		0.000389	0.00120	1	06/01/2022 16:27	WG1872540
Toluene	U		0.00147	0.00598	1	06/01/2022 16:27	WG1872540
1,2,3-Trichlorobenzene	U		0.000366	0.00120	1	06/01/2022 16:27	WG1872540
1,2,4-Trichlorobenzene	U		0.000464	0.00120	1	06/01/2022 16:27	WG1872540
1,1,1-Trichloroethane	U		0.000443	0.00120	1	06/01/2022 16:27	WG1872540
1,1,2-Trichloroethane	U		0.000508	0.00120	1	06/01/2022 16:27	WG1872540
Trichloroethene	U		0.000239	0.00120	1	06/01/2022 16:27	WG1872540
Trichlorofluoromethane	U		0.000426	0.00598	1	06/01/2022 16:27	WG1872540
1,2,3-Trichloropropane	U		0.000292	0.00299	1	06/01/2022 16:27	WG1872540
1,2,4-Trimethylbenzene	U		0.000252	0.00120	1	06/01/2022 16:27	WG1872540
1,2,3-Trimethylbenzene	U		0.000343	0.00120	1	06/01/2022 16:27	WG1872540
Vinyl chloride	U	C3	0.000270	0.00120	1	06/01/2022 16:27	WG1872540
1,3,5-Trimethylbenzene	U		0.000318	0.00120	1	06/01/2022 16:27	WG1872540
Xylenes, Total	U		0.000598	0.00359	1	06/01/2022 16:27	WG1872540
(S) Toluene-d8	95.7			75.0-131		06/01/2022 16:27	WG1872540
(S) 4-Bromofluorobenzene	101			67.0-138		06/01/2022 16:27	WG1872540
(S) 1,2-Dichloroethane-d4	76.2			70.0-130		06/01/2022 16:27	WG1872540

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		104	239	1	06/02/2022 23:34	WG1872668
AK103 RRO C25-C36	U		79.7	239	1	06/02/2022 23:34	WG1872668
(S) o-Terphenyl	81.2			50.0-150		06/02/2022 23:34	WG1872668
(S) n-Triacontane d62	78.6			50.0-150		06/02/2022 23:34	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00275	0.00718	1	06/03/2022 03:30	WG1873409
Acenaphthene	U		0.00250	0.00718	1	06/03/2022 03:30	WG1873409
Acenaphthylene	U		0.00258	0.00718	1	06/03/2022 03:30	WG1873409
Benzo(a)anthracene	U		0.00207	0.00718	1	06/03/2022 03:30	WG1873409
Benzo(a)pyrene	U		0.00214	0.00718	1	06/03/2022 03:30	WG1873409
Benzo(b)fluoranthene	U		0.00183	0.00718	1	06/03/2022 03:30	WG1873409
Benzo(g,h,i)perylene	U		0.00212	0.00718	1	06/03/2022 03:30	WG1873409
Benzo(k)fluoranthene	U		0.00257	0.00718	1	06/03/2022 03:30	WG1873409
Chrysene	U		0.00278	0.00718	1	06/03/2022 03:30	WG1873409
Dibenz(a,h)anthracene	U		0.00206	0.00718	1	06/03/2022 03:30	WG1873409
Fluoranthene	U		0.00272	0.00718	1	06/03/2022 03:30	WG1873409
Fluorene	U		0.00245	0.00718	1	06/03/2022 03:30	WG1873409
Indeno(1,2,3-cd)pyrene	U		0.00217	0.00718	1	06/03/2022 03:30	WG1873409
Naphthalene	U		0.00488	0.0239	1	06/03/2022 03:30	WG1873409
Phenanthrene	U		0.00276	0.00718	1	06/03/2022 03:30	WG1873409
Pyrene	U		0.00239	0.00718	1	06/03/2022 03:30	WG1873409
1-Methylnaphthalene	U		0.00537	0.0239	1	06/03/2022 03:30	WG1873409
2-Methylnaphthalene	U		0.00511	0.0239	1	06/03/2022 03:30	WG1873409
2-Chloronaphthalene	U		0.00557	0.0239	1	06/03/2022 03:30	WG1873409

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	67.4			14.0-149		06/03/2022 03:30	WG1873409
(S) 2-Fluorobiphenyl	69.2			34.0-125		06/03/2022 03:30	WG1873409
(S) p-Terphenyl-d14	79.2			23.0-120		06/03/2022 03:30	WG1873409

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

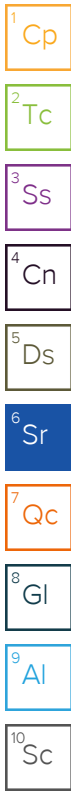
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	59.6		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.71	4.50	1.07	05/31/2022 20:21	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	87.7			50.0-150		05/31/2022 20:21	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.797		0.0347	0.0839	1	06/01/2022 16:48	WG1872540
Acrylonitrile	U		0.00339	0.0168	1	06/01/2022 16:48	WG1872540
Benzene	0.00829		0.000629	0.00168	1	06/01/2022 16:48	WG1872540
Bromobenzene	U		0.000461	0.00168	1	06/01/2022 16:48	WG1872540
Bromodichloromethane	U		0.00122	0.00168	1	06/01/2022 16:48	WG1872540
Bromoform	U		0.000711	0.00168	1	06/01/2022 16:48	WG1872540
Bromomethane	0.00295	J	0.00196	0.00839	1	06/01/2022 16:48	WG1872540
n-Butylbenzene	U		0.000433	0.00168	1	06/01/2022 16:48	WG1872540
sec-Butylbenzene	U		0.000337	0.00168	1	06/01/2022 16:48	WG1872540
tert-Butylbenzene	U		0.000346	0.00168	1	06/01/2022 16:48	WG1872540
Carbon tetrachloride	U		0.000416	0.00168	1	06/01/2022 16:48	WG1872540
Chlorobenzene	U		0.000322	0.00168	1	06/01/2022 16:48	WG1872540
Chlorodibromomethane	U		0.000376	0.00168	1	06/01/2022 16:48	WG1872540
Chloroethane	U		0.00168	0.00839	1	06/01/2022 16:48	WG1872540
Chloroform	U		0.00173	0.00839	1	06/01/2022 16:48	WG1872540
Chloromethane	U	C3	0.00109	0.00419	1	06/01/2022 16:48	WG1872540
2-Chlorotoluene	U		0.000377	0.00168	1	06/01/2022 16:48	WG1872540
4-Chlorotoluene	U		0.00116	0.00168	1	06/01/2022 16:48	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00319	0.00839	1	06/01/2022 16:48	WG1872540
1,2-Dibromoethane	U		0.000419	0.00168	1	06/01/2022 16:48	WG1872540
Dibromomethane	U		0.000587	0.00168	1	06/01/2022 16:48	WG1872540
1,2-Dichlorobenzene	U		0.000713	0.00168	1	06/01/2022 16:48	WG1872540
1,3-Dichlorobenzene	U		0.00101	0.00168	1	06/01/2022 16:48	WG1872540
1,4-Dichlorobenzene	U		0.00139	0.00168	1	06/01/2022 16:48	WG1872540
Dichlorodifluoromethane	U	C3	0.000481	0.00839	1	06/01/2022 16:48	WG1872540
1,1-Dichloroethane	U		0.000450	0.00168	1	06/01/2022 16:48	WG1872540
1,2-Dichloroethane	U		0.000755	0.00168	1	06/01/2022 16:48	WG1872540
1,1-Dichloroethene	U		0.000596	0.00168	1	06/01/2022 16:48	WG1872540
cis-1,2-Dichloroethene	U		0.000797	0.00168	1	06/01/2022 16:48	WG1872540
trans-1,2-Dichloroethene	U	C3	0.000839	0.00168	1	06/01/2022 16:48	WG1872540
1,2-Dichloropropane	U		0.000275	0.00168	1	06/01/2022 16:48	WG1872540
1,1-Dichloropropene	U		0.000629	0.00168	1	06/01/2022 16:48	WG1872540
1,3-Dichloropropane	U		0.000377	0.00168	1	06/01/2022 16:48	WG1872540
cis-1,3-Dichloropropene	U		0.000713	0.00168	1	06/01/2022 16:48	WG1872540
trans-1,3-Dichloropropene	U		0.00113	0.00168	1	06/01/2022 16:48	WG1872540
2,2-Dichloropropane	U		0.000629	0.00168	1	06/01/2022 16:48	WG1872540
Di-isopropyl ether	U		0.000371	0.00168	1	06/01/2022 16:48	WG1872540
Ethylbenzene	U		0.000503	0.00168	1	06/01/2022 16:48	WG1872540
Hexachloro-1,3-butadiene	U	C3	0.000574	0.00168	1	06/01/2022 16:48	WG1872540
Isopropylbenzene	U		0.000713	0.00168	1	06/01/2022 16:48	WG1872540
p-Isopropyltoluene	U		0.000342	0.00168	1	06/01/2022 16:48	WG1872540
2-Butanone (MEK)	0.0387		0.00785	0.0168	1	06/01/2022 16:48	WG1872540
Methylene Chloride	U		0.00168	0.00839	1	06/01/2022 16:48	WG1872540
4-Methyl-2-pentanone (MIBK)	U		0.00159	0.0168	1	06/01/2022 16:48	WG1872540



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000587	0.00168	1	06/01/2022 16:48	WG1872540
Naphthalene	U		0.00835	0.00839	1	06/01/2022 16:48	WG1872540
n-Propylbenzene	U		0.000346	0.00168	1	06/01/2022 16:48	WG1872540
Styrene	U		0.000374	0.00168	1	06/01/2022 16:48	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000497	0.00168	1	06/01/2022 16:48	WG1872540
1,1,2,2-Tetrachloroethane	U		0.000387	0.00168	1	06/01/2022 16:48	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000715	0.00168	1	06/01/2022 16:48	WG1872540
Tetrachloroethene	U		0.000545	0.00168	1	06/01/2022 16:48	WG1872540
Toluene	U		0.00206	0.00839	1	06/01/2022 16:48	WG1872540
1,2,3-Trichlorobenzene	U		0.000513	0.00168	1	06/01/2022 16:48	WG1872540
1,2,4-Trichlorobenzene	U		0.000651	0.00168	1	06/01/2022 16:48	WG1872540
1,1,1-Trichloroethane	U		0.000621	0.00168	1	06/01/2022 16:48	WG1872540
1,1,2-Trichloroethane	U		0.000713	0.00168	1	06/01/2022 16:48	WG1872540
Trichloroethene	U		0.000335	0.00168	1	06/01/2022 16:48	WG1872540
Trichlorofluoromethane	U		0.000597	0.00839	1	06/01/2022 16:48	WG1872540
1,2,3-Trichloropropane	U		0.000409	0.00419	1	06/01/2022 16:48	WG1872540
1,2,4-Trimethylbenzene	0.000382	J	0.000354	0.00168	1	06/01/2022 16:48	WG1872540
1,2,3-Trimethylbenzene	U		0.000481	0.00168	1	06/01/2022 16:48	WG1872540
Vinyl chloride	U	C3	0.000379	0.00168	1	06/01/2022 16:48	WG1872540
1,3,5-Trimethylbenzene	U		0.000446	0.00168	1	06/01/2022 16:48	WG1872540
Xylenes, Total	U		0.000839	0.00503	1	06/01/2022 16:48	WG1872540
(S) Toluene-d8	106			75.0-131		06/01/2022 16:48	WG1872540
(S) 4-Bromofluorobenzene	84.9			67.0-138		06/01/2022 16:48	WG1872540
(S) 1,2-Dichloroethane-d4	77.9			70.0-130		06/01/2022 16:48	WG1872540

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		145	335	1	06/03/2022 00:12	WG1872668
AK103 RRO C25-C36	518		112	335	1	06/03/2022 00:12	WG1872668
(S) o-Terphenyl	88.6			50.0-150		06/03/2022 00:12	WG1872668
(S) n-Triacontane d62	78.6			50.0-150		06/03/2022 00:12	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00386	0.0101	1	06/03/2022 03:47	WG1873409
Acenaphthene	U		0.00351	0.0101	1	06/03/2022 03:47	WG1873409
Acenaphthylene	U		0.00362	0.0101	1	06/03/2022 03:47	WG1873409
Benzo(a)anthracene	U		0.00290	0.0101	1	06/03/2022 03:47	WG1873409
Benzo(a)pyrene	U		0.00300	0.0101	1	06/03/2022 03:47	WG1873409
Benzo(b)fluoranthene	U		0.00257	0.0101	1	06/03/2022 03:47	WG1873409
Benzo(g,h,i)perylene	U		0.00297	0.0101	1	06/03/2022 03:47	WG1873409
Benzo(k)fluoranthene	U		0.00361	0.0101	1	06/03/2022 03:47	WG1873409
Chrysene	U		0.00389	0.0101	1	06/03/2022 03:47	WG1873409
Dibenz(a,h)anthracene	U		0.00289	0.0101	1	06/03/2022 03:47	WG1873409
Fluoranthene	U		0.00381	0.0101	1	06/03/2022 03:47	WG1873409
Fluorene	U		0.00344	0.0101	1	06/03/2022 03:47	WG1873409
Indeno(1,2,3-cd)pyrene	U		0.00304	0.0101	1	06/03/2022 03:47	WG1873409
Naphthalene	U		0.00684	0.0335	1	06/03/2022 03:47	WG1873409
Phenanthrene	U		0.00387	0.0101	1	06/03/2022 03:47	WG1873409
Pyrene	U		0.00335	0.0101	1	06/03/2022 03:47	WG1873409
1-Methylnaphthalene	U		0.00753	0.0335	1	06/03/2022 03:47	WG1873409
2-Methylnaphthalene	U		0.00716	0.0335	1	06/03/2022 03:47	WG1873409
2-Chloronaphthalene	U		0.00782	0.0335	1	06/03/2022 03:47	WG1873409

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	59.2			14.0-149		06/03/2022 03:47	WG1873409
(S) 2-Fluorobiphenyl	70.3			34.0-125		06/03/2022 03:47	WG1873409
(S) p-Terphenyl-d14	75.4			23.0-120		06/03/2022 03:47	WG1873409

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

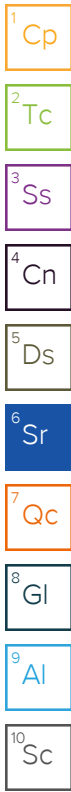
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	78.7		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.26	3.30	1.04	05/31/2022 20:47	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	87.5			50.0-150		05/31/2022 20:47	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.283		0.0263	0.0635	1	06/02/2022 18:14	WG1873257
Acrylonitrile	U		0.00257	0.0127	1	06/02/2022 18:14	WG1873257
Benzene	U		0.000477	0.00127	1	06/02/2022 18:14	WG1873257
Bromobenzene	U		0.000350	0.00127	1	06/02/2022 18:14	WG1873257
Bromodichloromethane	U		0.000921	0.00127	1	06/02/2022 18:14	WG1873257
Bromoform	U		0.000539	0.00127	1	06/02/2022 18:14	WG1873257
Bromomethane	U		0.00149	0.00635	1	06/02/2022 18:14	WG1873257
n-Butylbenzene	U		0.000328	0.00127	1	06/02/2022 18:14	WG1873257
sec-Butylbenzene	U		0.000255	0.00127	1	06/02/2022 18:14	WG1873257
tert-Butylbenzene	U		0.000262	0.00127	1	06/02/2022 18:14	WG1873257
Carbon tetrachloride	U		0.000315	0.00127	1	06/02/2022 18:14	WG1873257
Chlorobenzene	U		0.000244	0.00127	1	06/02/2022 18:14	WG1873257
Chlorodibromomethane	U		0.000285	0.00127	1	06/02/2022 18:14	WG1873257
Chloroethane	U		0.00127	0.00635	1	06/02/2022 18:14	WG1873257
Chloroform	U		0.00131	0.00635	1	06/02/2022 18:14	WG1873257
Chloromethane	U	<u>C3</u>	0.000826	0.00318	1	06/02/2022 18:14	WG1873257
2-Chlorotoluene	U		0.000286	0.00127	1	06/02/2022 18:14	WG1873257
4-Chlorotoluene	U		0.000878	0.00127	1	06/02/2022 18:14	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00241	0.00635	1	06/02/2022 18:14	WG1873257
1,2-Dibromoethane	U		0.000318	0.00127	1	06/02/2022 18:14	WG1873257
Dibromomethane	U	<u>J4</u>	0.000445	0.00127	1	06/02/2022 18:14	WG1873257
1,2-Dichlorobenzene	U		0.000540	0.00127	1	06/02/2022 18:14	WG1873257
1,3-Dichlorobenzene	U		0.000763	0.00127	1	06/02/2022 18:14	WG1873257
1,4-Dichlorobenzene	U		0.00105	0.00127	1	06/02/2022 18:14	WG1873257
Dichlorodifluoromethane	U	<u>C3</u>	0.000365	0.00635	1	06/02/2022 18:14	WG1873257
1,1-Dichloroethane	U		0.000341	0.00127	1	06/02/2022 18:14	WG1873257
1,2-Dichloroethane	U		0.000572	0.00127	1	06/02/2022 18:14	WG1873257
1,1-Dichloroethene	U		0.000451	0.00127	1	06/02/2022 18:14	WG1873257
cis-1,2-Dichloroethene	U		0.000604	0.00127	1	06/02/2022 18:14	WG1873257
trans-1,2-Dichloroethene	U		0.000635	0.00127	1	06/02/2022 18:14	WG1873257
1,2-Dichloropropane	U		0.000208	0.00127	1	06/02/2022 18:14	WG1873257
1,1-Dichloropropene	U		0.000477	0.00127	1	06/02/2022 18:14	WG1873257
1,3-Dichloropropane	U		0.000286	0.00127	1	06/02/2022 18:14	WG1873257
cis-1,3-Dichloropropene	U		0.000540	0.00127	1	06/02/2022 18:14	WG1873257
trans-1,3-Dichloropropene	U		0.000858	0.00127	1	06/02/2022 18:14	WG1873257
2,2-Dichloropropane	U		0.000477	0.00127	1	06/02/2022 18:14	WG1873257
Di-isopropyl ether	U		0.000281	0.00127	1	06/02/2022 18:14	WG1873257
Ethylbenzene	U		0.000381	0.00127	1	06/02/2022 18:14	WG1873257
Hexachloro-1,3-butadiene	U		0.000435	0.00127	1	06/02/2022 18:14	WG1873257
Isopropylbenzene	U		0.000540	0.00127	1	06/02/2022 18:14	WG1873257
p-Isopropyltoluene	U		0.000259	0.00127	1	06/02/2022 18:14	WG1873257
2-Butanone (MEK)	0.00708	<u>J</u>	0.00595	0.0127	1	06/02/2022 18:14	WG1873257
Methylene Chloride	U		0.00127	0.00635	1	06/02/2022 18:14	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00121	0.0127	1	06/02/2022 18:14	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000445	0.00127	1	06/02/2022 18:14	WG1873257
Naphthalene	U		0.00633	0.00635	1	06/02/2022 18:14	WG1873257
n-Propylbenzene	U		0.000262	0.00127	1	06/02/2022 18:14	WG1873257
Styrene	U		0.000283	0.00127	1	06/02/2022 18:14	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000376	0.00127	1	06/02/2022 18:14	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000294	0.00127	1	06/02/2022 18:14	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000541	0.00127	1	06/02/2022 18:14	WG1873257
Tetrachloroethene	U		0.000413	0.00127	1	06/02/2022 18:14	WG1873257
Toluene	U		0.00156	0.00635	1	06/02/2022 18:14	WG1873257
1,2,3-Trichlorobenzene	U		0.000389	0.00127	1	06/02/2022 18:14	WG1873257
1,2,4-Trichlorobenzene	U		0.000493	0.00127	1	06/02/2022 18:14	WG1873257
1,1,1-Trichloroethane	U		0.000470	0.00127	1	06/02/2022 18:14	WG1873257
1,1,2-Trichloroethane	U		0.000540	0.00127	1	06/02/2022 18:14	WG1873257
Trichloroethene	U		0.000254	0.00127	1	06/02/2022 18:14	WG1873257
Trichlorofluoromethane	U		0.000452	0.00635	1	06/02/2022 18:14	WG1873257
1,2,3-Trichloropropane	U	J4	0.000310	0.00318	1	06/02/2022 18:14	WG1873257
1,2,4-Trimethylbenzene	U		0.000268	0.00127	1	06/02/2022 18:14	WG1873257
1,2,3-Trimethylbenzene	U		0.000365	0.00127	1	06/02/2022 18:14	WG1873257
Vinyl chloride	U		0.000287	0.00127	1	06/02/2022 18:14	WG1873257
1,3,5-Trimethylbenzene	U		0.000338	0.00127	1	06/02/2022 18:14	WG1873257
Xylenes, Total	U		0.000635	0.00381	1	06/02/2022 18:14	WG1873257
(S) Toluene-d8	96.3			75.0-131		06/02/2022 18:14	WG1873257
(S) 4-Bromofluorobenzene	100			67.0-138		06/02/2022 18:14	WG1873257
(S) 1,2-Dichloroethane-d4	97.2			70.0-130		06/02/2022 18:14	WG1873257



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		110	254	1	06/03/2022 00:25	WG1872668
AK103 RRO C25-C36	245	J	84.6	254	1	06/03/2022 00:25	WG1872668
(S) o-Terphenyl	90.2			50.0-150		06/03/2022 00:25	WG1872668
(S) n-Triacontane d62	109			50.0-150		06/03/2022 00:25	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00292	0.00763	1	06/03/2022 04:04	WG1873409
Acenaphthene	U		0.00266	0.00763	1	06/03/2022 04:04	WG1873409
Acenaphthylene	U		0.00275	0.00763	1	06/03/2022 04:04	WG1873409
Benzo(a)anthracene	U		0.00220	0.00763	1	06/03/2022 04:04	WG1873409
Benzo(a)pyrene	U		0.00227	0.00763	1	06/03/2022 04:04	WG1873409
Benzo(b)fluoranthene	U		0.00194	0.00763	1	06/03/2022 04:04	WG1873409
Benzo(g,h,i)perylene	U		0.00225	0.00763	1	06/03/2022 04:04	WG1873409
Benzo(k)fluoranthene	U		0.00273	0.00763	1	06/03/2022 04:04	WG1873409
Chrysene	U		0.00295	0.00763	1	06/03/2022 04:04	WG1873409
Dibenz(a,h)anthracene	U		0.00219	0.00763	1	06/03/2022 04:04	WG1873409
Fluoranthene	U		0.00289	0.00763	1	06/03/2022 04:04	WG1873409
Fluorene	U		0.00261	0.00763	1	06/03/2022 04:04	WG1873409
Indeno(1,2,3-cd)pyrene	U		0.00230	0.00763	1	06/03/2022 04:04	WG1873409
Naphthalene	U		0.00519	0.0254	1	06/03/2022 04:04	WG1873409
Phenanthrene	U		0.00294	0.00763	1	06/03/2022 04:04	WG1873409
Pyrene	U		0.00254	0.00763	1	06/03/2022 04:04	WG1873409
1-Methylnaphthalene	U		0.00571	0.0254	1	06/03/2022 04:04	WG1873409
2-Methylnaphthalene	U		0.00543	0.0254	1	06/03/2022 04:04	WG1873409
2-Chloronaphthalene	U		0.00592	0.0254	1	06/03/2022 04:04	WG1873409

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	74.9			14.0-149		06/03/2022 04:04	WG1873409
(S) 2-Fluorobiphenyl	67.5			34.0-125		06/03/2022 04:04	WG1873409
(S) p-Terphenyl-d14	76.1			23.0-120		06/03/2022 04:04	WG1873409

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

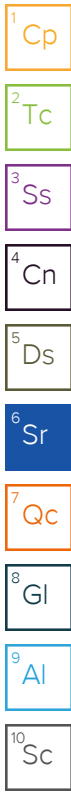
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	79.0		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.20	3.16	1	05/31/2022 21:14	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	90.0			50.0-150		05/31/2022 21:14	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.635		0.0262	0.0633	1	06/02/2022 18:36	WG1873257
Acrylonitrile	U		0.00256	0.0127	1	06/02/2022 18:36	WG1873257
Benzene	U		0.000474	0.00127	1	06/02/2022 18:36	WG1873257
Bromobenzene	U		0.000348	0.00127	1	06/02/2022 18:36	WG1873257
Bromodichloromethane	U		0.000917	0.00127	1	06/02/2022 18:36	WG1873257
Bromoform	U		0.000536	0.00127	1	06/02/2022 18:36	WG1873257
Bromomethane	U		0.00148	0.00633	1	06/02/2022 18:36	WG1873257
n-Butylbenzene	U		0.000326	0.00127	1	06/02/2022 18:36	WG1873257
sec-Butylbenzene	U		0.000254	0.00127	1	06/02/2022 18:36	WG1873257
tert-Butylbenzene	U		0.000261	0.00127	1	06/02/2022 18:36	WG1873257
Carbon tetrachloride	U		0.000314	0.00127	1	06/02/2022 18:36	WG1873257
Chlorobenzene	U		0.000243	0.00127	1	06/02/2022 18:36	WG1873257
Chlorodibromomethane	U		0.000283	0.00127	1	06/02/2022 18:36	WG1873257
Chloroethane	U		0.00127	0.00633	1	06/02/2022 18:36	WG1873257
Chloroform	U		0.00130	0.00633	1	06/02/2022 18:36	WG1873257
Chloromethane	U	<u>C3</u>	0.000822	0.00316	1	06/02/2022 18:36	WG1873257
2-Chlorotoluene	U		0.000285	0.00127	1	06/02/2022 18:36	WG1873257
4-Chlorotoluene	U		0.000874	0.00127	1	06/02/2022 18:36	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00240	0.00633	1	06/02/2022 18:36	WG1873257
1,2-Dibromoethane	U		0.000316	0.00127	1	06/02/2022 18:36	WG1873257
Dibromomethane	U	<u>J4</u>	0.000443	0.00127	1	06/02/2022 18:36	WG1873257
1,2-Dichlorobenzene	U		0.000538	0.00127	1	06/02/2022 18:36	WG1873257
1,3-Dichlorobenzene	U		0.000759	0.00127	1	06/02/2022 18:36	WG1873257
1,4-Dichlorobenzene	U		0.00105	0.00127	1	06/02/2022 18:36	WG1873257
Dichlorodifluoromethane	U	<u>C3</u>	0.000363	0.00633	1	06/02/2022 18:36	WG1873257
1,1-Dichloroethane	U		0.000339	0.00127	1	06/02/2022 18:36	WG1873257
1,2-Dichloroethane	U		0.000569	0.00127	1	06/02/2022 18:36	WG1873257
1,1-Dichloroethene	U		0.000449	0.00127	1	06/02/2022 18:36	WG1873257
cis-1,2-Dichloroethene	U		0.000601	0.00127	1	06/02/2022 18:36	WG1873257
trans-1,2-Dichloroethene	U		0.000633	0.00127	1	06/02/2022 18:36	WG1873257
1,2-Dichloropropane	U		0.000208	0.00127	1	06/02/2022 18:36	WG1873257
1,1-Dichloropropene	U		0.000474	0.00127	1	06/02/2022 18:36	WG1873257
1,3-Dichloropropane	U		0.000285	0.00127	1	06/02/2022 18:36	WG1873257
cis-1,3-Dichloropropene	U		0.000538	0.00127	1	06/02/2022 18:36	WG1873257
trans-1,3-Dichloropropene	U		0.000854	0.00127	1	06/02/2022 18:36	WG1873257
2,2-Dichloropropane	U		0.000474	0.00127	1	06/02/2022 18:36	WG1873257
Di-isopropyl ether	U		0.000280	0.00127	1	06/02/2022 18:36	WG1873257
Ethylbenzene	U		0.000380	0.00127	1	06/02/2022 18:36	WG1873257
Hexachloro-1,3-butadiene	U		0.000433	0.00127	1	06/02/2022 18:36	WG1873257
Isopropylbenzene	U		0.000538	0.00127	1	06/02/2022 18:36	WG1873257
p-Isopropyltoluene	U		0.000258	0.00127	1	06/02/2022 18:36	WG1873257
2-Butanone (MEK)	0.0173		0.00592	0.0127	1	06/02/2022 18:36	WG1873257
Methylene Chloride	U		0.00127	0.00633	1	06/02/2022 18:36	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00120	0.0127	1	06/02/2022 18:36	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000443	0.00127	1	06/02/2022 18:36	WG1873257
Naphthalene	U		0.00630	0.00633	1	06/02/2022 18:36	WG1873257
n-Propylbenzene	U		0.000261	0.00127	1	06/02/2022 18:36	WG1873257
Styrene	U		0.000282	0.00127	1	06/02/2022 18:36	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000375	0.00127	1	06/02/2022 18:36	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000292	0.00127	1	06/02/2022 18:36	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000539	0.00127	1	06/02/2022 18:36	WG1873257
Tetrachloroethene	U		0.000411	0.00127	1	06/02/2022 18:36	WG1873257
Toluene	U		0.00156	0.00633	1	06/02/2022 18:36	WG1873257
1,2,3-Trichlorobenzene	U		0.000387	0.00127	1	06/02/2022 18:36	WG1873257
1,2,4-Trichlorobenzene	U		0.000491	0.00127	1	06/02/2022 18:36	WG1873257
1,1,1-Trichloroethane	U		0.000468	0.00127	1	06/02/2022 18:36	WG1873257
1,1,2-Trichloroethane	U		0.000538	0.00127	1	06/02/2022 18:36	WG1873257
Trichloroethene	U		0.000253	0.00127	1	06/02/2022 18:36	WG1873257
Trichlorofluoromethane	U		0.000450	0.00633	1	06/02/2022 18:36	WG1873257
1,2,3-Trichloropropane	U	J4	0.000309	0.00316	1	06/02/2022 18:36	WG1873257
1,2,4-Trimethylbenzene	U		0.000267	0.00127	1	06/02/2022 18:36	WG1873257
1,2,3-Trimethylbenzene	U		0.000363	0.00127	1	06/02/2022 18:36	WG1873257
Vinyl chloride	U		0.000286	0.00127	1	06/02/2022 18:36	WG1873257
1,3,5-Trimethylbenzene	U		0.000337	0.00127	1	06/02/2022 18:36	WG1873257
Xylenes, Total	U		0.000633	0.00380	1	06/02/2022 18:36	WG1873257
(S) Toluene-d8	94.6			75.0-131		06/02/2022 18:36	WG1873257
(S) 4-Bromofluorobenzene	97.2			67.0-138		06/02/2022 18:36	WG1873257
(S) 1,2-Dichloroethane-d4	108			70.0-130		06/02/2022 18:36	WG1873257

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		110	253	1	06/02/2022 23:47	WG1872668
AK103 RRO C25-C36	U		84.3	253	1	06/02/2022 23:47	WG1872668
(S) o-Terphenyl	73.4			50.0-150		06/02/2022 23:47	WG1872668
(S) n-Triacontane d62	67.9			50.0-150		06/02/2022 23:47	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00291	0.00759	1	06/03/2022 04:22	WG1873409
Acenaphthene	U		0.00264	0.00759	1	06/03/2022 04:22	WG1873409
Acenaphthylene	U		0.00273	0.00759	1	06/03/2022 04:22	WG1873409
Benzo(a)anthracene	U		0.00219	0.00759	1	06/03/2022 04:22	WG1873409
Benzo(a)pyrene	U		0.00226	0.00759	1	06/03/2022 04:22	WG1873409
Benzo(b)fluoranthene	U		0.00194	0.00759	1	06/03/2022 04:22	WG1873409
Benzo(g,h,i)perylene	U		0.00224	0.00759	1	06/03/2022 04:22	WG1873409
Benzo(k)fluoranthene	U		0.00272	0.00759	1	06/03/2022 04:22	WG1873409
Chrysene	U		0.00294	0.00759	1	06/03/2022 04:22	WG1873409
Dibenz(a,h)anthracene	U		0.00218	0.00759	1	06/03/2022 04:22	WG1873409
Fluoranthene	U		0.00287	0.00759	1	06/03/2022 04:22	WG1873409
Fluorene	U		0.00259	0.00759	1	06/03/2022 04:22	WG1873409
Indeno(1,2,3-cd)pyrene	U		0.00229	0.00759	1	06/03/2022 04:22	WG1873409
Naphthalene	U		0.00516	0.0253	1	06/03/2022 04:22	WG1873409
Phenanthrene	U		0.00292	0.00759	1	06/03/2022 04:22	WG1873409
Pyrene	U		0.00253	0.00759	1	06/03/2022 04:22	WG1873409
1-Methylnaphthalene	U		0.00568	0.0253	1	06/03/2022 04:22	WG1873409
2-Methylnaphthalene	U		0.00540	0.0253	1	06/03/2022 04:22	WG1873409
2-Chloronaphthalene	U		0.00590	0.0253	1	06/03/2022 04:22	WG1873409

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	58.9			14.0-149		06/03/2022 04:22	WG1873409
(S) 2-Fluorobiphenyl	55.6			34.0-125		06/03/2022 04:22	WG1873409
(S) p-Terphenyl-d14	63.1			23.0-120		06/03/2022 04:22	WG1873409

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

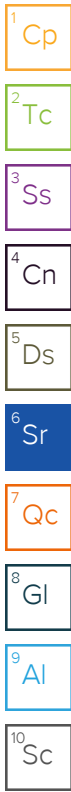
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	82.3		1	05/30/2022 06:47	WG1871349

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.15	3.04	1	05/31/2022 21:40	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	89.5			50.0-150		05/31/2022 21:40	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.709		0.0252	0.0608	1	06/02/2022 18:58	WG1873257
Acrylonitrile	U		0.00246	0.0122	1	06/02/2022 18:58	WG1873257
Benzene	U		0.000456	0.00122	1	06/02/2022 18:58	WG1873257
Bromobenzene	U		0.000334	0.00122	1	06/02/2022 18:58	WG1873257
Bromodichloromethane	U		0.000881	0.00122	1	06/02/2022 18:58	WG1873257
Bromoform	U		0.000515	0.00122	1	06/02/2022 18:58	WG1873257
Bromomethane	U		0.00142	0.00608	1	06/02/2022 18:58	WG1873257
n-Butylbenzene	U		0.000314	0.00122	1	06/02/2022 18:58	WG1873257
sec-Butylbenzene	U		0.000244	0.00122	1	06/02/2022 18:58	WG1873257
tert-Butylbenzene	U		0.000250	0.00122	1	06/02/2022 18:58	WG1873257
Carbon tetrachloride	U		0.000301	0.00122	1	06/02/2022 18:58	WG1873257
Chlorobenzene	U		0.000233	0.00122	1	06/02/2022 18:58	WG1873257
Chlorodibromomethane	U		0.000272	0.00122	1	06/02/2022 18:58	WG1873257
Chloroethane	U		0.00122	0.00608	1	06/02/2022 18:58	WG1873257
Chloroform	U		0.00125	0.00608	1	06/02/2022 18:58	WG1873257
Chloromethane	U	<u>C3</u>	0.000790	0.00304	1	06/02/2022 18:58	WG1873257
2-Chlorotoluene	U		0.000273	0.00122	1	06/02/2022 18:58	WG1873257
4-Chlorotoluene	U		0.000840	0.00122	1	06/02/2022 18:58	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00231	0.00608	1	06/02/2022 18:58	WG1873257
1,2-Dibromoethane	U		0.000304	0.00122	1	06/02/2022 18:58	WG1873257
Dibromomethane	U	<u>J4</u>	0.000425	0.00122	1	06/02/2022 18:58	WG1873257
1,2-Dichlorobenzene	U		0.000517	0.00122	1	06/02/2022 18:58	WG1873257
1,3-Dichlorobenzene	U		0.000729	0.00122	1	06/02/2022 18:58	WG1873257
1,4-Dichlorobenzene	U		0.00101	0.00122	1	06/02/2022 18:58	WG1873257
Dichlorodifluoromethane	U	<u>C3</u>	0.000349	0.00608	1	06/02/2022 18:58	WG1873257
1,1-Dichloroethane	U		0.000326	0.00122	1	06/02/2022 18:58	WG1873257
1,2-Dichloroethane	U		0.000547	0.00122	1	06/02/2022 18:58	WG1873257
1,1-Dichloroethene	U		0.000431	0.00122	1	06/02/2022 18:58	WG1873257
cis-1,2-Dichloroethene	U		0.000577	0.00122	1	06/02/2022 18:58	WG1873257
trans-1,2-Dichloroethene	U		0.000608	0.00122	1	06/02/2022 18:58	WG1873257
1,2-Dichloropropane	U		0.000199	0.00122	1	06/02/2022 18:58	WG1873257
1,1-Dichloropropene	U		0.000456	0.00122	1	06/02/2022 18:58	WG1873257
1,3-Dichloropropane	U		0.000273	0.00122	1	06/02/2022 18:58	WG1873257
cis-1,3-Dichloropropene	U		0.000517	0.00122	1	06/02/2022 18:58	WG1873257
trans-1,3-Dichloropropene	U		0.000820	0.00122	1	06/02/2022 18:58	WG1873257
2,2-Dichloropropane	U		0.000456	0.00122	1	06/02/2022 18:58	WG1873257
Di-isopropyl ether	U		0.000269	0.00122	1	06/02/2022 18:58	WG1873257
Ethylbenzene	U		0.000365	0.00122	1	06/02/2022 18:58	WG1873257
Hexachloro-1,3-butadiene	U		0.000416	0.00122	1	06/02/2022 18:58	WG1873257
Isopropylbenzene	U		0.000517	0.00122	1	06/02/2022 18:58	WG1873257
p-Isopropyltoluene	U		0.000248	0.00122	1	06/02/2022 18:58	WG1873257
2-Butanone (MEK)	0.0374		0.00569	0.0122	1	06/02/2022 18:58	WG1873257
Methylene Chloride	U		0.00122	0.00608	1	06/02/2022 18:58	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00115	0.0122	1	06/02/2022 18:58	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.000425	0.00122	1	06/02/2022 18:58	WG1873257
Naphthalene	U		0.00605	0.00608	1	06/02/2022 18:58	WG1873257
n-Propylbenzene	U		0.000250	0.00122	1	06/02/2022 18:58	WG1873257
Styrene	U		0.000271	0.00122	1	06/02/2022 18:58	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000360	0.00122	1	06/02/2022 18:58	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000281	0.00122	1	06/02/2022 18:58	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000518	0.00122	1	06/02/2022 18:58	WG1873257
Tetrachloroethene	U		0.000395	0.00122	1	06/02/2022 18:58	WG1873257
Toluene	U		0.00149	0.00608	1	06/02/2022 18:58	WG1873257
1,2,3-Trichlorobenzene	U		0.000372	0.00122	1	06/02/2022 18:58	WG1873257
1,2,4-Trichlorobenzene	U		0.000472	0.00122	1	06/02/2022 18:58	WG1873257
1,1,1-Trichloroethane	U		0.000450	0.00122	1	06/02/2022 18:58	WG1873257
1,1,2-Trichloroethane	U		0.000517	0.00122	1	06/02/2022 18:58	WG1873257
Trichloroethene	U		0.000243	0.00122	1	06/02/2022 18:58	WG1873257
Trichlorofluoromethane	U		0.000433	0.00608	1	06/02/2022 18:58	WG1873257
1,2,3-Trichloropropane	U	J4	0.000297	0.00304	1	06/02/2022 18:58	WG1873257
1,2,4-Trimethylbenzene	U		0.000256	0.00122	1	06/02/2022 18:58	WG1873257
1,2,3-Trimethylbenzene	U		0.000349	0.00122	1	06/02/2022 18:58	WG1873257
Vinyl chloride	U		0.000275	0.00122	1	06/02/2022 18:58	WG1873257
1,3,5-Trimethylbenzene	U		0.000323	0.00122	1	06/02/2022 18:58	WG1873257
Xylenes, Total	U		0.000608	0.00365	1	06/02/2022 18:58	WG1873257
(S) Toluene-d8	107			75.0-131		06/02/2022 18:58	WG1873257
(S) 4-Bromofluorobenzene	88.3			67.0-138		06/02/2022 18:58	WG1873257
(S) 1,2-Dichloroethane-d4	81.0			70.0-130		06/02/2022 18:58	WG1873257



Sample Narrative:

L1497358-09 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		105	243	1	06/02/2022 23:59	WG1872668
AK103 RRO C25-C36	U		80.9	243	1	06/02/2022 23:59	WG1872668
(S) o-Terphenyl	74.5			50.0-150		06/02/2022 23:59	WG1872668
(S) n-Triacontane d62	69.9			50.0-150		06/02/2022 23:59	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00280	0.00729	1	06/03/2022 12:54	WG1873415
Acenaphthene	U		0.00254	0.00729	1	06/03/2022 12:54	WG1873415
Acenaphthylene	U		0.00263	0.00729	1	06/03/2022 12:54	WG1873415
Benzo(a)anthracene	U		0.00210	0.00729	1	06/03/2022 12:54	WG1873415
Benzo(a)pyrene	U		0.00218	0.00729	1	06/03/2022 12:54	WG1873415
Benzo(b)fluoranthene	U		0.00186	0.00729	1	06/03/2022 12:54	WG1873415
Benzo(g,h,i)perylene	U		0.00215	0.00729	1	06/03/2022 12:54	WG1873415
Benzo(k)fluoranthene	U		0.00261	0.00729	1	06/03/2022 12:54	WG1873415
Chrysene	U		0.00282	0.00729	1	06/03/2022 12:54	WG1873415
Dibenz(a,h)anthracene	U		0.00209	0.00729	1	06/03/2022 12:54	WG1873415
Fluoranthene	U		0.00276	0.00729	1	06/03/2022 12:54	WG1873415
Fluorene	U		0.00249	0.00729	1	06/03/2022 12:54	WG1873415
Indeno(1,2,3-cd)pyrene	U		0.00220	0.00729	1	06/03/2022 12:54	WG1873415
Naphthalene	U		0.00496	0.0243	1	06/03/2022 12:54	WG1873415
Phenanthrene	U		0.00281	0.00729	1	06/03/2022 12:54	WG1873415
Pyrene	U		0.00243	0.00729	1	06/03/2022 12:54	WG1873415

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00546	0.0243	1	06/03/2022 12:54	WG1873415
2-Methylnaphthalene	U		0.00519	0.0243	1	06/03/2022 12:54	WG1873415
2-Chloronaphthalene	U		0.00566	0.0243	1	06/03/2022 12:54	WG1873415
<i>(S)</i> Nitrobenzene-d5	74.7			14.0-149		06/03/2022 12:54	WG1873415
<i>(S)</i> 2-Fluorobiphenyl	74.1			34.0-125		06/03/2022 12:54	WG1873415
<i>(S)</i> p-Terphenyl-d14	86.4			23.0-120		06/03/2022 12:54	WG1873415

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	53.0		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		19.6	51.5	10.9	05/31/2022 22:33	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	80.2			50.0-150		05/31/2022 22:33	WG1871774

Sample Narrative:

L1497358-10 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	1.44	V3	0.0390	0.0943	1	06/02/2022 19:19	WG1873257
Acrylonitrile	U		0.00381	0.0189	1	06/02/2022 19:19	WG1873257
Benzene	U		0.000707	0.00189	1	06/02/2022 19:19	WG1873257
Bromobenzene	U		0.000518	0.00189	1	06/02/2022 19:19	WG1873257
Bromodichloromethane	U		0.00137	0.00189	1	06/02/2022 19:19	WG1873257
Bromoform	U		0.000799	0.00189	1	06/02/2022 19:19	WG1873257
Bromomethane	U		0.00221	0.00943	1	06/02/2022 19:19	WG1873257
n-Butylbenzene	U		0.000486	0.00189	1	06/02/2022 19:19	WG1873257
sec-Butylbenzene	U		0.000379	0.00189	1	06/02/2022 19:19	WG1873257
tert-Butylbenzene	U		0.000388	0.00189	1	06/02/2022 19:19	WG1873257
Carbon tetrachloride	U		0.000468	0.00189	1	06/02/2022 19:19	WG1873257
Chlorobenzene	U		0.000362	0.00189	1	06/02/2022 19:19	WG1873257
Chlorodibromomethane	U		0.000422	0.00189	1	06/02/2022 19:19	WG1873257
Chloroethane	U		0.00189	0.00943	1	06/02/2022 19:19	WG1873257
Chloroform	U		0.00194	0.00943	1	06/02/2022 19:19	WG1873257
Chloromethane	U	C3	0.00123	0.00471	1	06/02/2022 19:19	WG1873257
2-Chlorotoluene	U		0.000424	0.00189	1	06/02/2022 19:19	WG1873257
4-Chlorotoluene	U		0.00130	0.00189	1	06/02/2022 19:19	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00358	0.00943	1	06/02/2022 19:19	WG1873257
1,2-Dibromoethane	U		0.000471	0.00189	1	06/02/2022 19:19	WG1873257
Dibromomethane	U	J4	0.000660	0.00189	1	06/02/2022 19:19	WG1873257
1,2-Dichlorobenzene	U		0.000801	0.00189	1	06/02/2022 19:19	WG1873257
1,3-Dichlorobenzene	U		0.00113	0.00189	1	06/02/2022 19:19	WG1873257
1,4-Dichlorobenzene	U		0.00156	0.00189	1	06/02/2022 19:19	WG1873257
Dichlorodifluoromethane	U	C3	0.000541	0.00943	1	06/02/2022 19:19	WG1873257
1,1-Dichloroethane	U		0.000505	0.00189	1	06/02/2022 19:19	WG1873257
1,2-Dichloroethane	U		0.000848	0.00189	1	06/02/2022 19:19	WG1873257
1,1-Dichloroethene	U		0.000669	0.00189	1	06/02/2022 19:19	WG1873257
cis-1,2-Dichloroethene	U		0.000896	0.00189	1	06/02/2022 19:19	WG1873257
trans-1,2-Dichloroethene	U		0.000943	0.00189	1	06/02/2022 19:19	WG1873257
1,2-Dichloropropane	U		0.000309	0.00189	1	06/02/2022 19:19	WG1873257
1,1-Dichloropropene	U		0.000707	0.00189	1	06/02/2022 19:19	WG1873257
1,3-Dichloropropane	U		0.000424	0.00189	1	06/02/2022 19:19	WG1873257
cis-1,3-Dichloropropene	U		0.000801	0.00189	1	06/02/2022 19:19	WG1873257
trans-1,3-Dichloropropene	U		0.00127	0.00189	1	06/02/2022 19:19	WG1873257
2,2-Dichloropropane	U		0.000707	0.00189	1	06/02/2022 19:19	WG1873257
Di-isopropyl ether	U		0.000417	0.00189	1	06/02/2022 19:19	WG1873257
Ethylbenzene	0.000803	J V3	0.000566	0.00189	1	06/02/2022 19:19	WG1873257
Hexachloro-1,3-butadiene	U		0.000645	0.00189	1	06/02/2022 19:19	WG1873257
Isopropylbenzene	U		0.000801	0.00189	1	06/02/2022 19:19	WG1873257
p-Isopropyltoluene	U		0.000385	0.00189	1	06/02/2022 19:19	WG1873257

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.200	V3	0.00882	0.0189	1	06/02/2022 19:19	WG1873257
Methylene Chloride	U		0.00189	0.00943	1	06/02/2022 19:19	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00179	0.0189	1	06/02/2022 19:19	WG1873257
Methyl tert-butyl ether	U		0.000660	0.00189	1	06/02/2022 19:19	WG1873257
Naphthalene	0.0156	V3	0.00939	0.00943	1	06/02/2022 19:19	WG1873257
n-Propylbenzene	0.00114	JV3	0.000388	0.00189	1	06/02/2022 19:19	WG1873257
Styrene	U		0.000420	0.00189	1	06/02/2022 19:19	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000558	0.00189	1	06/02/2022 19:19	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000436	0.00189	1	06/02/2022 19:19	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000803	0.00189	1	06/02/2022 19:19	WG1873257
Tetrachloroethene	U		0.000613	0.00189	1	06/02/2022 19:19	WG1873257
Toluene	0.00437	JV3	0.00232	0.00943	1	06/02/2022 19:19	WG1873257
1,2,3-Trichlorobenzene	U		0.000577	0.00189	1	06/02/2022 19:19	WG1873257
1,2,4-Trichlorobenzene	U		0.000732	0.00189	1	06/02/2022 19:19	WG1873257
1,1,1-Trichloroethane	U		0.000698	0.00189	1	06/02/2022 19:19	WG1873257
1,1,2-Trichloroethane	U		0.000801	0.00189	1	06/02/2022 19:19	WG1873257
Trichloroethene	U		0.000377	0.00189	1	06/02/2022 19:19	WG1873257
Trichlorofluoromethane	U		0.000671	0.00943	1	06/02/2022 19:19	WG1873257
1,2,3-Trichloropropane	U	J4	0.000460	0.00471	1	06/02/2022 19:19	WG1873257
1,2,4-Trimethylbenzene	0.00622	V3	0.000398	0.00189	1	06/02/2022 19:19	WG1873257
1,2,3-Trimethylbenzene	U		0.000541	0.00189	1	06/02/2022 19:19	WG1873257
Vinyl chloride	U		0.000426	0.00189	1	06/02/2022 19:19	WG1873257
1,3,5-Trimethylbenzene	0.00134	JV3	0.000502	0.00189	1	06/02/2022 19:19	WG1873257
Xylenes, Total	0.00992	V3	0.000943	0.00566	1	06/02/2022 19:19	WG1873257
(S) Toluene-d8	111			75.0-131		06/02/2022 19:19	WG1873257
(S) 4-Bromofluorobenzene	84.6			67.0-138		06/02/2022 19:19	WG1873257
(S) 1,2-Dichloroethane-d4	78.4			70.0-130		06/02/2022 19:19	WG1873257



Sample Narrative:

L1497358-10 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		163	377	1	06/03/2022 00:38	WG1872668
AK103 RRO C25-C36	1270		126	377	1	06/03/2022 00:38	WG1872668
(S) o-Terphenyl	64.7			50.0-150		06/03/2022 00:38	WG1872668
(S) n-Triacontane d62	57.4			50.0-150		06/03/2022 00:38	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00434	0.0113	1	06/03/2022 16:22	WG1873415
Acenaphthene	U		0.00394	0.0113	1	06/03/2022 16:22	WG1873415
Acenaphthylene	U		0.00407	0.0113	1	06/03/2022 16:22	WG1873415
Benzo(a)anthracene	U		0.00326	0.0113	1	06/03/2022 16:22	WG1873415
Benzo(a)pyrene	0.00662	J	0.00337	0.0113	1	06/03/2022 16:22	WG1873415
Benzo(b)fluoranthene	U		0.00288	0.0113	1	06/03/2022 16:22	WG1873415
Benzo(g,h,i)perylene	U		0.00334	0.0113	1	06/03/2022 16:22	WG1873415
Benzo(k)fluoranthene	U		0.00405	0.0113	1	06/03/2022 16:22	WG1873415
Chrysene	U		0.00437	0.0113	1	06/03/2022 16:22	WG1873415
Dibenz(a,h)anthracene	U		0.00324	0.0113	1	06/03/2022 16:22	WG1873415
Fluoranthene	U		0.00428	0.0113	1	06/03/2022 16:22	WG1873415
Fluorene	0.00439	J	0.00387	0.0113	1	06/03/2022 16:22	WG1873415
Indeno(1,2,3-cd)pyrene	U		0.00341	0.0113	1	06/03/2022 16:22	WG1873415

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00769	0.0377	1	06/03/2022 16:22	WG1873415
Phenanthrene	U		0.00436	0.0113	1	06/03/2022 16:22	WG1873415
Pyrene	U		0.00377	0.0113	1	06/03/2022 16:22	WG1873415
1-Methylnaphthalene	U		0.00847	0.0377	1	06/03/2022 16:22	WG1873415
2-Methylnaphthalene	U		0.00805	0.0377	1	06/03/2022 16:22	WG1873415
2-Chloronaphthalene	U		0.00879	0.0377	1	06/03/2022 16:22	WG1873415
<i>(S)</i> Nitrobenzene-d5	66.7			14.0-149		06/03/2022 16:22	WG1873415
<i>(S)</i> 2-Fluorobiphenyl	68.1			34.0-125		06/03/2022 16:22	WG1873415
<i>(S)</i> p-Terphenyl-d14	79.8			23.0-120		06/03/2022 16:22	WG1873415

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	59.0		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

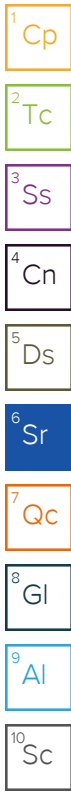
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		19.7	51.7	12.2	05/31/2022 23:00	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	75.6			50.0-150		05/31/2022 23:00	WG1871774

Sample Narrative:

L1497358-11 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.542	V3	0.0351	0.0847	1	06/02/2022 19:41	WG1873257
Acrylonitrile	U		0.00342	0.0169	1	06/02/2022 19:41	WG1873257
Benzene	U		0.000635	0.00169	1	06/02/2022 19:41	WG1873257
Bromobenzene	U		0.000466	0.00169	1	06/02/2022 19:41	WG1873257
Bromodichloromethane	U		0.00123	0.00169	1	06/02/2022 19:41	WG1873257
Bromoform	U		0.000718	0.00169	1	06/02/2022 19:41	WG1873257
Bromomethane	U		0.00198	0.00847	1	06/02/2022 19:41	WG1873257
n-Butylbenzene	U		0.000437	0.00169	1	06/02/2022 19:41	WG1873257
sec-Butylbenzene	U		0.000341	0.00169	1	06/02/2022 19:41	WG1873257
tert-Butylbenzene	U		0.000349	0.00169	1	06/02/2022 19:41	WG1873257
Carbon tetrachloride	U		0.000420	0.00169	1	06/02/2022 19:41	WG1873257
Chlorobenzene	U		0.000325	0.00169	1	06/02/2022 19:41	WG1873257
Chlorodibromomethane	U		0.000379	0.00169	1	06/02/2022 19:41	WG1873257
Chloroethane	U		0.00169	0.00847	1	06/02/2022 19:41	WG1873257
Chloroform	U		0.00174	0.00847	1	06/02/2022 19:41	WG1873257
Chloromethane	U	C3	0.00110	0.00424	1	06/02/2022 19:41	WG1873257
2-Chlorotoluene	U		0.000381	0.00169	1	06/02/2022 19:41	WG1873257
4-Chlorotoluene	U		0.00117	0.00169	1	06/02/2022 19:41	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00322	0.00847	1	06/02/2022 19:41	WG1873257
1,2-Dibromoethane	U		0.000424	0.00169	1	06/02/2022 19:41	WG1873257
Dibromomethane	U	J4	0.000593	0.00169	1	06/02/2022 19:41	WG1873257
1,2-Dichlorobenzene	U		0.000720	0.00169	1	06/02/2022 19:41	WG1873257
1,3-Dichlorobenzene	U		0.00102	0.00169	1	06/02/2022 19:41	WG1873257
1,4-Dichlorobenzene	U		0.00141	0.00169	1	06/02/2022 19:41	WG1873257
Dichlorodifluoromethane	U	C3	0.000486	0.00847	1	06/02/2022 19:41	WG1873257
1,1-Dichloroethane	U		0.000454	0.00169	1	06/02/2022 19:41	WG1873257
1,2-Dichloroethane	U		0.000762	0.00169	1	06/02/2022 19:41	WG1873257
1,1-Dichloroethene	U		0.000601	0.00169	1	06/02/2022 19:41	WG1873257
cis-1,2-Dichloroethene	U		0.000805	0.00169	1	06/02/2022 19:41	WG1873257
trans-1,2-Dichloroethene	U		0.000847	0.00169	1	06/02/2022 19:41	WG1873257
1,2-Dichloropropane	U		0.000278	0.00169	1	06/02/2022 19:41	WG1873257
1,1-Dichloropropene	U		0.000635	0.00169	1	06/02/2022 19:41	WG1873257
1,3-Dichloropropane	U		0.000381	0.00169	1	06/02/2022 19:41	WG1873257
cis-1,3-Dichloropropene	U		0.000720	0.00169	1	06/02/2022 19:41	WG1873257
trans-1,3-Dichloropropene	U		0.00114	0.00169	1	06/02/2022 19:41	WG1873257
2,2-Dichloropropane	U		0.000635	0.00169	1	06/02/2022 19:41	WG1873257
Di-isopropyl ether	U		0.000374	0.00169	1	06/02/2022 19:41	WG1873257
Ethylbenzene	U		0.000508	0.00169	1	06/02/2022 19:41	WG1873257
Hexachloro-1,3-butadiene	U		0.000579	0.00169	1	06/02/2022 19:41	WG1873257
Isopropylbenzene	U		0.000720	0.00169	1	06/02/2022 19:41	WG1873257
p-Isopropyltoluene	U		0.000346	0.00169	1	06/02/2022 19:41	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00793	0.0169	1	06/02/2022 19:41	WG1873257
Methylene Chloride	U		0.00169	0.00847	1	06/02/2022 19:41	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00161	0.0169	1	06/02/2022 19:41	WG1873257
Methyl tert-butyl ether	U		0.000593	0.00169	1	06/02/2022 19:41	WG1873257
Naphthalene	U		0.00844	0.00847	1	06/02/2022 19:41	WG1873257
n-Propylbenzene	U		0.000349	0.00169	1	06/02/2022 19:41	WG1873257
Styrene	U		0.000378	0.00169	1	06/02/2022 19:41	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000501	0.00169	1	06/02/2022 19:41	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000391	0.00169	1	06/02/2022 19:41	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000722	0.00169	1	06/02/2022 19:41	WG1873257
Tetrachloroethene	U		0.000551	0.00169	1	06/02/2022 19:41	WG1873257
Toluene	U		0.00208	0.00847	1	06/02/2022 19:41	WG1873257
1,2,3-Trichlorobenzene	U		0.000518	0.00169	1	06/02/2022 19:41	WG1873257
1,2,4-Trichlorobenzene	U		0.000657	0.00169	1	06/02/2022 19:41	WG1873257
1,1,1-Trichloroethane	U		0.000627	0.00169	1	06/02/2022 19:41	WG1873257
1,1,2-Trichloroethane	U		0.000720	0.00169	1	06/02/2022 19:41	WG1873257
Trichloroethene	U		0.000339	0.00169	1	06/02/2022 19:41	WG1873257
Trichlorofluoromethane	U		0.000603	0.00847	1	06/02/2022 19:41	WG1873257
1,2,3-Trichloropropane	U	J4	0.000413	0.00424	1	06/02/2022 19:41	WG1873257
1,2,4-Trimethylbenzene	U		0.000357	0.00169	1	06/02/2022 19:41	WG1873257
1,2,3-Trimethylbenzene	U		0.000486	0.00169	1	06/02/2022 19:41	WG1873257
Vinyl chloride	U		0.000383	0.00169	1	06/02/2022 19:41	WG1873257
1,3,5-Trimethylbenzene	U		0.000451	0.00169	1	06/02/2022 19:41	WG1873257
Xylenes, Total	0.00105	JV3	0.000847	0.00508	1	06/02/2022 19:41	WG1873257
(S) Toluene-d8	117			75.0-131		06/02/2022 19:41	WG1873257
(S) 4-Bromofluorobenzene	66.4	J2		67.0-138		06/02/2022 19:41	WG1873257
(S) 1,2-Dichloroethane-d4	75.4			70.0-130		06/02/2022 19:41	WG1873257



Sample Narrative:

L1497358-11 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		147	339	1	06/03/2022 00:50	WG1872668
AK103 RRO C25-C36	678		113	339	1	06/03/2022 00:50	WG1872668
(S) o-Terphenyl	59.4			50.0-150		06/03/2022 00:50	WG1872668
(S) n-Triacontane d62	60.0			50.0-150		06/03/2022 00:50	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00390	0.0102	1	06/03/2022 13:11	WG1873415
Acenaphthene	U		0.00354	0.0102	1	06/03/2022 13:11	WG1873415
Acenaphthylene	U		0.00366	0.0102	1	06/03/2022 13:11	WG1873415
Benzo(a)anthracene	U		0.00293	0.0102	1	06/03/2022 13:11	WG1873415
Benzo(a)pyrene	0.00313	J	0.00303	0.0102	1	06/03/2022 13:11	WG1873415
Benzo(b)fluoranthene	U		0.00259	0.0102	1	06/03/2022 13:11	WG1873415
Benzo(g,h,i)perylene	U		0.00300	0.0102	1	06/03/2022 13:11	WG1873415
Benzo(k)fluoranthene	U		0.00364	0.0102	1	06/03/2022 13:11	WG1873415
Chrysene	U		0.00393	0.0102	1	06/03/2022 13:11	WG1873415
Dibenz(a,h)anthracene	U		0.00291	0.0102	1	06/03/2022 13:11	WG1873415
Fluoranthene	U		0.00385	0.0102	1	06/03/2022 13:11	WG1873415
Fluorene	U		0.00347	0.0102	1	06/03/2022 13:11	WG1873415
Indeno(1,2,3-cd)pyrene	U		0.00307	0.0102	1	06/03/2022 13:11	WG1873415

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00691	0.0339	1	06/03/2022 13:11	WG1873415
Phenanthrene	U		0.00391	0.0102	1	06/03/2022 13:11	WG1873415
Pyrene	U		0.00339	0.0102	1	06/03/2022 13:11	WG1873415
1-Methylnaphthalene	U		0.00761	0.0339	1	06/03/2022 13:11	WG1873415
2-Methylnaphthalene	U		0.00723	0.0339	1	06/03/2022 13:11	WG1873415
2-Chloronaphthalene	U		0.00789	0.0339	1	06/03/2022 13:11	WG1873415
<i>(S)</i> Nitrobenzene-d5	73.1			14.0-149		06/03/2022 13:11	WG1873415
<i>(S)</i> 2-Fluorobiphenyl	63.6			34.0-125		06/03/2022 13:11	WG1873415
<i>(S)</i> p-Terphenyl-d14	69.5			23.0-120		06/03/2022 13:11	WG1873415

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	42.2		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

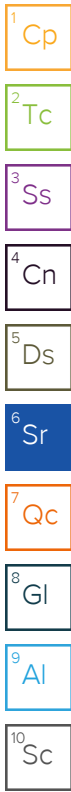
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		18.0	47.4	8	05/31/2022 23:26	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	79.0			50.0-150		05/31/2022 23:26	WG1871774

Sample Narrative:

L1497358-12 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.652		0.0491	0.119	1	06/02/2022 20:03	WG1873257
Acrylonitrile	U		0.00479	0.0237	1	06/02/2022 20:03	WG1873257
Benzene	U		0.000890	0.00237	1	06/02/2022 20:03	WG1873257
Bromobenzene	U		0.000652	0.00237	1	06/02/2022 20:03	WG1873257
Bromodichloromethane	U		0.00172	0.00237	1	06/02/2022 20:03	WG1873257
Bromoform	U		0.00101	0.00237	1	06/02/2022 20:03	WG1873257
Bromomethane	U		0.00278	0.0119	1	06/02/2022 20:03	WG1873257
n-Butylbenzene	U		0.000612	0.00237	1	06/02/2022 20:03	WG1873257
sec-Butylbenzene	U		0.000477	0.00237	1	06/02/2022 20:03	WG1873257
tert-Butylbenzene	U		0.000489	0.00237	1	06/02/2022 20:03	WG1873257
Carbon tetrachloride	U		0.000588	0.00237	1	06/02/2022 20:03	WG1873257
Chlorobenzene	U		0.000455	0.00237	1	06/02/2022 20:03	WG1873257
Chlorodibromomethane	U		0.000531	0.00237	1	06/02/2022 20:03	WG1873257
Chloroethane	U		0.00237	0.0119	1	06/02/2022 20:03	WG1873257
Chloroform	U		0.00244	0.0119	1	06/02/2022 20:03	WG1873257
Chloromethane	U	C3	0.00154	0.00593	1	06/02/2022 20:03	WG1873257
2-Chlorotoluene	U		0.000534	0.00237	1	06/02/2022 20:03	WG1873257
4-Chlorotoluene	U		0.00164	0.00237	1	06/02/2022 20:03	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00451	0.0119	1	06/02/2022 20:03	WG1873257
1,2-Dibromoethane	U		0.000593	0.00237	1	06/02/2022 20:03	WG1873257
Dibromomethane	U	J4	0.000830	0.00237	1	06/02/2022 20:03	WG1873257
1,2-Dichlorobenzene	U		0.00101	0.00237	1	06/02/2022 20:03	WG1873257
1,3-Dichlorobenzene	U		0.00142	0.00237	1	06/02/2022 20:03	WG1873257
1,4-Dichlorobenzene	U		0.00197	0.00237	1	06/02/2022 20:03	WG1873257
Dichlorodifluoromethane	U	C3	0.000681	0.0119	1	06/02/2022 20:03	WG1873257
1,1-Dichloroethane	U		0.000636	0.00237	1	06/02/2022 20:03	WG1873257
1,2-Dichloroethane	U		0.00107	0.00237	1	06/02/2022 20:03	WG1873257
1,1-Dichloroethene	U		0.000842	0.00237	1	06/02/2022 20:03	WG1873257
cis-1,2-Dichloroethene	U		0.00113	0.00237	1	06/02/2022 20:03	WG1873257
trans-1,2-Dichloroethene	U		0.00119	0.00237	1	06/02/2022 20:03	WG1873257
1,2-Dichloropropane	U		0.000389	0.00237	1	06/02/2022 20:03	WG1873257
1,1-Dichloropropene	U		0.000890	0.00237	1	06/02/2022 20:03	WG1873257
1,3-Dichloropropane	U		0.000534	0.00237	1	06/02/2022 20:03	WG1873257
cis-1,3-Dichloropropene	U		0.00101	0.00237	1	06/02/2022 20:03	WG1873257
trans-1,3-Dichloropropene	U		0.00160	0.00237	1	06/02/2022 20:03	WG1873257
2,2-Dichloropropane	U		0.000890	0.00237	1	06/02/2022 20:03	WG1873257
Di-isopropyl ether	U		0.000524	0.00237	1	06/02/2022 20:03	WG1873257
Ethylbenzene	0.000743	J V3	0.000712	0.00237	1	06/02/2022 20:03	WG1873257
Hexachloro-1,3-butadiene	U		0.000811	0.00237	1	06/02/2022 20:03	WG1873257
Isopropylbenzene	U		0.00101	0.00237	1	06/02/2022 20:03	WG1873257
p-Isopropyltoluene	U		0.000484	0.00237	1	06/02/2022 20:03	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.0790	<u>V3</u>	0.0111	0.0237	1	06/02/2022 20:03	WG1873257
Methylene Chloride	U		0.00237	0.0119	1	06/02/2022 20:03	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00225	0.0237	1	06/02/2022 20:03	WG1873257
Methyl tert-butyl ether	U		0.000830	0.00237	1	06/02/2022 20:03	WG1873257
Naphthalene	U		0.0118	0.0119	1	06/02/2022 20:03	WG1873257
n-Propylbenzene	U		0.000489	0.00237	1	06/02/2022 20:03	WG1873257
Styrene	U		0.000529	0.00237	1	06/02/2022 20:03	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000702	0.00237	1	06/02/2022 20:03	WG1873257
1,1,2,2-Tetrachloroethane	U	<u>J4</u>	0.000548	0.00237	1	06/02/2022 20:03	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.00101	0.00237	1	06/02/2022 20:03	WG1873257
Tetrachloroethene	U		0.000771	0.00237	1	06/02/2022 20:03	WG1873257
Toluene	U		0.00292	0.0119	1	06/02/2022 20:03	WG1873257
1,2,3-Trichlorobenzene	U		0.000726	0.00237	1	06/02/2022 20:03	WG1873257
1,2,4-Trichlorobenzene	U		0.000920	0.00237	1	06/02/2022 20:03	WG1873257
1,1,1-Trichloroethane	U		0.000878	0.00237	1	06/02/2022 20:03	WG1873257
1,1,2-Trichloroethane	U		0.00101	0.00237	1	06/02/2022 20:03	WG1873257
Trichloroethene	U		0.000474	0.00237	1	06/02/2022 20:03	WG1873257
Trichlorofluoromethane	U		0.000845	0.0119	1	06/02/2022 20:03	WG1873257
1,2,3-Trichloropropane	U	<u>J4</u>	0.000579	0.00593	1	06/02/2022 20:03	WG1873257
1,2,4-Trimethylbenzene	0.00503	<u>V3</u>	0.000501	0.00237	1	06/02/2022 20:03	WG1873257
1,2,3-Trimethylbenzene	U		0.000681	0.00237	1	06/02/2022 20:03	WG1873257
Vinyl chloride	U		0.000536	0.00237	1	06/02/2022 20:03	WG1873257
1,3,5-Trimethylbenzene	U		0.000631	0.00237	1	06/02/2022 20:03	WG1873257
Xylenes, Total	0.00643	<u>J V3</u>	0.00119	0.00712	1	06/02/2022 20:03	WG1873257
(S) Toluene-d8	136	<u>J1</u>		75.0-131		06/02/2022 20:03	WG1873257
(S) 4-Bromofluorobenzene	71.0			67.0-138		06/02/2022 20:03	WG1873257
(S) 1,2-Dichloroethane-d4	73.9			70.0-130		06/02/2022 20:03	WG1873257

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Sample Narrative:

L1497358-12 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	215	<u>J</u>	205	474	1	06/03/2022 01:03	WG1872668
AK103 RRO C25-C36	2140		158	474	1	06/03/2022 01:03	WG1872668
(S) o-Terphenyl	59.3			50.0-150		06/03/2022 01:03	WG1872668
(S) n-Triacontane d62	56.2			50.0-150		06/03/2022 01:03	WG1872668

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00546	0.0142	1	06/03/2022 17:15	WG1873415
Acenaphthene	U		0.00496	0.0142	1	06/03/2022 17:15	WG1873415
Acenaphthylene	U		0.00512	0.0142	1	06/03/2022 17:15	WG1873415
Benzo(a)anthracene	U		0.00410	0.0142	1	06/03/2022 17:15	WG1873415
Benzo(a)pyrene	U		0.00425	0.0142	1	06/03/2022 17:15	WG1873415
Benzo(b)fluoranthene	0.00520	<u>J</u>	0.00363	0.0142	1	06/03/2022 17:15	WG1873415
Benzo(g,h,i)perylene	U		0.00420	0.0142	1	06/03/2022 17:15	WG1873415
Benzo(k)fluoranthene	U		0.00510	0.0142	1	06/03/2022 17:15	WG1873415
Chrysene	U		0.00550	0.0142	1	06/03/2022 17:15	WG1873415
Dibenz(a,h)anthracene	U		0.00408	0.0142	1	06/03/2022 17:15	WG1873415
Fluoranthene	0.00728	<u>J</u>	0.00539	0.0142	1	06/03/2022 17:15	WG1873415
Fluorene	0.0240		0.00486	0.0142	1	06/03/2022 17:15	WG1873415
Indeno(1,2,3-cd)pyrene	U		0.00429	0.0142	1	06/03/2022 17:15	WG1873415

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00968	0.0474	1	06/03/2022 17:15	WG1873415
Phenanthrene	U		0.00548	0.0142	1	06/03/2022 17:15	WG1873415
Pyrene	0.00562	J	0.00474	0.0142	1	06/03/2022 17:15	WG1873415
1-Methylnaphthalene	U		0.0107	0.0474	1	06/03/2022 17:15	WG1873415
2-Methylnaphthalene	U		0.0101	0.0474	1	06/03/2022 17:15	WG1873415
2-Chloronaphthalene	U		0.0111	0.0474	1	06/03/2022 17:15	WG1873415
<i>(S)</i> Nitrobenzene-d5	53.3			14.0-149		06/03/2022 17:15	WG1873415
<i>(S)</i> 2-Fluorobiphenyl	53.0			34.0-125		06/03/2022 17:15	WG1873415
<i>(S)</i> p-Terphenyl-d14	61.3			23.0-120		06/03/2022 17:15	WG1873415

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	34.6		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

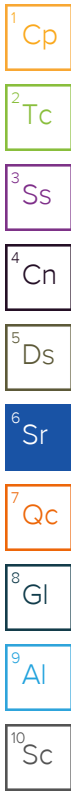
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		30.9	81.8	11.3	05/31/2022 23:52	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	82.2			50.0-150		05/31/2022 23:52	WG1871774

Sample Narrative:

L1497358-13 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	0.564	V3	0.0599	0.145	1	06/02/2022 20:24	WG1873257
Acrylonitrile	U		0.00584	0.0289	1	06/02/2022 20:24	WG1873257
Benzene	U		0.00108	0.00289	1	06/02/2022 20:24	WG1873257
Bromobenzene	U		0.000795	0.00289	1	06/02/2022 20:24	WG1873257
Bromodichloromethane	U		0.00210	0.00289	1	06/02/2022 20:24	WG1873257
Bromoform	U		0.00123	0.00289	1	06/02/2022 20:24	WG1873257
Bromomethane	U		0.00338	0.0145	1	06/02/2022 20:24	WG1873257
n-Butylbenzene	U		0.000746	0.00289	1	06/02/2022 20:24	WG1873257
sec-Butylbenzene	U		0.000581	0.00289	1	06/02/2022 20:24	WG1873257
tert-Butylbenzene	U		0.000596	0.00289	1	06/02/2022 20:24	WG1873257
Carbon tetrachloride	U		0.000717	0.00289	1	06/02/2022 20:24	WG1873257
Chlorobenzene	U		0.000555	0.00289	1	06/02/2022 20:24	WG1873257
Chlorodibromomethane	U		0.000648	0.00289	1	06/02/2022 20:24	WG1873257
Chloroethane	U		0.00289	0.0145	1	06/02/2022 20:24	WG1873257
Chloroform	U		0.00298	0.0145	1	06/02/2022 20:24	WG1873257
Chloromethane	U	C3	0.00188	0.00723	1	06/02/2022 20:24	WG1873257
2-Chlorotoluene	U		0.000651	0.00289	1	06/02/2022 20:24	WG1873257
4-Chlorotoluene	U		0.00200	0.00289	1	06/02/2022 20:24	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00549	0.0145	1	06/02/2022 20:24	WG1873257
1,2-Dibromoethane	U		0.000723	0.00289	1	06/02/2022 20:24	WG1873257
Dibromomethane	U	J4	0.00101	0.00289	1	06/02/2022 20:24	WG1873257
1,2-Dichlorobenzene	U		0.00123	0.00289	1	06/02/2022 20:24	WG1873257
1,3-Dichlorobenzene	U		0.00173	0.00289	1	06/02/2022 20:24	WG1873257
1,4-Dichlorobenzene	U		0.00240	0.00289	1	06/02/2022 20:24	WG1873257
Dichlorodifluoromethane	U	C3	0.000830	0.0145	1	06/02/2022 20:24	WG1873257
1,1-Dichloroethane	U		0.000775	0.00289	1	06/02/2022 20:24	WG1873257
1,2-Dichloroethane	U		0.00130	0.00289	1	06/02/2022 20:24	WG1873257
1,1-Dichloroethene	U		0.00103	0.00289	1	06/02/2022 20:24	WG1873257
cis-1,2-Dichloroethene	U		0.00137	0.00289	1	06/02/2022 20:24	WG1873257
trans-1,2-Dichloroethene	U		0.00145	0.00289	1	06/02/2022 20:24	WG1873257
1,2-Dichloropropane	U		0.000474	0.00289	1	06/02/2022 20:24	WG1873257
1,1-Dichloropropene	U		0.00108	0.00289	1	06/02/2022 20:24	WG1873257
1,3-Dichloropropane	U		0.000651	0.00289	1	06/02/2022 20:24	WG1873257
cis-1,3-Dichloropropene	U		0.00123	0.00289	1	06/02/2022 20:24	WG1873257
trans-1,3-Dichloropropene	U		0.00195	0.00289	1	06/02/2022 20:24	WG1873257
2,2-Dichloropropane	U		0.00108	0.00289	1	06/02/2022 20:24	WG1873257
Di-isopropyl ether	U		0.000639	0.00289	1	06/02/2022 20:24	WG1873257
Ethylbenzene	U		0.000867	0.00289	1	06/02/2022 20:24	WG1873257
Hexachloro-1,3-butadiene	U		0.000989	0.00289	1	06/02/2022 20:24	WG1873257
Isopropylbenzene	U		0.00123	0.00289	1	06/02/2022 20:24	WG1873257
p-Isopropyltoluene	U		0.000590	0.00289	1	06/02/2022 20:24	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.0135	0.0289	1	06/02/2022 20:24	WG1873257
Methylene Chloride	U		0.00289	0.0145	1	06/02/2022 20:24	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00275	0.0289	1	06/02/2022 20:24	WG1873257
Methyl tert-butyl ether	U		0.00101	0.00289	1	06/02/2022 20:24	WG1873257
Naphthalene	U		0.0144	0.0145	1	06/02/2022 20:24	WG1873257
n-Propylbenzene	U		0.000596	0.00289	1	06/02/2022 20:24	WG1873257
Styrene	U		0.000645	0.00289	1	06/02/2022 20:24	WG1873257
1,1,1-Tetrachloroethane	U		0.000856	0.00289	1	06/02/2022 20:24	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000668	0.00289	1	06/02/2022 20:24	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.00123	0.00289	1	06/02/2022 20:24	WG1873257
Tetrachloroethene	U		0.000940	0.00289	1	06/02/2022 20:24	WG1873257
Toluene	U		0.00356	0.0145	1	06/02/2022 20:24	WG1873257
1,2,3-Trichlorobenzene	U		0.000885	0.00289	1	06/02/2022 20:24	WG1873257
1,2,4-Trichlorobenzene	U		0.00112	0.00289	1	06/02/2022 20:24	WG1873257
1,1,1-Trichloroethane	U		0.00107	0.00289	1	06/02/2022 20:24	WG1873257
1,1,2-Trichloroethane	U		0.00123	0.00289	1	06/02/2022 20:24	WG1873257
Trichloroethene	U		0.000578	0.00289	1	06/02/2022 20:24	WG1873257
Trichlorofluoromethane	U		0.00103	0.0145	1	06/02/2022 20:24	WG1873257
1,2,3-Trichloropropane	U	J4	0.000706	0.00723	1	06/02/2022 20:24	WG1873257
1,2,4-Trimethylbenzene	U		0.000610	0.00289	1	06/02/2022 20:24	WG1873257
1,2,3-Trimethylbenzene	U		0.000830	0.00289	1	06/02/2022 20:24	WG1873257
Vinyl chloride	U		0.000653	0.00289	1	06/02/2022 20:24	WG1873257
1,3,5-Trimethylbenzene	U		0.000769	0.00289	1	06/02/2022 20:24	WG1873257
Xylenes, Total	U		0.00145	0.00867	1	06/02/2022 20:24	WG1873257
(S) Toluene-d8	136	J1		75.0-131		06/02/2022 20:24	WG1873257
(S) 4-Bromofluorobenzene	71.2			67.0-138		06/02/2022 20:24	WG1873257
(S) 1,2-Dichloroethane-d4	83.4			70.0-130		06/02/2022 20:24	WG1873257



Sample Narrative:

L1497358-13 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	274	J	250	578	1	06/04/2022 19:21	WG1873375
AK103 RRO C25-C36	2620		193	578	1	06/04/2022 19:21	WG1873375
(S) o-Terphenyl	91.9			50.0-150		06/04/2022 19:21	WG1873375
(S) n-Triacontane d62	89.2			50.0-150		06/04/2022 19:21	WG1873375

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00665	0.0173	1	06/03/2022 14:25	WG1873424
Acenaphthene	U		0.00604	0.0173	1	06/03/2022 14:25	WG1873424
Acenaphthylene	U		0.00625	0.0173	1	06/03/2022 14:25	WG1873424
Benzo(a)anthracene	U		0.00500	0.0173	1	06/03/2022 14:25	WG1873424
Benzo(a)pyrene	U		0.00518	0.0173	1	06/03/2022 14:25	WG1873424
Benzo(b)fluoranthene	U		0.00442	0.0173	1	06/03/2022 14:25	WG1873424
Benzo(g,h,i)perylene	U		0.00512	0.0173	1	06/03/2022 14:25	WG1873424
Benzo(k)fluoranthene	U		0.00622	0.0173	1	06/03/2022 14:25	WG1873424
Chrysene	U		0.00671	0.0173	1	06/03/2022 14:25	WG1873424
Dibenz(a,h)anthracene	U		0.00497	0.0173	1	06/03/2022 14:25	WG1873424
Fluoranthene	U		0.00656	0.0173	1	06/03/2022 14:25	WG1873424
Fluorene	0.0347		0.00593	0.0173	1	06/03/2022 14:25	WG1873424
Indeno(1,2,3-cd)pyrene	U		0.00523	0.0173	1	06/03/2022 14:25	WG1873424

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.0118	0.0578	1	06/03/2022 14:25	WG1873424
Phenanthrene	U		0.00668	0.0173	1	06/03/2022 14:25	WG1873424
Pyrene	U		0.00578	0.0173	1	06/03/2022 14:25	WG1873424
1-Methylnaphthalene	U		0.0130	0.0578	1	06/03/2022 14:25	WG1873424
2-Methylnaphthalene	U		0.0123	0.0578	1	06/03/2022 14:25	WG1873424
2-Chloronaphthalene	U		0.0135	0.0578	1	06/03/2022 14:25	WG1873424
<i>(S)</i> Nitrobenzene-d5	96.5			14.0-149		06/03/2022 14:25	WG1873424
<i>(S)</i> 2-Fluorobiphenyl	52.0			34.0-125		06/03/2022 14:25	WG1873424
<i>(S)</i> p-Terphenyl-d14	58.0			23.0-120		06/03/2022 14:25	WG1873424

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	80.4		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		10.8	28.3	9.12	06/01/2022 00:19	WG1871774
(S) a, a, a-Trifluorotoluene(FID)	77.2			50.0-150		06/01/2022 00:19	WG1871774

Sample Narrative:

L1497358-14 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.138	V3	0.0257	0.0622	1	06/02/2022 21:12	WG1873257
Acrylonitrile	U		0.00251	0.0124	1	06/02/2022 21:12	WG1873257
Benzene	U		0.000466	0.00124	1	06/02/2022 21:12	WG1873257
Bromobenzene	U		0.000342	0.00124	1	06/02/2022 21:12	WG1873257
Bromodichloromethane	U		0.000901	0.00124	1	06/02/2022 21:12	WG1873257
Bromoform	U		0.000527	0.00124	1	06/02/2022 21:12	WG1873257
Bromomethane	U		0.00145	0.00622	1	06/02/2022 21:12	WG1873257
n-Butylbenzene	U		0.000321	0.00124	1	06/02/2022 21:12	WG1873257
sec-Butylbenzene	U		0.000250	0.00124	1	06/02/2022 21:12	WG1873257
tert-Butylbenzene	U		0.000256	0.00124	1	06/02/2022 21:12	WG1873257
Carbon tetrachloride	U		0.000308	0.00124	1	06/02/2022 21:12	WG1873257
Chlorobenzene	U		0.000239	0.00124	1	06/02/2022 21:12	WG1873257
Chlorodibromomethane	U		0.000278	0.00124	1	06/02/2022 21:12	WG1873257
Chloroethane	U		0.00124	0.00622	1	06/02/2022 21:12	WG1873257
Chloroform	U		0.00128	0.00622	1	06/02/2022 21:12	WG1873257
Chloromethane	U	C3	0.000808	0.00311	1	06/02/2022 21:12	WG1873257
2-Chlorotoluene	U		0.000280	0.00124	1	06/02/2022 21:12	WG1873257
4-Chlorotoluene	U		0.000859	0.00124	1	06/02/2022 21:12	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00236	0.00622	1	06/02/2022 21:12	WG1873257
1,2-Dibromoethane	U		0.000311	0.00124	1	06/02/2022 21:12	WG1873257
Dibromomethane	U	J4	0.000435	0.00124	1	06/02/2022 21:12	WG1873257
1,2-Dichlorobenzene	U		0.000528	0.00124	1	06/02/2022 21:12	WG1873257
1,3-Dichlorobenzene	U		0.000746	0.00124	1	06/02/2022 21:12	WG1873257
1,4-Dichlorobenzene	U		0.00103	0.00124	1	06/02/2022 21:12	WG1873257
Dichlorodifluoromethane	U	C3	0.000357	0.00622	1	06/02/2022 21:12	WG1873257
1,1-Dichloroethane	U		0.000333	0.00124	1	06/02/2022 21:12	WG1873257
1,2-Dichloroethane	U		0.000559	0.00124	1	06/02/2022 21:12	WG1873257
1,1-Dichloroethene	U		0.000441	0.00124	1	06/02/2022 21:12	WG1873257
cis-1,2-Dichloroethene	U		0.000590	0.00124	1	06/02/2022 21:12	WG1873257
trans-1,2-Dichloroethene	U		0.000622	0.00124	1	06/02/2022 21:12	WG1873257
1,2-Dichloropropane	U		0.000204	0.00124	1	06/02/2022 21:12	WG1873257
1,1-Dichloropropene	U		0.000466	0.00124	1	06/02/2022 21:12	WG1873257
1,3-Dichloropropane	U		0.000280	0.00124	1	06/02/2022 21:12	WG1873257
cis-1,3-Dichloropropene	U		0.000528	0.00124	1	06/02/2022 21:12	WG1873257
trans-1,3-Dichloropropene	U		0.000839	0.00124	1	06/02/2022 21:12	WG1873257
2,2-Dichloropropane	U		0.000466	0.00124	1	06/02/2022 21:12	WG1873257
Di-isopropyl ether	U		0.000275	0.00124	1	06/02/2022 21:12	WG1873257
Ethylbenzene	U		0.000373	0.00124	1	06/02/2022 21:12	WG1873257
Hexachloro-1,3-butadiene	U		0.000425	0.00124	1	06/02/2022 21:12	WG1873257
Isopropylbenzene	U		0.000528	0.00124	1	06/02/2022 21:12	WG1873257
p-Isopropyltoluene	U		0.000254	0.00124	1	06/02/2022 21:12	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00582	0.0124	1	06/02/2022 21:12	WG1873257
Methylene Chloride	U		0.00124	0.00622	1	06/02/2022 21:12	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00118	0.0124	1	06/02/2022 21:12	WG1873257
Methyl tert-butyl ether	U		0.000435	0.00124	1	06/02/2022 21:12	WG1873257
Naphthalene	U		0.00619	0.00622	1	06/02/2022 21:12	WG1873257
n-Propylbenzene	U		0.000256	0.00124	1	06/02/2022 21:12	WG1873257
Styrene	U		0.000277	0.00124	1	06/02/2022 21:12	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000368	0.00124	1	06/02/2022 21:12	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000287	0.00124	1	06/02/2022 21:12	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000530	0.00124	1	06/02/2022 21:12	WG1873257
Tetrachloroethene	U		0.000404	0.00124	1	06/02/2022 21:12	WG1873257
Toluene	U		0.00153	0.00622	1	06/02/2022 21:12	WG1873257
1,2,3-Trichlorobenzene	U		0.000380	0.00124	1	06/02/2022 21:12	WG1873257
1,2,4-Trichlorobenzene	U		0.000482	0.00124	1	06/02/2022 21:12	WG1873257
1,1,1-Trichloroethane	U		0.000460	0.00124	1	06/02/2022 21:12	WG1873257
1,1,2-Trichloroethane	U		0.000528	0.00124	1	06/02/2022 21:12	WG1873257
Trichloroethene	U		0.000249	0.00124	1	06/02/2022 21:12	WG1873257
Trichlorofluoromethane	U		0.000443	0.00622	1	06/02/2022 21:12	WG1873257
1,2,3-Trichloropropane	U	J4	0.000303	0.00311	1	06/02/2022 21:12	WG1873257
1,2,4-Trimethylbenzene	0.000265	JV3	0.000262	0.00124	1	06/02/2022 21:12	WG1873257
1,2,3-Trimethylbenzene	U		0.000357	0.00124	1	06/02/2022 21:12	WG1873257
Vinyl chloride	U		0.000281	0.00124	1	06/02/2022 21:12	WG1873257
1,3,5-Trimethylbenzene	U		0.000331	0.00124	1	06/02/2022 21:12	WG1873257
Xylenes, Total	U		0.000622	0.00373	1	06/02/2022 21:12	WG1873257
(S) Toluene-d8	102			75.0-131		06/02/2022 21:12	WG1873257
(S) 4-Bromofluorobenzene	87.0			67.0-138		06/02/2022 21:12	WG1873257
(S) 1,2-Dichloroethane-d4	81.4			70.0-130		06/02/2022 21:12	WG1873257

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Sample Narrative:

L1497358-14 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		538	1240	5	06/04/2022 12:07	WG1873375
AK103 RRO C25-C36	1500		414	1240	5	06/04/2022 12:07	WG1873375
(S) o-Terphenyl	96.2			50.0-150		06/04/2022 12:07	WG1873375
(S) n-Triacontane d62	84.3			50.0-150		06/04/2022 12:07	WG1873375

Sample Narrative:

L1497358-14 WG1873375: Cannot run at lower dilution due to viscosity of extract

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00310	J	0.00286	0.00746	1	06/03/2022 16:48	WG1873424
Acenaphthene	U		0.00260	0.00746	1	06/03/2022 16:48	WG1873424
Acenaphthylene	U		0.00269	0.00746	1	06/03/2022 16:48	WG1873424
Benzo(a)anthracene	0.0103		0.00215	0.00746	1	06/03/2022 16:48	WG1873424
Benzo(a)pyrene	0.0168		0.00223	0.00746	1	06/03/2022 16:48	WG1873424
Benzo(b)fluoranthene	0.0200		0.00190	0.00746	1	06/03/2022 16:48	WG1873424
Benzo(g,h,i)perylene	0.0287		0.00220	0.00746	1	06/03/2022 16:48	WG1873424
Benzo(k)fluoranthene	U		0.00267	0.00746	1	06/03/2022 16:48	WG1873424
Chrysene	0.00808		0.00288	0.00746	1	06/03/2022 16:48	WG1873424
Dibenz(a,h)anthracene	0.0114		0.00214	0.00746	1	06/03/2022 16:48	WG1873424

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Fluoranthene	0.0158		0.00282	0.00746	1	06/03/2022 16:48	WG1873424
Fluorene	U		0.00255	0.00746	1	06/03/2022 16:48	WG1873424
Indeno(1,2,3-cd)pyrene	0.0112		0.00225	0.00746	1	06/03/2022 16:48	WG1873424
Naphthalene	U		0.00507	0.0249	1	06/03/2022 16:48	WG1873424
Phenanthrene	0.0160		0.00287	0.00746	1	06/03/2022 16:48	WG1873424
Pyrene	0.0246		0.00249	0.00746	1	06/03/2022 16:48	WG1873424
1-Methylnaphthalene	0.00618	U	0.00558	0.0249	1	06/03/2022 16:48	WG1873424
2-Methylnaphthalene	0.0148	U	0.00531	0.0249	1	06/03/2022 16:48	WG1873424
2-Chloronaphthalene	U		0.00579	0.0249	1	06/03/2022 16:48	WG1873424
<i>(S)</i> Nitrobenzene-d5	38.9			14.0-149		06/03/2022 16:48	WG1873424
<i>(S)</i> 2-Fluorobiphenyl	66.1			34.0-125		06/03/2022 16:48	WG1873424
<i>(S)</i> p-Terphenyl-d14	72.4			23.0-120		06/03/2022 16:48	WG1873424

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	79.2		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

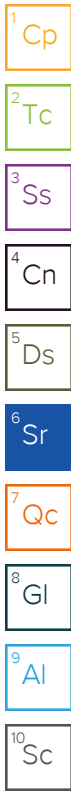
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		9.59	25.2	8	06/01/2022 00:45	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	87.3			50.0-150		06/01/2022 00:45	WG1871774

Sample Narrative:

L1497358-15 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.355		0.0261	0.0631	1	06/01/2022 20:01	WG1872540
Acrylonitrile	U		0.00255	0.0126	1	06/01/2022 20:01	WG1872540
Benzene	0.00246		0.000473	0.00126	1	06/01/2022 20:01	WG1872540
Bromobenzene	U		0.000347	0.00126	1	06/01/2022 20:01	WG1872540
Bromodichloromethane	U		0.000915	0.00126	1	06/01/2022 20:01	WG1872540
Bromoform	U		0.000535	0.00126	1	06/01/2022 20:01	WG1872540
Bromomethane	0.00157	J	0.00148	0.00631	1	06/01/2022 20:01	WG1872540
n-Butylbenzene	U		0.000326	0.00126	1	06/01/2022 20:01	WG1872540
sec-Butylbenzene	U		0.000254	0.00126	1	06/01/2022 20:01	WG1872540
tert-Butylbenzene	U		0.000260	0.00126	1	06/01/2022 20:01	WG1872540
Carbon tetrachloride	U		0.000313	0.00126	1	06/01/2022 20:01	WG1872540
Chlorobenzene	U		0.000242	0.00126	1	06/01/2022 20:01	WG1872540
Chlorodibromomethane	U		0.000283	0.00126	1	06/01/2022 20:01	WG1872540
Chloroethane	U		0.00126	0.00631	1	06/01/2022 20:01	WG1872540
Chloroform	U		0.00130	0.00631	1	06/01/2022 20:01	WG1872540
Chloromethane	U	C3	0.000821	0.00316	1	06/01/2022 20:01	WG1872540
2-Chlorotoluene	U		0.000284	0.00126	1	06/01/2022 20:01	WG1872540
4-Chlorotoluene	U		0.000872	0.00126	1	06/01/2022 20:01	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00240	0.00631	1	06/01/2022 20:01	WG1872540
1,2-Dibromoethane	U		0.000316	0.00126	1	06/01/2022 20:01	WG1872540
Dibromomethane	U		0.000442	0.00126	1	06/01/2022 20:01	WG1872540
1,2-Dichlorobenzene	U		0.000537	0.00126	1	06/01/2022 20:01	WG1872540
1,3-Dichlorobenzene	U		0.000757	0.00126	1	06/01/2022 20:01	WG1872540
1,4-Dichlorobenzene	U		0.00105	0.00126	1	06/01/2022 20:01	WG1872540
Dichlorodifluoromethane	U	C3	0.000362	0.00631	1	06/01/2022 20:01	WG1872540
1,1-Dichloroethane	U		0.000338	0.00126	1	06/01/2022 20:01	WG1872540
1,2-Dichloroethane	U		0.000568	0.00126	1	06/01/2022 20:01	WG1872540
1,1-Dichloroethene	U		0.000448	0.00126	1	06/01/2022 20:01	WG1872540
cis-1,2-Dichloroethene	U		0.000600	0.00126	1	06/01/2022 20:01	WG1872540
trans-1,2-Dichloroethene	U	C3	0.000631	0.00126	1	06/01/2022 20:01	WG1872540
1,2-Dichloropropane	U		0.000207	0.00126	1	06/01/2022 20:01	WG1872540
1,1-Dichloropropene	U		0.000473	0.00126	1	06/01/2022 20:01	WG1872540
1,3-Dichloropropane	U		0.000284	0.00126	1	06/01/2022 20:01	WG1872540
cis-1,3-Dichloropropene	U		0.000537	0.00126	1	06/01/2022 20:01	WG1872540
trans-1,3-Dichloropropene	U		0.000852	0.00126	1	06/01/2022 20:01	WG1872540
2,2-Dichloropropane	U		0.000473	0.00126	1	06/01/2022 20:01	WG1872540
Di-isopropyl ether	U		0.000279	0.00126	1	06/01/2022 20:01	WG1872540
Ethylbenzene	U		0.000379	0.00126	1	06/01/2022 20:01	WG1872540
Hexachloro-1,3-butadiene	U	C3	0.000432	0.00126	1	06/01/2022 20:01	WG1872540
Isopropylbenzene	U		0.000537	0.00126	1	06/01/2022 20:01	WG1872540
p-Isopropyltoluene	U		0.000258	0.00126	1	06/01/2022 20:01	WG1872540



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.0198		0.00591	0.0126	1	06/01/2022 20:01	WG1872540
Methylene Chloride	U		0.00126	0.00631	1	06/01/2022 20:01	WG1872540
4-Methyl-2-pentanone (MIBK)	0.00189	J	0.00120	0.0126	1	06/01/2022 20:01	WG1872540
Methyl tert-butyl ether	U		0.000442	0.00126	1	06/01/2022 20:01	WG1872540
Naphthalene	U		0.00629	0.00631	1	06/01/2022 20:01	WG1872540
n-Propylbenzene	U		0.000260	0.00126	1	06/01/2022 20:01	WG1872540
Styrene	U		0.000282	0.00126	1	06/01/2022 20:01	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000374	0.00126	1	06/01/2022 20:01	WG1872540
1,1,2,2-Tetrachloroethane	U		0.000292	0.00126	1	06/01/2022 20:01	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000538	0.00126	1	06/01/2022 20:01	WG1872540
Tetrachloroethene	U		0.000410	0.00126	1	06/01/2022 20:01	WG1872540
Toluene	U		0.00155	0.00631	1	06/01/2022 20:01	WG1872540
1,2,3-Trichlorobenzene	U		0.000386	0.00126	1	06/01/2022 20:01	WG1872540
1,2,4-Trichlorobenzene	U		0.000490	0.00126	1	06/01/2022 20:01	WG1872540
1,1,1-Trichloroethane	U		0.000467	0.00126	1	06/01/2022 20:01	WG1872540
1,1,2-Trichloroethane	U		0.000537	0.00126	1	06/01/2022 20:01	WG1872540
Trichloroethene	U		0.000252	0.00126	1	06/01/2022 20:01	WG1872540
Trichlorofluoromethane	U		0.000449	0.00631	1	06/01/2022 20:01	WG1872540
1,2,3-Trichloropropane	U		0.000308	0.00316	1	06/01/2022 20:01	WG1872540
1,2,4-Trimethylbenzene	U		0.000266	0.00126	1	06/01/2022 20:01	WG1872540
1,2,3-Trimethylbenzene	U		0.000362	0.00126	1	06/01/2022 20:01	WG1872540
Vinyl chloride	U	C3	0.000285	0.00126	1	06/01/2022 20:01	WG1872540
1,3,5-Trimethylbenzene	U		0.000336	0.00126	1	06/01/2022 20:01	WG1872540
Xylenes, Total	U		0.000631	0.00379	1	06/01/2022 20:01	WG1872540
(S) Toluene-d8	99.9			75.0-131		06/01/2022 20:01	WG1872540
(S) 4-Bromofluorobenzene	95.1			67.0-138		06/01/2022 20:01	WG1872540
(S) 1,2-Dichloroethane-d4	77.0			70.0-130		06/01/2022 20:01	WG1872540

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		109	252	1	06/04/2022 23:36	WG1873377
AK103 RRO C25-C36	265		84.1	252	1	06/04/2022 23:36	WG1873377
(S) o-Terphenyl	96.2			50.0-150		06/04/2022 23:36	WG1873377
(S) n-Triacontane d62	86.2			50.0-150		06/04/2022 23:36	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00290	0.00757	1	06/03/2022 12:38	WG1873424
Acenaphthene	U		0.00264	0.00757	1	06/03/2022 12:38	WG1873424
Acenaphthylene	U		0.00273	0.00757	1	06/03/2022 12:38	WG1873424
Benzo(a)anthracene	U		0.00218	0.00757	1	06/03/2022 12:38	WG1873424
Benzo(a)pyrene	U		0.00226	0.00757	1	06/03/2022 12:38	WG1873424
Benzo(b)fluoranthene	U		0.00193	0.00757	1	06/03/2022 12:38	WG1873424
Benzo(g,h,i)perylene	U		0.00223	0.00757	1	06/03/2022 12:38	WG1873424
Benzo(k)fluoranthene	U		0.00271	0.00757	1	06/03/2022 12:38	WG1873424
Chrysene	U		0.00293	0.00757	1	06/03/2022 12:38	WG1873424
Dibenz(a,h)anthracene	U		0.00217	0.00757	1	06/03/2022 12:38	WG1873424
Fluoranthene	U		0.00287	0.00757	1	06/03/2022 12:38	WG1873424
Fluorene	U		0.00259	0.00757	1	06/03/2022 12:38	WG1873424
Indeno(1,2,3-cd)pyrene	U		0.00229	0.00757	1	06/03/2022 12:38	WG1873424
Naphthalene	U		0.00515	0.0252	1	06/03/2022 12:38	WG1873424
Phenanthrene	U		0.00292	0.00757	1	06/03/2022 12:38	WG1873424
Pyrene	U		0.00252	0.00757	1	06/03/2022 12:38	WG1873424

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00567	0.0252	1	06/03/2022 12:38	WG1873424
2-Methylnaphthalene	U		0.00539	0.0252	1	06/03/2022 12:38	WG1873424
2-Chloronaphthalene	U		0.00588	0.0252	1	06/03/2022 12:38	WG1873424
<i>(S)</i> Nitrobenzene-d5	82.3			14.0-149		06/03/2022 12:38	WG1873424
<i>(S)</i> 2-Fluorobiphenyl	80.0			34.0-125		06/03/2022 12:38	WG1873424
<i>(S)</i> p-Terphenyl-d14	87.3			23.0-120		06/03/2022 12:38	WG1873424

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	87.1		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

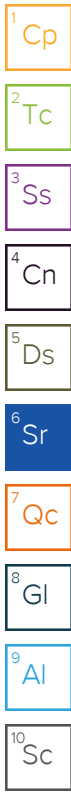
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		9.07	23.9	8.32	06/01/2022 01:12	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	81.9			50.0-150		06/01/2022 01:12	WG1871774

Sample Narrative:

L1497358-16 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.247		0.0238	0.0574	1	06/01/2022 20:23	WG1872540
Acrylonitrile	U		0.00232	0.0115	1	06/01/2022 20:23	WG1872540
Benzene	0.00193		0.000431	0.00115	1	06/01/2022 20:23	WG1872540
Bromobenzene	U		0.000316	0.00115	1	06/01/2022 20:23	WG1872540
Bromodichloromethane	U		0.000833	0.00115	1	06/01/2022 20:23	WG1872540
Bromoform	U		0.000487	0.00115	1	06/01/2022 20:23	WG1872540
Bromomethane	0.00152	J	0.00134	0.00574	1	06/01/2022 20:23	WG1872540
n-Butylbenzene	U		0.000296	0.00115	1	06/01/2022 20:23	WG1872540
sec-Butylbenzene	U		0.000231	0.00115	1	06/01/2022 20:23	WG1872540
tert-Butylbenzene	U		0.000237	0.00115	1	06/01/2022 20:23	WG1872540
Carbon tetrachloride	U		0.000285	0.00115	1	06/01/2022 20:23	WG1872540
Chlorobenzene	U		0.000220	0.00115	1	06/01/2022 20:23	WG1872540
Chlorodibromomethane	U		0.000257	0.00115	1	06/01/2022 20:23	WG1872540
Chloroethane	U		0.00115	0.00574	1	06/01/2022 20:23	WG1872540
Chloroform	U		0.00118	0.00574	1	06/01/2022 20:23	WG1872540
Chloromethane	U	C3	0.000746	0.00287	1	06/01/2022 20:23	WG1872540
2-Chlorotoluene	U		0.000258	0.00115	1	06/01/2022 20:23	WG1872540
4-Chlorotoluene	U		0.000794	0.00115	1	06/01/2022 20:23	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00218	0.00574	1	06/01/2022 20:23	WG1872540
1,2-Dibromoethane	U		0.000287	0.00115	1	06/01/2022 20:23	WG1872540
Dibromomethane	U		0.000402	0.00115	1	06/01/2022 20:23	WG1872540
1,2-Dichlorobenzene	U		0.000488	0.00115	1	06/01/2022 20:23	WG1872540
1,3-Dichlorobenzene	U		0.000689	0.00115	1	06/01/2022 20:23	WG1872540
1,4-Dichlorobenzene	U		0.000953	0.00115	1	06/01/2022 20:23	WG1872540
Dichlorodifluoromethane	U	C3	0.000330	0.00574	1	06/01/2022 20:23	WG1872540
1,1-Dichloroethane	U		0.000308	0.00115	1	06/01/2022 20:23	WG1872540
1,2-Dichloroethane	U		0.000517	0.00115	1	06/01/2022 20:23	WG1872540
1,1-Dichloroethene	U		0.000408	0.00115	1	06/01/2022 20:23	WG1872540
cis-1,2-Dichloroethene	U		0.000545	0.00115	1	06/01/2022 20:23	WG1872540
trans-1,2-Dichloroethene	U	C3	0.000574	0.00115	1	06/01/2022 20:23	WG1872540
1,2-Dichloropropane	U		0.000188	0.00115	1	06/01/2022 20:23	WG1872540
1,1-Dichloropropene	U		0.000431	0.00115	1	06/01/2022 20:23	WG1872540
1,3-Dichloropropane	U		0.000258	0.00115	1	06/01/2022 20:23	WG1872540
cis-1,3-Dichloropropene	U		0.000488	0.00115	1	06/01/2022 20:23	WG1872540
trans-1,3-Dichloropropene	U		0.000775	0.00115	1	06/01/2022 20:23	WG1872540
2,2-Dichloropropane	U		0.000431	0.00115	1	06/01/2022 20:23	WG1872540
Di-isopropyl ether	U		0.000254	0.00115	1	06/01/2022 20:23	WG1872540
Ethylbenzene	U		0.000345	0.00115	1	06/01/2022 20:23	WG1872540
Hexachloro-1,3-butadiene	U	C3	0.000393	0.00115	1	06/01/2022 20:23	WG1872540
Isopropylbenzene	U		0.000488	0.00115	1	06/01/2022 20:23	WG1872540
p-Isopropyltoluene	U		0.000234	0.00115	1	06/01/2022 20:23	WG1872540



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.0153		0.00537	0.0115	1	06/01/2022 20:23	WG1872540
Methylene Chloride	U		0.00115	0.00574	1	06/01/2022 20:23	WG1872540
4-Methyl-2-pentanone (MIBK)	U		0.00109	0.0115	1	06/01/2022 20:23	WG1872540
Methyl tert-butyl ether	U		0.000402	0.00115	1	06/01/2022 20:23	WG1872540
Naphthalene	U		0.00572	0.00574	1	06/01/2022 20:23	WG1872540
n-Propylbenzene	U		0.000237	0.00115	1	06/01/2022 20:23	WG1872540
Styrene	U		0.000256	0.00115	1	06/01/2022 20:23	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000340	0.00115	1	06/01/2022 20:23	WG1872540
1,1,2,2-Tetrachloroethane	U		0.000265	0.00115	1	06/01/2022 20:23	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000489	0.00115	1	06/01/2022 20:23	WG1872540
Tetrachloroethene	U		0.000373	0.00115	1	06/01/2022 20:23	WG1872540
Toluene	U		0.00141	0.00574	1	06/01/2022 20:23	WG1872540
1,2,3-Trichlorobenzene	U		0.000351	0.00115	1	06/01/2022 20:23	WG1872540
1,2,4-Trichlorobenzene	U		0.000446	0.00115	1	06/01/2022 20:23	WG1872540
1,1,1-Trichloroethane	U		0.000425	0.00115	1	06/01/2022 20:23	WG1872540
1,1,2-Trichloroethane	U		0.000488	0.00115	1	06/01/2022 20:23	WG1872540
Trichloroethene	U		0.000230	0.00115	1	06/01/2022 20:23	WG1872540
Trichlorofluoromethane	U		0.000409	0.00574	1	06/01/2022 20:23	WG1872540
1,2,3-Trichloropropane	U		0.000280	0.00287	1	06/01/2022 20:23	WG1872540
1,2,4-Trimethylbenzene	U		0.000242	0.00115	1	06/01/2022 20:23	WG1872540
1,2,3-Trimethylbenzene	U		0.000330	0.00115	1	06/01/2022 20:23	WG1872540
Vinyl chloride	U	C3	0.000260	0.00115	1	06/01/2022 20:23	WG1872540
1,3,5-Trimethylbenzene	U		0.000305	0.00115	1	06/01/2022 20:23	WG1872540
Xylenes, Total	U		0.000574	0.00345	1	06/01/2022 20:23	WG1872540
(S) Toluene-d8	95.3			75.0-131		06/01/2022 20:23	WG1872540
(S) 4-Bromofluorobenzene	93.9			67.0-138		06/01/2022 20:23	WG1872540
(S) 1,2-Dichloroethane-d4	76.9			70.0-130		06/01/2022 20:23	WG1872540

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		99.4	230	1	06/04/2022 22:20	WG1873377
AK103 RRO C25-C36	U		76.5	230	1	06/04/2022 22:20	WG1873377
(S) o-Terphenyl	84.3			50.0-150		06/04/2022 22:20	WG1873377
(S) n-Triacontane d62	84.4			50.0-150		06/04/2022 22:20	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00264	0.00689	1	06/03/2022 12:55	WG1873424
Acenaphthene	U		0.00240	0.00689	1	06/03/2022 12:55	WG1873424
Acenaphthylene	U		0.00248	0.00689	1	06/03/2022 12:55	WG1873424
Benzo(a)anthracene	U		0.00199	0.00689	1	06/03/2022 12:55	WG1873424
Benzo(a)pyrene	U		0.00206	0.00689	1	06/03/2022 12:55	WG1873424
Benzo(b)fluoranthene	U		0.00176	0.00689	1	06/03/2022 12:55	WG1873424
Benzo(g,h,i)perylene	U		0.00203	0.00689	1	06/03/2022 12:55	WG1873424
Benzo(k)fluoranthene	U		0.00247	0.00689	1	06/03/2022 12:55	WG1873424
Chrysene	U		0.00266	0.00689	1	06/03/2022 12:55	WG1873424
Dibenz(a,h)anthracene	U		0.00198	0.00689	1	06/03/2022 12:55	WG1873424
Fluoranthene	U		0.00261	0.00689	1	06/03/2022 12:55	WG1873424
Fluorene	U		0.00235	0.00689	1	06/03/2022 12:55	WG1873424
Indeno(1,2,3-cd)pyrene	U		0.00208	0.00689	1	06/03/2022 12:55	WG1873424
Naphthalene	U		0.00469	0.0230	1	06/03/2022 12:55	WG1873424
Phenanthrene	U		0.00265	0.00689	1	06/03/2022 12:55	WG1873424
Pyrene	U		0.00230	0.00689	1	06/03/2022 12:55	WG1873424

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00516	0.0230	1	06/03/2022 12:55	WG1873424
2-Methylnaphthalene	U		0.00490	0.0230	1	06/03/2022 12:55	WG1873424
2-Chloronaphthalene	U		0.00535	0.0230	1	06/03/2022 12:55	WG1873424
<i>(S)</i> Nitrobenzene-d5	78.2			14.0-149		06/03/2022 12:55	WG1873424
<i>(S)</i> 2-Fluorobiphenyl	71.1			34.0-125		06/03/2022 12:55	WG1873424
<i>(S)</i> p-Terphenyl-d14	82.6			23.0-120		06/03/2022 12:55	WG1873424

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	58.0		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

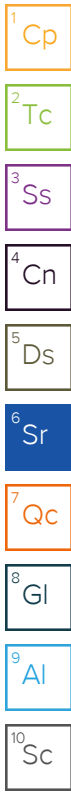
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		37.7	99.1	23	06/01/2022 01:38	WG1871774
(S) a,a,a-Trifluorotoluene(FID)	78.9			50.0-150		06/01/2022 01:38	WG1871774

Sample Narrative:

L1497358-17 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.286	V3	0.0357	0.0862	1	06/02/2022 21:33	WG1873257
Acrylonitrile	U		0.00348	0.0172	1	06/02/2022 21:33	WG1873257
Benzene	U		0.000646	0.00172	1	06/02/2022 21:33	WG1873257
Bromobenzene	U		0.000474	0.00172	1	06/02/2022 21:33	WG1873257
Bromodichloromethane	U		0.00125	0.00172	1	06/02/2022 21:33	WG1873257
Bromoform	U		0.000731	0.00172	1	06/02/2022 21:33	WG1873257
Bromomethane	U		0.00202	0.00862	1	06/02/2022 21:33	WG1873257
n-Butylbenzene	U		0.000445	0.00172	1	06/02/2022 21:33	WG1873257
sec-Butylbenzene	U		0.000346	0.00172	1	06/02/2022 21:33	WG1873257
tert-Butylbenzene	U		0.000355	0.00172	1	06/02/2022 21:33	WG1873257
Carbon tetrachloride	U		0.000427	0.00172	1	06/02/2022 21:33	WG1873257
Chlorobenzene	U		0.000331	0.00172	1	06/02/2022 21:33	WG1873257
Chlorodibromomethane	U		0.000386	0.00172	1	06/02/2022 21:33	WG1873257
Chloroethane	U		0.00172	0.00862	1	06/02/2022 21:33	WG1873257
Chloroform	U		0.00178	0.00862	1	06/02/2022 21:33	WG1873257
Chloromethane	U	C3	0.00112	0.00431	1	06/02/2022 21:33	WG1873257
2-Chlorotoluene	U		0.000388	0.00172	1	06/02/2022 21:33	WG1873257
4-Chlorotoluene	U		0.00119	0.00172	1	06/02/2022 21:33	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00327	0.00862	1	06/02/2022 21:33	WG1873257
1,2-Dibromoethane	U		0.000431	0.00172	1	06/02/2022 21:33	WG1873257
Dibromomethane	U	J4	0.000603	0.00172	1	06/02/2022 21:33	WG1873257
1,2-Dichlorobenzene	U		0.000733	0.00172	1	06/02/2022 21:33	WG1873257
1,3-Dichlorobenzene	U		0.00103	0.00172	1	06/02/2022 21:33	WG1873257
1,4-Dichlorobenzene	U		0.00143	0.00172	1	06/02/2022 21:33	WG1873257
Dichlorodifluoromethane	U	C3	0.000495	0.00862	1	06/02/2022 21:33	WG1873257
1,1-Dichloroethane	U		0.000462	0.00172	1	06/02/2022 21:33	WG1873257
1,2-Dichloroethane	U		0.000776	0.00172	1	06/02/2022 21:33	WG1873257
1,1-Dichloroethene	U		0.000612	0.00172	1	06/02/2022 21:33	WG1873257
cis-1,2-Dichloroethene	U		0.000819	0.00172	1	06/02/2022 21:33	WG1873257
trans-1,2-Dichloroethene	U		0.000862	0.00172	1	06/02/2022 21:33	WG1873257
1,2-Dichloropropane	U		0.000283	0.00172	1	06/02/2022 21:33	WG1873257
1,1-Dichloropropene	U		0.000646	0.00172	1	06/02/2022 21:33	WG1873257
1,3-Dichloropropane	U		0.000388	0.00172	1	06/02/2022 21:33	WG1873257
cis-1,3-Dichloropropene	U		0.000733	0.00172	1	06/02/2022 21:33	WG1873257
trans-1,3-Dichloropropene	U		0.00116	0.00172	1	06/02/2022 21:33	WG1873257
2,2-Dichloropropane	U		0.000646	0.00172	1	06/02/2022 21:33	WG1873257
Di-isopropyl ether	U		0.000381	0.00172	1	06/02/2022 21:33	WG1873257
Ethylbenzene	U		0.000517	0.00172	1	06/02/2022 21:33	WG1873257
Hexachloro-1,3-butadiene	U		0.000589	0.00172	1	06/02/2022 21:33	WG1873257
Isopropylbenzene	U		0.000733	0.00172	1	06/02/2022 21:33	WG1873257
p-Isopropyltoluene	U		0.000352	0.00172	1	06/02/2022 21:33	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.0445	V3	0.00807	0.0172	1	06/02/2022 21:33	WG1873257
Methylene Chloride	U		0.00172	0.00862	1	06/02/2022 21:33	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00164	0.0172	1	06/02/2022 21:33	WG1873257
Methyl tert-butyl ether	U		0.000603	0.00172	1	06/02/2022 21:33	WG1873257
Naphthalene	U		0.00858	0.00862	1	06/02/2022 21:33	WG1873257
n-Propylbenzene	U		0.000355	0.00172	1	06/02/2022 21:33	WG1873257
Styrene	U		0.000384	0.00172	1	06/02/2022 21:33	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000510	0.00172	1	06/02/2022 21:33	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000398	0.00172	1	06/02/2022 21:33	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000734	0.00172	1	06/02/2022 21:33	WG1873257
Tetrachloroethene	U		0.000560	0.00172	1	06/02/2022 21:33	WG1873257
Toluene	0.0355	V3	0.00212	0.00862	1	06/02/2022 21:33	WG1873257
1,2,3-Trichlorobenzene	U		0.000527	0.00172	1	06/02/2022 21:33	WG1873257
1,2,4-Trichlorobenzene	U		0.000669	0.00172	1	06/02/2022 21:33	WG1873257
1,1,1-Trichloroethane	U		0.000638	0.00172	1	06/02/2022 21:33	WG1873257
1,1,2-Trichloroethane	U		0.000733	0.00172	1	06/02/2022 21:33	WG1873257
Trichloroethene	U		0.000345	0.00172	1	06/02/2022 21:33	WG1873257
Trichlorofluoromethane	U		0.000614	0.00862	1	06/02/2022 21:33	WG1873257
1,2,3-Trichloropropane	U	J4	0.000421	0.00431	1	06/02/2022 21:33	WG1873257
1,2,4-Trimethylbenzene	U		0.000364	0.00172	1	06/02/2022 21:33	WG1873257
1,2,3-Trimethylbenzene	U		0.000495	0.00172	1	06/02/2022 21:33	WG1873257
Vinyl chloride	U		0.000390	0.00172	1	06/02/2022 21:33	WG1873257
1,3,5-Trimethylbenzene	U		0.000458	0.00172	1	06/02/2022 21:33	WG1873257
Xylenes, Total	U		0.000862	0.00517	1	06/02/2022 21:33	WG1873257
(S) Toluene-d8	132	J1		75.0-131		06/02/2022 21:33	WG1873257
(S) 4-Bromofluorobenzene	63.6	J2		67.0-138		06/02/2022 21:33	WG1873257
(S) 1,2-Dichloroethane-d4	73.2			70.0-130		06/02/2022 21:33	WG1873257



Sample Narrative:

L1497358-17 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		149	345	1	06/05/2022 02:21	WG1873377
AK103 RRO C25-C36	903		115	345	1	06/05/2022 02:21	WG1873377
(S) o-Terphenyl	108			50.0-150		06/05/2022 02:21	WG1873377
(S) n-Triacontane d62	83.3			50.0-150		06/05/2022 02:21	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0386		0.00396	0.0103	1	06/03/2022 15:18	WG1873424
Acenaphthene	0.00920	J	0.00360	0.0103	1	06/03/2022 15:18	WG1873424
Acenaphthylene	U		0.00372	0.0103	1	06/03/2022 15:18	WG1873424
Benzo(a)anthracene	0.215		0.00298	0.0103	1	06/03/2022 15:18	WG1873424
Benzo(a)pyrene	0.253		0.00309	0.0103	1	06/03/2022 15:18	WG1873424
Benzo(b)fluoranthene	0.434		0.00264	0.0103	1	06/03/2022 15:18	WG1873424
Benzo(g,h,i)perylene	0.245		0.00305	0.0103	1	06/03/2022 15:18	WG1873424
Benzo(k)fluoranthene	0.148		0.00371	0.0103	1	06/03/2022 15:18	WG1873424
Chrysene	0.272		0.00400	0.0103	1	06/03/2022 15:18	WG1873424
Dibenz(a,h)anthracene	0.0414		0.00296	0.0103	1	06/03/2022 15:18	WG1873424
Fluoranthene	0.612		0.00391	0.0103	1	06/03/2022 15:18	WG1873424
Fluorene	0.0115		0.00353	0.0103	1	06/03/2022 15:18	WG1873424
Indeno(1,2,3-cd)pyrene	0.271		0.00312	0.0103	1	06/03/2022 15:18	WG1873424

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00703	0.0345	1	06/03/2022 15:18	WG1873424
Phenanthrene	0.246		0.00398	0.0103	1	06/03/2022 15:18	WG1873424
Pyrene	0.455		0.00345	0.0103	1	06/03/2022 15:18	WG1873424
1-Methylnaphthalene	U		0.00774	0.0345	1	06/03/2022 15:18	WG1873424
2-Methylnaphthalene	U		0.00736	0.0345	1	06/03/2022 15:18	WG1873424
2-Chloronaphthalene	U		0.00803	0.0345	1	06/03/2022 15:18	WG1873424
<i>(S)</i> Nitrobenzene-d5	110			14.0-149		06/03/2022 15:18	WG1873424
<i>(S)</i> 2-Fluorobiphenyl	70.0			34.0-125		06/03/2022 15:18	WG1873424
<i>(S)</i> p-Terphenyl-d14	77.6			23.0-120		06/03/2022 15:18	WG1873424

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	86.8		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

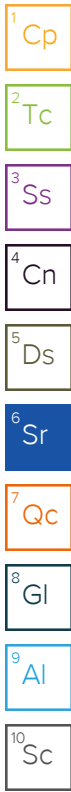
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		8.75	23.0	8	06/01/2022 02:05	WG1871774
(S) a, a, a-Trifluorotoluene(FID)	80.9			50.0-150		06/01/2022 02:05	WG1871774

Sample Narrative:

L1497358-18 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.0807	V3	0.0238	0.0576	1	06/02/2022 21:54	WG1873257
Acrylonitrile	U		0.00233	0.0115	1	06/02/2022 21:54	WG1873257
Benzene	U		0.000432	0.00115	1	06/02/2022 21:54	WG1873257
Bromobenzene	U		0.000317	0.00115	1	06/02/2022 21:54	WG1873257
Bromodichloromethane	U		0.000835	0.00115	1	06/02/2022 21:54	WG1873257
Bromoform	U		0.000488	0.00115	1	06/02/2022 21:54	WG1873257
Bromomethane	U		0.00135	0.00576	1	06/02/2022 21:54	WG1873257
n-Butylbenzene	U		0.000297	0.00115	1	06/02/2022 21:54	WG1873257
sec-Butylbenzene	U		0.000231	0.00115	1	06/02/2022 21:54	WG1873257
tert-Butylbenzene	U		0.000237	0.00115	1	06/02/2022 21:54	WG1873257
Carbon tetrachloride	U		0.000286	0.00115	1	06/02/2022 21:54	WG1873257
Chlorobenzene	U		0.000221	0.00115	1	06/02/2022 21:54	WG1873257
Chlorodibromomethane	U		0.000258	0.00115	1	06/02/2022 21:54	WG1873257
Chloroethane	U		0.00115	0.00576	1	06/02/2022 21:54	WG1873257
Chloroform	U		0.00119	0.00576	1	06/02/2022 21:54	WG1873257
Chloromethane	U	C3	0.000748	0.00288	1	06/02/2022 21:54	WG1873257
2-Chlorotoluene	U		0.000259	0.00115	1	06/02/2022 21:54	WG1873257
4-Chlorotoluene	U		0.000796	0.00115	1	06/02/2022 21:54	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00219	0.00576	1	06/02/2022 21:54	WG1873257
1,2-Dibromoethane	U		0.000288	0.00115	1	06/02/2022 21:54	WG1873257
Dibromomethane	U	J4	0.000403	0.00115	1	06/02/2022 21:54	WG1873257
1,2-Dichlorobenzene	U		0.000489	0.00115	1	06/02/2022 21:54	WG1873257
1,3-Dichlorobenzene	U		0.000691	0.00115	1	06/02/2022 21:54	WG1873257
1,4-Dichlorobenzene	U		0.000956	0.00115	1	06/02/2022 21:54	WG1873257
Dichlorodifluoromethane	U	C3	0.000330	0.00576	1	06/02/2022 21:54	WG1873257
1,1-Dichloroethane	U		0.000309	0.00115	1	06/02/2022 21:54	WG1873257
1,2-Dichloroethane	U		0.000518	0.00115	1	06/02/2022 21:54	WG1873257
1,1-Dichloroethene	U		0.000409	0.00115	1	06/02/2022 21:54	WG1873257
cis-1,2-Dichloroethene	U		0.000547	0.00115	1	06/02/2022 21:54	WG1873257
trans-1,2-Dichloroethene	U		0.000576	0.00115	1	06/02/2022 21:54	WG1873257
1,2-Dichloropropane	U		0.000189	0.00115	1	06/02/2022 21:54	WG1873257
1,1-Dichloropropene	U		0.000432	0.00115	1	06/02/2022 21:54	WG1873257
1,3-Dichloropropane	U		0.000259	0.00115	1	06/02/2022 21:54	WG1873257
cis-1,3-Dichloropropene	U		0.000489	0.00115	1	06/02/2022 21:54	WG1873257
trans-1,3-Dichloropropene	U		0.000777	0.00115	1	06/02/2022 21:54	WG1873257
2,2-Dichloropropane	U		0.000432	0.00115	1	06/02/2022 21:54	WG1873257
Di-isopropyl ether	U		0.000254	0.00115	1	06/02/2022 21:54	WG1873257
Ethylbenzene	U		0.000345	0.00115	1	06/02/2022 21:54	WG1873257
Hexachloro-1,3-butadiene	U		0.000394	0.00115	1	06/02/2022 21:54	WG1873257
Isopropylbenzene	U		0.000489	0.00115	1	06/02/2022 21:54	WG1873257
p-Isopropyltoluene	U		0.000235	0.00115	1	06/02/2022 21:54	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	U		0.00539	0.0115	1	06/02/2022 21:54	WG1873257
Methylene Chloride	U		0.00115	0.00576	1	06/02/2022 21:54	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00109	0.0115	1	06/02/2022 21:54	WG1873257
Methyl tert-butyl ether	U		0.000403	0.00115	1	06/02/2022 21:54	WG1873257
Naphthalene	U		0.00573	0.00576	1	06/02/2022 21:54	WG1873257
n-Propylbenzene	U		0.000237	0.00115	1	06/02/2022 21:54	WG1873257
Styrene	U		0.000257	0.00115	1	06/02/2022 21:54	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000341	0.00115	1	06/02/2022 21:54	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000266	0.00115	1	06/02/2022 21:54	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000491	0.00115	1	06/02/2022 21:54	WG1873257
Tetrachloroethene	U		0.000374	0.00115	1	06/02/2022 21:54	WG1873257
Toluene	0.00173	JV3	0.00142	0.00576	1	06/02/2022 21:54	WG1873257
1,2,3-Trichlorobenzene	U		0.000352	0.00115	1	06/02/2022 21:54	WG1873257
1,2,4-Trichlorobenzene	U		0.000447	0.00115	1	06/02/2022 21:54	WG1873257
1,1,1-Trichloroethane	U		0.000426	0.00115	1	06/02/2022 21:54	WG1873257
1,1,2-Trichloroethane	U		0.000489	0.00115	1	06/02/2022 21:54	WG1873257
Trichloroethene	U		0.000230	0.00115	1	06/02/2022 21:54	WG1873257
Trichlorofluoromethane	U		0.000410	0.00576	1	06/02/2022 21:54	WG1873257
1,2,3-Trichloropropane	U	J4	0.000281	0.00288	1	06/02/2022 21:54	WG1873257
1,2,4-Trimethylbenzene	U		0.000243	0.00115	1	06/02/2022 21:54	WG1873257
1,2,3-Trimethylbenzene	U		0.000330	0.00115	1	06/02/2022 21:54	WG1873257
Vinyl chloride	U		0.000260	0.00115	1	06/02/2022 21:54	WG1873257
1,3,5-Trimethylbenzene	U		0.000306	0.00115	1	06/02/2022 21:54	WG1873257
Xylenes, Total	U		0.000576	0.00345	1	06/02/2022 21:54	WG1873257
(S) Toluene-d8	107			75.0-131		06/02/2022 21:54	WG1873257
(S) 4-Bromofluorobenzene	80.4			67.0-138		06/02/2022 21:54	WG1873257
(S) 1,2-Dichloroethane-d4	82.8			70.0-130		06/02/2022 21:54	WG1873257



Sample Narrative:

L1497358-18 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		99.7	230	1	06/05/2022 02:09	WG1873377
AK103 RRO C25-C36	275		76.7	230	1	06/05/2022 02:09	WG1873377
(S) o-Terphenyl	96.6			50.0-150		06/05/2022 02:09	WG1873377
(S) n-Triacontane d62	79.8			50.0-150		06/05/2022 02:09	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.0721		0.00265	0.00691	1	06/03/2022 16:12	WG1873424
Acenaphthene	0.0117		0.00241	0.00691	1	06/03/2022 16:12	WG1873424
Acenaphthylene	0.00366	J	0.00249	0.00691	1	06/03/2022 16:12	WG1873424
Benzo(a)anthracene	0.420		0.00199	0.00691	1	06/03/2022 16:12	WG1873424
Benzo(a)pyrene	0.438		0.00206	0.00691	1	06/03/2022 16:12	WG1873424
Benzo(b)fluoranthene	0.698		0.00176	0.00691	1	06/03/2022 16:12	WG1873424
Benzo(g,h,i)perylene	0.373		0.00204	0.00691	1	06/03/2022 16:12	WG1873424
Benzo(k)fluoranthene	0.248		0.00248	0.00691	1	06/03/2022 16:12	WG1873424
Chrysene	0.486		0.00267	0.00691	1	06/03/2022 16:12	WG1873424
Dibenz(a,h)anthracene	0.0683		0.00198	0.00691	1	06/03/2022 16:12	WG1873424
Fluoranthene	1.20		0.00261	0.00691	1	06/03/2022 16:12	WG1873424
Fluorene	0.0176		0.00236	0.00691	1	06/03/2022 16:12	WG1873424
Indeno(1,2,3-cd)pyrene	0.428		0.00208	0.00691	1	06/03/2022 16:12	WG1873424

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00470	0.0230	1	06/03/2022 16:12	WG1873424
Phenanthrene	0.468		0.00266	0.00691	1	06/03/2022 16:12	WG1873424
Pyrene	0.842		0.00230	0.00691	1	06/03/2022 16:12	WG1873424
1-Methylnaphthalene	U		0.00517	0.0230	1	06/03/2022 16:12	WG1873424
2-Methylnaphthalene	U		0.00492	0.0230	1	06/03/2022 16:12	WG1873424
2-Chloronaphthalene	U		0.00537	0.0230	1	06/03/2022 16:12	WG1873424
<i>(S)</i> Nitrobenzene-d5	82.6			14.0-149		06/03/2022 16:12	WG1873424
<i>(S)</i> 2-Fluorobiphenyl	74.4			34.0-125		06/03/2022 16:12	WG1873424
<i>(S)</i> p-Terphenyl-d14	83.7			23.0-120		06/03/2022 16:12	WG1873424

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	66.1		1	05/30/2022 06:37	WG1871350

Volatile Organic Compounds (GC) by Method AK101

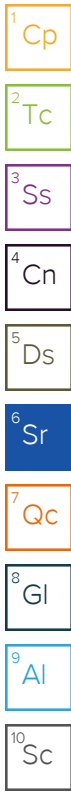
Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		31.3	82.5	21.8	06/01/2022 02:31	WG1871774
(S) a, a, a-Trifluorotoluene(FID)	79.2			50.0-150		06/01/2022 02:31	WG1871774

Sample Narrative:

L1497358-19 WG1871774: Lowest possible dilution due to sample foaming.

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	0.427	V3	0.0313	0.0757	1	06/02/2022 22:16	WG1873257
Acrylonitrile	U		0.00306	0.0151	1	06/02/2022 22:16	WG1873257
Benzene	U		0.000567	0.00151	1	06/02/2022 22:16	WG1873257
Bromobenzene	U		0.000416	0.00151	1	06/02/2022 22:16	WG1873257
Bromodichloromethane	U		0.00110	0.00151	1	06/02/2022 22:16	WG1873257
Bromoform	U		0.000642	0.00151	1	06/02/2022 22:16	WG1873257
Bromomethane	U		0.00177	0.00757	1	06/02/2022 22:16	WG1873257
n-Butylbenzene	U		0.000390	0.00151	1	06/02/2022 22:16	WG1873257
sec-Butylbenzene	U		0.000304	0.00151	1	06/02/2022 22:16	WG1873257
tert-Butylbenzene	U		0.000312	0.00151	1	06/02/2022 22:16	WG1873257
Carbon tetrachloride	U		0.000375	0.00151	1	06/02/2022 22:16	WG1873257
Chlorobenzene	U		0.000291	0.00151	1	06/02/2022 22:16	WG1873257
Chlorodibromomethane	U		0.000339	0.00151	1	06/02/2022 22:16	WG1873257
Chloroethane	U		0.00151	0.00757	1	06/02/2022 22:16	WG1873257
Chloroform	U		0.00156	0.00757	1	06/02/2022 22:16	WG1873257
Chloromethane	U	C3	0.000984	0.00378	1	06/02/2022 22:16	WG1873257
2-Chlorotoluene	U		0.000340	0.00151	1	06/02/2022 22:16	WG1873257
4-Chlorotoluene	U		0.00105	0.00151	1	06/02/2022 22:16	WG1873257
1,2-Dibromo-3-Chloropropane	U		0.00287	0.00757	1	06/02/2022 22:16	WG1873257
1,2-Dibromoethane	U		0.000378	0.00151	1	06/02/2022 22:16	WG1873257
Dibromomethane	U	J4	0.000530	0.00151	1	06/02/2022 22:16	WG1873257
1,2-Dichlorobenzene	U		0.000643	0.00151	1	06/02/2022 22:16	WG1873257
1,3-Dichlorobenzene	U		0.000908	0.00151	1	06/02/2022 22:16	WG1873257
1,4-Dichlorobenzene	U		0.00126	0.00151	1	06/02/2022 22:16	WG1873257
Dichlorodifluoromethane	U	C3	0.000434	0.00757	1	06/02/2022 22:16	WG1873257
1,1-Dichloroethane	U		0.000406	0.00151	1	06/02/2022 22:16	WG1873257
1,2-Dichloroethane	U		0.000681	0.00151	1	06/02/2022 22:16	WG1873257
1,1-Dichloroethene	U		0.000537	0.00151	1	06/02/2022 22:16	WG1873257
cis-1,2-Dichloroethene	U		0.000719	0.00151	1	06/02/2022 22:16	WG1873257
trans-1,2-Dichloroethene	U		0.000757	0.00151	1	06/02/2022 22:16	WG1873257
1,2-Dichloropropane	U		0.000248	0.00151	1	06/02/2022 22:16	WG1873257
1,1-Dichloropropene	U		0.000567	0.00151	1	06/02/2022 22:16	WG1873257
1,3-Dichloropropane	U		0.000340	0.00151	1	06/02/2022 22:16	WG1873257
cis-1,3-Dichloropropene	U		0.000643	0.00151	1	06/02/2022 22:16	WG1873257
trans-1,3-Dichloropropene	U		0.00102	0.00151	1	06/02/2022 22:16	WG1873257
2,2-Dichloropropane	U		0.000567	0.00151	1	06/02/2022 22:16	WG1873257
Di-isopropyl ether	U		0.000334	0.00151	1	06/02/2022 22:16	WG1873257
Ethylbenzene	U		0.000454	0.00151	1	06/02/2022 22:16	WG1873257
Hexachloro-1,3-butadiene	U		0.000517	0.00151	1	06/02/2022 22:16	WG1873257
Isopropylbenzene	U		0.000643	0.00151	1	06/02/2022 22:16	WG1873257
p-Isopropyltoluene	U		0.000309	0.00151	1	06/02/2022 22:16	WG1873257



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
2-Butanone (MEK)	0.0639	V3	0.00708	0.0151	1	06/02/2022 22:16	WG1873257
Methylene Chloride	U		0.00151	0.00757	1	06/02/2022 22:16	WG1873257
4-Methyl-2-pentanone (MIBK)	U		0.00144	0.0151	1	06/02/2022 22:16	WG1873257
Methyl tert-butyl ether	U		0.000530	0.00151	1	06/02/2022 22:16	WG1873257
Naphthalene	U		0.00754	0.00757	1	06/02/2022 22:16	WG1873257
n-Propylbenzene	U		0.000312	0.00151	1	06/02/2022 22:16	WG1873257
Styrene	U		0.000337	0.00151	1	06/02/2022 22:16	WG1873257
1,1,1,2-Tetrachloroethane	U		0.000448	0.00151	1	06/02/2022 22:16	WG1873257
1,1,2,2-Tetrachloroethane	U	J4	0.000350	0.00151	1	06/02/2022 22:16	WG1873257
1,1,2-Trichlorotrifluoroethane	U		0.000645	0.00151	1	06/02/2022 22:16	WG1873257
Tetrachloroethene	U		0.000492	0.00151	1	06/02/2022 22:16	WG1873257
Toluene	0.00221	JV3	0.00186	0.00757	1	06/02/2022 22:16	WG1873257
1,2,3-Trichlorobenzene	U		0.000463	0.00151	1	06/02/2022 22:16	WG1873257
1,2,4-Trichlorobenzene	U		0.000587	0.00151	1	06/02/2022 22:16	WG1873257
1,1,1-Trichloroethane	U		0.000560	0.00151	1	06/02/2022 22:16	WG1873257
1,1,2-Trichloroethane	U		0.000643	0.00151	1	06/02/2022 22:16	WG1873257
Trichloroethene	U		0.000303	0.00151	1	06/02/2022 22:16	WG1873257
Trichlorofluoromethane	U		0.000539	0.00757	1	06/02/2022 22:16	WG1873257
1,2,3-Trichloropropane	U	J4	0.000369	0.00378	1	06/02/2022 22:16	WG1873257
1,2,4-Trimethylbenzene	U		0.000319	0.00151	1	06/02/2022 22:16	WG1873257
1,2,3-Trimethylbenzene	U		0.000434	0.00151	1	06/02/2022 22:16	WG1873257
Vinyl chloride	U		0.000342	0.00151	1	06/02/2022 22:16	WG1873257
1,3,5-Trimethylbenzene	U		0.000402	0.00151	1	06/02/2022 22:16	WG1873257
Xylenes, Total	U		0.000757	0.00454	1	06/02/2022 22:16	WG1873257
(S) Toluene-d8	153	J1		75.0-131		06/02/2022 22:16	WG1873257
(S) 4-Bromofluorobenzene	55.0	J2		67.0-138		06/02/2022 22:16	WG1873257
(S) 1,2-Dichloroethane-d4	85.5			70.0-130		06/02/2022 22:16	WG1873257



Sample Narrative:

L1497358-19 WG1873257: Previous run also had low IS/SURR recovery. Matrix effect.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		131	303	1	06/04/2022 23:23	WG1873377
AK103 RRO C25-C36	655		101	303	1	06/04/2022 23:23	WG1873377
(S) o-Terphenyl	97.7			50.0-150		06/04/2022 23:23	WG1873377
(S) n-Triacontane d62	85.7			50.0-150		06/04/2022 23:23	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00348	0.00908	1	06/03/2022 15:43	WG1873425
Acenaphthene	U		0.00316	0.00908	1	06/03/2022 15:43	WG1873425
Acenaphthylene	U		0.00327	0.00908	1	06/03/2022 15:43	WG1873425
Benzo(a)anthracene	0.00764	J	0.00262	0.00908	1	06/03/2022 15:43	WG1873425
Benzo(a)pyrene	U		0.00271	0.00908	1	06/03/2022 15:43	WG1873425
Benzo(b)fluoranthene	0.00968		0.00232	0.00908	1	06/03/2022 15:43	WG1873425
Benzo(g,h,i)perylene	U		0.00268	0.00908	1	06/03/2022 15:43	WG1873425
Benzo(k)fluoranthene	U		0.00325	0.00908	1	06/03/2022 15:43	WG1873425
Chrysene	0.00757	J	0.00351	0.00908	1	06/03/2022 15:43	WG1873425
Dibenz(a,h)anthracene	U		0.00260	0.00908	1	06/03/2022 15:43	WG1873425
Fluoranthene	0.0201		0.00343	0.00908	1	06/03/2022 15:43	WG1873425
Fluorene	0.00522	J	0.00310	0.00908	1	06/03/2022 15:43	WG1873425
Indeno(1,2,3-cd)pyrene	0.00707	J	0.00274	0.00908	1	06/03/2022 15:43	WG1873425

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Naphthalene	U		0.00617	0.0303	1	06/03/2022 15:43	WG1873425
Phenanthrene	0.0154		0.00350	0.00908	1	06/03/2022 15:43	WG1873425
Pyrene	0.0151		0.00303	0.00908	1	06/03/2022 15:43	WG1873425
1-Methylnaphthalene	U		0.00679	0.0303	1	06/03/2022 15:43	WG1873425
2-Methylnaphthalene	U		0.00646	0.0303	1	06/03/2022 15:43	WG1873425
2-Chloronaphthalene	U		0.00705	0.0303	1	06/03/2022 15:43	WG1873425
<i>(S)</i> Nitrobenzene-d5	99.4			14.0-149		06/03/2022 15:43	WG1873425
<i>(S)</i> 2-Fluorobiphenyl	75.8			34.0-125		06/03/2022 15:43	WG1873425
<i>(S)</i> p-Terphenyl-d14	90.8			23.0-120		06/03/2022 15:43	WG1873425

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		4.75	12.5	5	05/31/2022 17:44	WG1871774
(S) a, a, a-Trifluorotoluene(FID)	90.7			50.0-150		05/31/2022 17:44	WG1871774

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0207	0.0500	1	06/01/2022 12:48	WG1872540
Acrylonitrile	U		0.00202	0.0100	1	06/01/2022 12:48	WG1872540
Benzene	U		0.000375	0.00100	1	06/01/2022 12:48	WG1872540
Bromobenzene	U		0.000275	0.00100	1	06/01/2022 12:48	WG1872540
Bromodichloromethane	U		0.000725	0.00100	1	06/01/2022 12:48	WG1872540
Bromoform	U		0.000424	0.00100	1	06/01/2022 12:48	WG1872540
Bromomethane	U		0.00117	0.00500	1	06/01/2022 12:48	WG1872540
n-Butylbenzene	U		0.000258	0.00100	1	06/01/2022 12:48	WG1872540
sec-Butylbenzene	U		0.000201	0.00100	1	06/01/2022 12:48	WG1872540
tert-Butylbenzene	U		0.000206	0.00100	1	06/01/2022 12:48	WG1872540
Carbon tetrachloride	U		0.000248	0.00100	1	06/01/2022 12:48	WG1872540
Chlorobenzene	U		0.000192	0.00100	1	06/01/2022 12:48	WG1872540
Chlorodibromomethane	U		0.000224	0.00100	1	06/01/2022 12:48	WG1872540
Chloroethane	U		0.00100	0.00500	1	06/01/2022 12:48	WG1872540
Chloroform	U		0.00103	0.00500	1	06/01/2022 12:48	WG1872540
Chloromethane	U	<u>C3</u>	0.000650	0.00250	1	06/01/2022 12:48	WG1872540
2-Chlorotoluene	U		0.000225	0.00100	1	06/01/2022 12:48	WG1872540
4-Chlorotoluene	U		0.000691	0.00100	1	06/01/2022 12:48	WG1872540
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500	1	06/01/2022 12:48	WG1872540
1,2-Dibromoethane	U		0.000250	0.00100	1	06/01/2022 12:48	WG1872540
Dibromomethane	U		0.000350	0.00100	1	06/01/2022 12:48	WG1872540
1,2-Dichlorobenzene	U		0.000425	0.00100	1	06/01/2022 12:48	WG1872540
1,3-Dichlorobenzene	U		0.000600	0.00100	1	06/01/2022 12:48	WG1872540
1,4-Dichlorobenzene	U		0.000830	0.00100	1	06/01/2022 12:48	WG1872540
Dichlorodifluoromethane	U	<u>C3</u>	0.000287	0.00500	1	06/01/2022 12:48	WG1872540
1,1-Dichloroethane	U		0.000268	0.00100	1	06/01/2022 12:48	WG1872540
1,2-Dichloroethane	U		0.000450	0.00100	1	06/01/2022 12:48	WG1872540
1,1-Dichloroethene	U		0.000355	0.00100	1	06/01/2022 12:48	WG1872540
cis-1,2-Dichloroethene	U		0.000475	0.00100	1	06/01/2022 12:48	WG1872540
trans-1,2-Dichloroethene	U	<u>C3</u>	0.000500	0.00100	1	06/01/2022 12:48	WG1872540
1,2-Dichloropropane	U		0.000164	0.00100	1	06/01/2022 12:48	WG1872540
1,1-Dichloropropene	U		0.000375	0.00100	1	06/01/2022 12:48	WG1872540
1,3-Dichloropropane	U		0.000225	0.00100	1	06/01/2022 12:48	WG1872540
cis-1,3-Dichloropropene	U		0.000425	0.00100	1	06/01/2022 12:48	WG1872540
trans-1,3-Dichloropropene	U		0.000675	0.00100	1	06/01/2022 12:48	WG1872540
2,2-Dichloropropane	U		0.000375	0.00100	1	06/01/2022 12:48	WG1872540
Di-isopropyl ether	U		0.000221	0.00100	1	06/01/2022 12:48	WG1872540
Ethylbenzene	U		0.000300	0.00100	1	06/01/2022 12:48	WG1872540
Hexachloro-1,3-butadiene	U	<u>C3</u>	0.000342	0.00100	1	06/01/2022 12:48	WG1872540
Isopropylbenzene	U		0.000425	0.00100	1	06/01/2022 12:48	WG1872540
p-Isopropyltoluene	U		0.000204	0.00100	1	06/01/2022 12:48	WG1872540
2-Butanone (MEK)	U		0.00468	0.0100	1	06/01/2022 12:48	WG1872540
Methylene Chloride	U		0.00100	0.00500	1	06/01/2022 12:48	WG1872540
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100	1	06/01/2022 12:48	WG1872540
Methyl tert-butyl ether	U		0.000350	0.00100	1	06/01/2022 12:48	WG1872540
Naphthalene	U		0.00498	0.00500	1	06/01/2022 12:48	WG1872540
n-Propylbenzene	U		0.000206	0.00100	1	06/01/2022 12:48	WG1872540
Styrene	U		0.000223	0.00100	1	06/01/2022 12:48	WG1872540
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100	1	06/01/2022 12:48	WG1872540

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

TRIP BLANK

SAMPLE RESULTS - 20

Collected date/time: 05/19/22 00:00

L1497358

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100	1	06/01/2022 12:48	WG1872540
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100	1	06/01/2022 12:48	WG1872540
Tetrachloroethene	U		0.000325	0.00100	1	06/01/2022 12:48	WG1872540
Toluene	U		0.00123	0.00500	1	06/01/2022 12:48	WG1872540
1,2,3-Trichlorobenzene	U		0.000306	0.00100	1	06/01/2022 12:48	WG1872540
1,2,4-Trichlorobenzene	U		0.000388	0.00100	1	06/01/2022 12:48	WG1872540
1,1,1-Trichloroethane	U		0.000370	0.00100	1	06/01/2022 12:48	WG1872540
1,1,2-Trichloroethane	U		0.000425	0.00100	1	06/01/2022 12:48	WG1872540
Trichloroethene	U		0.000200	0.00100	1	06/01/2022 12:48	WG1872540
Trichlorofluoromethane	U		0.000356	0.00500	1	06/01/2022 12:48	WG1872540
1,2,3-Trichloropropane	U		0.000244	0.00250	1	06/01/2022 12:48	WG1872540
1,2,4-Trimethylbenzene	U		0.000211	0.00100	1	06/01/2022 12:48	WG1872540
1,2,3-Trimethylbenzene	U		0.000287	0.00100	1	06/01/2022 12:48	WG1872540
Vinyl chloride	U	C3	0.000226	0.00100	1	06/01/2022 12:48	WG1872540
1,3,5-Trimethylbenzene	U		0.000266	0.00100	1	06/01/2022 12:48	WG1872540
Xylenes, Total	U		0.000500	0.00300	1	06/01/2022 12:48	WG1872540
(S) Toluene-d8	101			75.0-131		06/01/2022 12:48	WG1872540
(S) 4-Bromofluorobenzene	99.7			67.0-138		06/01/2022 12:48	WG1872540
(S) 1,2-Dichloroethane-d4	93.1			70.0-130		06/01/2022 12:48	WG1872540

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3797547-1 05/30/22 06:47

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

L1497358-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1497358-02 05/30/22 06:47 • (DUP) R3797547-3 05/30/22 06:47

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	75.5	77.9	1	3.01		10

⁴Cn

⁵Ds

Laboratory Control Sample (LCS)

(LCS) R3797547-2 05/30/22 06:47

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3797546-1 05/30/22 06:37

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

1 Cp

2 Tc

3 Ss

L1497358-12 Original Sample (OS) • Duplicate (DUP)

(OS) L1497358-12 05/30/22 06:37 • (DUP) R3797546-3 05/30/22 06:37

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	42.2	42.8	1	1.47		10

4 Cn

5 Ds

Laboratory Control Sample (LCS)

(LCS) R3797546-2 05/30/22 06:37

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3798235-2 05/31/22 16:52

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHGAK C6 to C10	U		0.950	2.50
(S) a,a,a-Trifluorotoluene(FID)	95.1			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3798235-1 05/31/22 15:47 • (LCSD) R3798235-3 06/01/22 03:49

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	125	129	110	103	88.0	60.0-120			15.9	20
(S) a,a,a-Trifluorotoluene(FID)				104	102	60.0-120				

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798278-2 06/01/22 12:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798278-2 06/01/22 12:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,2,3-Trimethylbenzene	U		0.000287	0.00100
Vinyl chloride	U		0.000226	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	99.4			75.0-131
(S) 4-Bromofluorobenzene	99.7			67.0-138
(S) 1,2-Dichloroethane-d4	98.0			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3798278-1 06/01/22 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.123	98.4	10.0-160	
Acrylonitrile	0.125	0.120	96.0	45.0-153	
Benzene	0.0250	0.0219	87.6	70.0-123	
Bromobenzene	0.0250	0.0228	91.2	73.0-121	
Bromodichloromethane	0.0250	0.0234	93.6	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3798278-1 06/01/22 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.0250	0.0262	105	64.0-132	
Bromomethane	0.0250	0.0215	86.0	56.0-147	
n-Butylbenzene	0.0250	0.0225	90.0	68.0-135	
sec-Butylbenzene	0.0250	0.0225	90.0	74.0-130	
tert-Butylbenzene	0.0250	0.0224	89.6	75.0-127	
Carbon tetrachloride	0.0250	0.0221	88.4	66.0-128	
Chlorobenzene	0.0250	0.0226	90.4	76.0-128	
Chlorodibromomethane	0.0250	0.0251	100	74.0-127	
Chloroethane	0.0250	0.0209	83.6	61.0-134	
Chloroform	0.0250	0.0224	89.6	72.0-123	
Chloromethane	0.0250	0.0192	76.8	51.0-138	
2-Chlorotoluene	0.0250	0.0231	92.4	75.0-124	
4-Chlorotoluene	0.0250	0.0232	92.8	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0265	106	59.0-130	
1,2-Dibromoethane	0.0250	0.0252	101	74.0-128	
Dibromomethane	0.0250	0.0237	94.8	75.0-122	
1,2-Dichlorobenzene	0.0250	0.0228	91.2	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0233	93.2	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0220	88.0	77.0-121	
Dichlorodifluoromethane	0.0250	0.0191	76.4	43.0-156	
1,1-Dichloroethane	0.0250	0.0222	88.8	70.0-127	
1,2-Dichloroethane	0.0250	0.0225	90.0	65.0-131	
1,1-Dichloroethene	0.0250	0.0207	82.8	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0223	89.2	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0209	83.6	71.0-125	
1,2-Dichloropropane	0.0250	0.0239	95.6	74.0-125	
1,1-Dichloropropene	0.0250	0.0212	84.8	73.0-125	
1,3-Dichloropropane	0.0250	0.0234	93.6	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0240	96.0	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0245	98.0	73.0-127	
2,2-Dichloropropane	0.0250	0.0227	90.8	59.0-135	
Di-isopropyl ether	0.0250	0.0228	91.2	60.0-136	
Ethylbenzene	0.0250	0.0221	88.4	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0189	75.6	57.0-150	
Isopropylbenzene	0.0250	0.0220	88.0	72.0-127	
p-Isopropyltoluene	0.0250	0.0223	89.2	72.0-133	
2-Butanone (MEK)	0.125	0.120	96.0	30.0-160	
Methylene Chloride	0.0250	0.0205	82.0	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.139	111	56.0-143	
Methyl tert-butyl ether	0.0250	0.0234	93.6	66.0-132	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS)

(LCS) R3798278-1 06/01/22 10:35

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.0250	0.0206	82.4	59.0-130	
n-Propylbenzene	0.0250	0.0227	90.8	74.0-126	
Styrene	0.0250	0.0234	93.6	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0234	93.6	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0252	101	68.0-128	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0213	85.2	61.0-139	
Tetrachloroethene	0.0250	0.0214	85.6	70.0-136	
Toluene	0.0250	0.0210	84.0	75.0-121	
1,2,3-Trichlorobenzene	0.0250	0.0181	72.4	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0213	85.2	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0225	90.0	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0239	95.6	78.0-123	
Trichloroethene	0.0250	0.0222	88.8	76.0-126	
Trichlorofluoromethane	0.0250	0.0216	86.4	61.0-142	
1,2,3-Trichloropropane	0.0250	0.0245	98.0	67.0-129	
1,2,4-Trimethylbenzene	0.0250	0.0229	91.6	70.0-126	
1,2,3-Trimethylbenzene	0.0250	0.0224	89.6	74.0-124	
Vinyl chloride	0.0250	0.0195	78.0	63.0-134	
1,3,5-Trimethylbenzene	0.0250	0.0223	89.2	73.0-127	
Xylenes, Total	0.0750	0.0667	88.9	72.0-127	
<i>(S) Toluene-d8</i>			97.3	75.0-131	
<i>(S) 4-Bromofluorobenzene</i>			98.3	67.0-138	
<i>(S) 1,2-Dichloroethane-d4</i>			106	70.0-130	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3798924-3 06/02/22 13:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798924-3 06/02/22 13:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,2,3-Trimethylbenzene	U		0.000287	0.00100
Vinyl chloride	U		0.000226	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	94.5			75.0-131
(S) 4-Bromofluorobenzene	99.7			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3798924-4 06/02/22 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.175	140	10.0-160	
Acrylonitrile	0.125	0.176	141	45.0-153	
Benzene	0.0250	0.0245	98.0	70.0-123	
Bromobenzene	0.0250	0.0258	103	73.0-121	
Bromodichloromethane	0.0250	0.0286	114	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3798924-4 06/02/22 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.0250	0.0304	122	64.0-132	
Bromomethane	0.0250	0.0241	96.4	56.0-147	
n-Butylbenzene	0.0250	0.0232	92.8	68.0-135	
sec-Butylbenzene	0.0250	0.0220	88.0	74.0-130	
tert-Butylbenzene	0.0250	0.0221	88.4	75.0-127	
Carbon tetrachloride	0.0250	0.0235	94.0	66.0-128	
Chlorobenzene	0.0250	0.0254	102	76.0-128	
Chlorodibromomethane	0.0250	0.0278	111	74.0-127	
Chloroethane	0.0250	0.0234	93.6	61.0-134	
Chloroform	0.0250	0.0259	104	72.0-123	
Chloromethane	0.0250	0.0207	82.8	51.0-138	
2-Chlorotoluene	0.0250	0.0237	94.8	75.0-124	
4-Chlorotoluene	0.0250	0.0246	98.4	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0319	128	59.0-130	
1,2-Dibromoethane	0.0250	0.0320	128	74.0-128	
Dibromomethane	0.0250	0.0323	129	75.0-122	J4
1,2-Dichlorobenzene	0.0250	0.0272	109	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0259	104	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0265	106	77.0-121	
Dichlorodifluoromethane	0.0250	0.0207	82.8	43.0-156	
1,1-Dichloroethane	0.0250	0.0241	96.4	70.0-127	
1,2-Dichloroethane	0.0250	0.0297	119	65.0-131	
1,1-Dichloroethene	0.0250	0.0220	88.0	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0258	103	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0235	94.0	71.0-125	
1,2-Dichloropropane	0.0250	0.0272	109	74.0-125	
1,1-Dichloropropene	0.0250	0.0230	92.0	73.0-125	
1,3-Dichloropropane	0.0250	0.0300	120	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0298	119	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0305	122	73.0-127	
2,2-Dichloropropane	0.0250	0.0236	94.4	59.0-135	
Di-isopropyl ether	0.0250	0.0263	105	60.0-136	
Ethylbenzene	0.0250	0.0237	94.8	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0217	86.8	57.0-150	
Isopropylbenzene	0.0250	0.0230	92.0	72.0-127	
p-Isopropyltoluene	0.0250	0.0232	92.8	72.0-133	
2-Butanone (MEK)	0.125	0.177	142	30.0-160	
Methylene Chloride	0.0250	0.0264	106	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.171	137	56.0-143	
Methyl tert-butyl ether	0.0250	0.0319	128	66.0-132	

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS)

(LCS) R3798924-4 06/02/22 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.0250	0.0302	121	59.0-130	
n-Propylbenzene	0.0250	0.0228	91.2	74.0-126	
Styrene	0.0250	0.0265	106	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0260	104	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0325	130	68.0-128	J4
1,1,2-Trichlorotrifluoroethane	0.0250	0.0221	88.4	61.0-139	
Tetrachloroethene	0.0250	0.0222	88.8	70.0-136	
Toluene	0.0250	0.0229	91.6	75.0-121	
1,2,3-Trichlorobenzene	0.0250	0.0290	116	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0296	118	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0235	94.0	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0296	118	78.0-123	
Trichloroethene	0.0250	0.0241	96.4	76.0-126	
Trichlorofluoromethane	0.0250	0.0223	89.2	61.0-142	
1,2,3-Trichloropropane	0.0250	0.0332	133	67.0-129	J4
1,2,4-Trimethylbenzene	0.0250	0.0242	96.8	70.0-126	
1,2,3-Trimethylbenzene	0.0250	0.0230	92.0	74.0-124	
Vinyl chloride	0.0250	0.0222	88.8	63.0-134	
1,3,5-Trimethylbenzene	0.0250	0.0232	92.8	73.0-127	
Xylenes, Total	0.0750	0.0712	94.9	72.0-127	
(S) Toluene-d8			93.1	75.0-131	
(S) 4-Bromofluorobenzene			99.8	67.0-138	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3798925-3 06/02/22 13:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798925-3 06/02/22 13:56

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,2,3-Trimethylbenzene	U		0.000287	0.00100
Vinyl chloride	U		0.000226	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	94.5			75.0-131
(S) 4-Bromofluorobenzene	99.7			67.0-138
(S) 1,2-Dichloroethane-d4	103			70.0-130

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS)

(LCS) R3798925-4 06/02/22 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.175	140	10.0-160	
Acrylonitrile	0.125	0.176	141	45.0-153	
Benzene	0.0250	0.0245	98.0	70.0-123	
Bromobenzene	0.0250	0.0258	103	73.0-121	
Bromodichloromethane	0.0250	0.0286	114	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3798925-4 06/02/22 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Bromoform	0.0250	0.0304	122	64.0-132	
Bromomethane	0.0250	0.0241	96.4	56.0-147	
n-Butylbenzene	0.0250	0.0232	92.8	68.0-135	
sec-Butylbenzene	0.0250	0.0220	88.0	74.0-130	
tert-Butylbenzene	0.0250	0.0221	88.4	75.0-127	
Carbon tetrachloride	0.0250	0.0235	94.0	66.0-128	
Chlorobenzene	0.0250	0.0254	102	76.0-128	
Chlorodibromomethane	0.0250	0.0278	111	74.0-127	
Chloroethane	0.0250	0.0234	93.6	61.0-134	
Chloroform	0.0250	0.0259	104	72.0-123	
Chloromethane	0.0250	0.0207	82.8	51.0-138	
2-Chlorotoluene	0.0250	0.0237	94.8	75.0-124	
4-Chlorotoluene	0.0250	0.0246	98.4	75.0-124	
1,2-Dibromo-3-Chloropropane	0.0250	0.0319	128	59.0-130	
1,2-Dibromoethane	0.0250	0.0320	128	74.0-128	
Dibromomethane	0.0250	0.0323	129	75.0-122	J4
1,2-Dichlorobenzene	0.0250	0.0272	109	76.0-124	
1,3-Dichlorobenzene	0.0250	0.0259	104	76.0-125	
1,4-Dichlorobenzene	0.0250	0.0265	106	77.0-121	
Dichlorodifluoromethane	0.0250	0.0207	82.8	43.0-156	
1,1-Dichloroethane	0.0250	0.0241	96.4	70.0-127	
1,2-Dichloroethane	0.0250	0.0297	119	65.0-131	
1,1-Dichloroethene	0.0250	0.0220	88.0	65.0-131	
cis-1,2-Dichloroethene	0.0250	0.0258	103	73.0-125	
trans-1,2-Dichloroethene	0.0250	0.0235	94.0	71.0-125	
1,2-Dichloropropane	0.0250	0.0272	109	74.0-125	
1,1-Dichloropropene	0.0250	0.0230	92.0	73.0-125	
1,3-Dichloropropane	0.0250	0.0300	120	80.0-125	
cis-1,3-Dichloropropene	0.0250	0.0298	119	76.0-127	
trans-1,3-Dichloropropene	0.0250	0.0305	122	73.0-127	
2,2-Dichloropropane	0.0250	0.0236	94.4	59.0-135	
Di-isopropyl ether	0.0250	0.0263	105	60.0-136	
Ethylbenzene	0.0250	0.0237	94.8	74.0-126	
Hexachloro-1,3-butadiene	0.0250	0.0217	86.8	57.0-150	
Isopropylbenzene	0.0250	0.0230	92.0	72.0-127	
p-Isopropyltoluene	0.0250	0.0232	92.8	72.0-133	
2-Butanone (MEK)	0.125	0.177	142	30.0-160	
Methylene Chloride	0.0250	0.0264	106	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.125	0.171	137	56.0-143	
Methyl tert-butyl ether	0.0250	0.0319	128	66.0-132	

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS)

(LCS) R3798925-4 06/02/22 14:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Naphthalene	0.0250	0.0302	121	59.0-130	
n-Propylbenzene	0.0250	0.0228	91.2	74.0-126	
Styrene	0.0250	0.0265	106	72.0-127	
1,1,1,2-Tetrachloroethane	0.0250	0.0260	104	74.0-129	
1,1,2,2-Tetrachloroethane	0.0250	0.0325	130	68.0-128	J4
1,1,2-Trichlorotrifluoroethane	0.0250	0.0221	88.4	61.0-139	
Tetrachloroethene	0.0250	0.0222	88.8	70.0-136	
Toluene	0.0250	0.0229	91.6	75.0-121	
1,2,3-Trichlorobenzene	0.0250	0.0290	116	59.0-139	
1,2,4-Trichlorobenzene	0.0250	0.0296	118	62.0-137	
1,1,1-Trichloroethane	0.0250	0.0235	94.0	69.0-126	
1,1,2-Trichloroethane	0.0250	0.0296	118	78.0-123	
Trichloroethene	0.0250	0.0241	96.4	76.0-126	
Trichlorofluoromethane	0.0250	0.0223	89.2	61.0-142	
1,2,3-Trichloropropane	0.0250	0.0332	133	67.0-129	J4
1,2,4-Trimethylbenzene	0.0250	0.0242	96.8	70.0-126	
1,2,3-Trimethylbenzene	0.0250	0.0230	92.0	74.0-124	
Vinyl chloride	0.0250	0.0222	88.8	63.0-134	
1,3,5-Trimethylbenzene	0.0250	0.0232	92.8	73.0-127	
Xylenes, Total	0.0750	0.0712	94.9	72.0-127	
(S) Toluene-d8			93.1	75.0-131	
(S) 4-Bromofluorobenzene			99.8	67.0-138	
(S) 1,2-Dichloroethane-d4			103	70.0-130	

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3798071-1 05/31/22 22:49

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	91.4			60.0-120
(S) n-Triacontane d62	89.5			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3798071-2 05/31/22 23:02 • (LCSD) R3798071-3 05/31/22 23:15

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	201	195	101	97.5	75.0-125			3.03	20
(S) o-Terphenyl				90.6	84.3	60.0-120				
(S) n-Triacontane d62				90.1	84.7	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3798071-4 05/31/22 23:27 • (LCSD) R3798071-5 05/31/22 23:40

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	177	174	88.5	87.0	60.0-120			1.71	20
(S) o-Terphenyl				90.6	89.5	60.0-120				
(S) n-Triacontane d62				85.8	90.1	60.0-120				

L1496465-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496465-10 06/01/22 03:42 • (MS) R3798071-6 06/01/22 03:54 • (MSD) R3798071-7 06/01/22 04:07

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	502	4190	2930	2780	0.000	0.000	1	75.0-125	V	V	5.26	20
(S) o-Terphenyl					53.6	61.8		50.0-150				

Sample Narrative:

OS: Surrogate failure due to matrix interference



L1496465-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1496465-10 06/01/22 11:45 • (MS) R3798130-1 06/01/22 15:10 • (MSD) R3798130-2 06/01/22 15:23

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	502	23000	2710	2420	0.000	0.000	10	60.0-120	<u>V</u>	<u>V</u>	11.2	20
<i>(S) o-Terphenyl</i>					74.2	68.5		50.0-150				
<i>(S) n-Triacontane d62</i>					37.8	28.2		50.0-150	<u>J2</u>	<u>J2</u>		

Sample Narrative:

OS: Surrogate failure due to matrix interference

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3799259-1 06/02/22 22:05

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	92.9			60.0-120
(S) n-Triacontane d62	91.2			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799259-2 06/02/22 22:18 • (LCSD) R3799259-3 06/02/22 22:30

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	202	200	101	100	75.0-125			0.995	20
(S) o-Terphenyl				92.9	95.1	60.0-120				
(S) n-Triacontane d62				91.5	91.3	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799259-4 06/02/22 22:43 • (LCSD) R3799259-5 06/02/22 22:56

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	166	161	83.0	80.5	60.0-120			3.06	20
(S) o-Terphenyl				96.6	94.0	60.0-120				
(S) n-Triacontane d62				93.6	90.3	60.0-120				

L1497710-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-61 06/03/22 06:35 • (MS) R3799259-6 06/03/22 06:47 • (MSD) R3799259-7 06/03/22 07:00

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	240	U	235	218	98.0	91.0	1	75.0-125			7.41	20
(S) o-Terphenyl					80.9	77.2		50.0-150				
(S) n-Triacontane d62					86.7	80.7		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1497710-61 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-61 06/03/22 06:35 • (MS) R3799259-8 06/03/22 07:13 • (MSD) R3799259-9 06/03/22 07:25

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	240	U	168	194	70.0	81.0	1	60.0-120			14.6	20
(S) o-Terphenyl					79.0	80.1		50.0-150				
(S) n-Triacontane d62					76.9	81.0		50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3799260-1 06/02/22 21:01

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
<i>(S) o-Terphenyl</i>	101			60.0-120
<i>(S) n-Triacontane d62</i>	91.0			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799260-2 06/02/22 21:14 • (LCSD) R3799260-3 06/02/22 21:26

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	203	201	102	101	75.0-125			0.990	20
<i>(S) o-Terphenyl</i>				95.9	96.3	60.0-120				
<i>(S) n-Triacontane d62</i>				91.3	91.9	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799260-4 06/02/22 21:39 • (LCSD) R3799260-5 06/02/22 21:52

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	162	163	81.0	81.5	60.0-120			0.615	20
<i>(S) o-Terphenyl</i>				86.1	97.4	60.0-120				
<i>(S) n-Triacontane d62</i>				88.2	90.3	60.0-120				

L1497710-65 Original Sample (OS) • Matrix Spike (MS)

(OS) L1497710-65 06/03/22 02:32 • (MS) R3799260-6 06/03/22 02:45

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MS Rec.	Dilution	Rec. Limits	MS Qualifier
	mg/kg	mg/kg	mg/kg	%		%	
AK103 RRO C25-C36	220	75.2	230	70.3	1	60.0-120	
<i>(S) o-Terphenyl</i>				95.5		50.0-150	
<i>(S) n-Triacontane d62</i>				89.1		50.0-150	

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1497710-65 Original Sample (OS) • Matrix Spike (MS)

(OS) L1497710-65 06/03/22 02:32 • (MS) R3799260-7 06/03/22 02:58

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MS Rec. %	Dilution	Rec. Limits %	MS Qualifier
AK103 RRO C25-C36	220	75.2	235	72.8	1	60.0-120	
(S) o-Terphenyl				96.6		50.0-150	
(S) n-Triacontane d62				93.4		50.0-150	

L1497710-65 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-65 06/03/22 02:32 • (MS) R3799260-8 06/03/22 03:11 • (MSD) R3799260-9 06/03/22 03:24

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	220	U	242	242	110	110	1	75.0-125			0.000	20
(S) o-Terphenyl					98.1	97.8		50.0-150				
(S) n-Triacontane d62					93.9	93.0		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799456-1 06/03/22 21:31

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	99.3			60.0-120
(S) n-Triacontane d62	96.0			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799456-2 06/03/22 21:44 • (LCSD) R3799456-3 06/03/22 21:57

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	192	205	96.0	103	75.0-125			6.55	20
(S) o-Terphenyl				90.3	95.1	60.0-120				
(S) n-Triacontane d62				91.3	95.8	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799456-4 06/03/22 22:09 • (LCSD) R3799456-5 06/03/22 22:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	154	148	77.0	74.0	60.0-120			3.97	20
(S) o-Terphenyl				96.6	96.6	60.0-120				
(S) n-Triacontane d62				98.8	98.5	60.0-120				

L1497710-90 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-90 06/04/22 15:19 • (MS) R3799594-1 06/04/22 15:32 • (MSD) R3799594-2 06/04/22 15:44

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	302	U	300	296	99.5	98.0	1	75.0-125			1.52	20
(S) o-Terphenyl					89.9	91.0		50.0-150				
(S) n-Triacontane d62					88.3	90.3		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1497710-90 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-90 06/04/22 15:19 • (MS) R3799594-3 06/04/22 15:57 • (MSD) R3799594-4 06/04/22 16:10

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	302	U	222	208	73.5	69.0	1	60.0-120			6.32	20
(S) o-Terphenyl					91.4	86.1		50.0-150				
(S) n-Triacontane d62					88.9	83.2		50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3799595-1 06/04/22 09:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	86.1			60.0-120
(S) n-Triacontane d62	84.1			60.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799595-2 06/04/22 10:00 • (LCSD) R3799595-3 06/04/22 10:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	200	185	165	92.5	82.5	75.0-125			11.4	20
(S) o-Terphenyl				92.5	81.6	60.0-120				

5 Ds

6 Sr

7 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799595-4 06/04/22 10:25 • (LCSD) R3799595-5 06/04/22 10:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	200	124	142	62.0	71.0	60.0-120			13.5	20
(S) n-Triacontane d62				84.1	95.8	60.0-120				

8 Gl

9 Al

10 Sc

L1498453-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498453-03 06/04/22 21:42 • (MS) R3799595-6 06/04/22 21:55 • (MSD) R3799595-7 06/04/22 22:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	226	81.0	285	296	90.2	95.2	1	60.0-120			3.89	20
(S) n-Triacontane d62					82.8	84.0		50.0-150				

L1497710-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-20 06/05/22 01:31 • (MS) R3799595-8 06/05/22 01:43 • (MSD) R3799595-9 06/05/22 01:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	349	U	446	432	128	124	1	75.0-125	J5		3.17	20
(S) o-Terphenyl					88.4	73.0		50.0-150				

Method Blank (MB)

(MB) R3798711-2 06/02/22 12:03

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	95.1			14.0-149
(S) 2-Fluorobiphenyl	80.3			34.0-125
(S) p-Terphenyl-d14	95.2			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3798711-1 06/02/22 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0697	87.1	50.0-126	
Acenaphthene	0.0800	0.0649	81.1	50.0-120	
Acenaphthylene	0.0800	0.0716	89.5	50.0-120	
Benzo(a)anthracene	0.0800	0.0722	90.3	45.0-120	
Benzo(a)pyrene	0.0800	0.0600	75.0	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0626	78.3	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0621	77.6	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0638	79.8	49.0-125	
Chrysene	0.0800	0.0675	84.4	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0668	83.5	47.0-125	
Fluoranthene	0.0800	0.0704	88.0	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3798711-1 06/02/22 11:43

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0688	86.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0697	87.1	46.0-125	
Naphthalene	0.0800	0.0679	84.9	50.0-120	
Phenanthrene	0.0800	0.0656	82.0	47.0-120	
Pyrene	0.0800	0.0632	79.0	43.0-123	
1-Methylnaphthalene	0.0800	0.0678	84.8	51.0-121	
2-Methylnaphthalene	0.0800	0.0641	80.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0609	76.1	50.0-120	
(S) Nitrobenzene-d5			99.2	14.0-149	
(S) 2-Fluorobiphenyl			81.4	34.0-125	
(S) p-Terphenyl-d14			94.6	23.0-120	

L1497710-25 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-25 06/02/22 13:22 • (MS) R3798711-3 06/02/22 13:42 • (MSD) R3798711-4 06/02/22 14:02

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.128	U	0.107	0.108	83.5	84.0	1	10.0-145			0.597	30
Acenaphthene	0.128	U	0.101	0.100	78.9	78.3	1	14.0-127			0.796	27
Acenaphthylene	0.128	U	0.112	0.112	87.1	87.0	1	21.0-124			0.144	25
Benzo(a)anthracene	0.128	U	0.111	0.110	86.1	85.5	1	10.0-139			0.728	30
Benzo(a)pyrene	0.128	U	0.0998	0.0964	77.8	75.1	1	10.0-141			3.43	31
Benzo(b)fluoranthene	0.128	U	0.0987	0.0953	76.9	74.3	1	10.0-140			3.47	36
Benzo(g,h,i)perylene	0.128	U	0.0968	0.0924	75.4	72.0	1	10.0-140			4.58	33
Benzo(k)fluoranthene	0.128	U	0.101	0.0968	78.6	75.4	1	10.0-137			4.22	31
Chrysene	0.128	U	0.102	0.101	79.5	79.0	1	10.0-145			0.631	30
Dibenz(a,h)anthracene	0.128	U	0.105	0.101	82.1	78.8	1	10.0-132			4.20	31
Fluoranthene	0.128	U	0.111	0.108	86.1	84.5	1	10.0-153			1.90	33
Fluorene	0.128	U	0.111	0.109	86.6	85.0	1	11.0-130			1.89	29
Indeno(1,2,3-cd)pyrene	0.128	U	0.108	0.103	84.3	80.1	1	10.0-137			5.02	32
Naphthalene	0.128	U	0.107	0.107	83.0	83.4	1	10.0-135			0.451	27
Phenanthrene	0.128	U	0.103	0.100	80.4	78.3	1	10.0-144			2.68	31
Pyrene	0.128	U	0.0944	0.0936	73.5	72.9	1	10.0-148			0.854	35
1-Methylnaphthalene	0.128	U	0.107	0.108	83.6	84.3	1	10.0-142			0.745	28
2-Methylnaphthalene	0.128	U	0.101	0.101	79.0	78.8	1	10.0-137			0.317	28
2-Chloronaphthalene	0.128	U	0.0923	0.0921	71.9	71.8	1	29.0-120			0.174	24
(S) Nitrobenzene-d5					92.7	93.0		14.0-149				
(S) 2-Fluorobiphenyl					75.4	74.7		34.0-125				
(S) p-Terphenyl-d14					88.5	88.6		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799084-4 06/03/22 09:00

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	79.5			14.0-149
(S) 2-Fluorobiphenyl	77.1			34.0-125
(S) p-Terphenyl-d14	88.2			23.0-120

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS)

(LCS) R3799084-1 06/02/22 23:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0569	71.1	50.0-126	
Acenaphthene	0.0800	0.0567	70.9	50.0-120	
Acenaphthylene	0.0800	0.0594	74.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0569	71.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0500	62.5	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0552	69.0	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0548	68.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0563	70.4	49.0-125	
Chrysene	0.0800	0.0571	71.4	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0562	70.3	47.0-125	
Fluoranthene	0.0800	0.0567	70.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3799084-1 06/02/22 23:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0598	74.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0553	69.1	46.0-125	
Naphthalene	0.0800	0.0567	70.9	50.0-120	
Phenanthrene	0.0800	0.0566	70.8	47.0-120	
Pyrene	0.0800	0.0546	68.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0584	73.0	51.0-121	
2-Methylnaphthalene	0.0800	0.0568	71.0	50.0-120	
2-Chloronaphthalene	0.0800	0.0574	71.8	50.0-120	
<i>(S) Nitrobenzene-d5</i>			74.0	14.0-149	
<i>(S) 2-Fluorobiphenyl</i>			75.3	34.0-125	
<i>(S) p-Terphenyl-d14</i>			85.7	23.0-120	

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3799902-2 06/03/22 12:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	74.9			14.0-149
(S) 2-Fluorobiphenyl	78.2			34.0-125
(S) p-Terphenyl-d14	97.8			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3799902-1 06/03/22 12:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0561	70.1	50.0-126	
Acenaphthene	0.0800	0.0581	72.6	50.0-120	
Acenaphthylene	0.0800	0.0593	74.1	50.0-120	
Benzo(a)anthracene	0.0800	0.0565	70.6	45.0-120	
Benzo(a)pyrene	0.0800	0.0518	64.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0617	77.1	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0579	72.4	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0620	77.5	49.0-125	
Chrysene	0.0800	0.0585	73.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0567	70.9	47.0-125	
Fluoranthene	0.0800	0.0541	67.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3799902-1 06/03/22 12:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0582	72.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0558	69.8	46.0-125	
Naphthalene	0.0800	0.0560	70.0	50.0-120	
Phenanthrene	0.0800	0.0580	72.5	47.0-120	
Pyrene	0.0800	0.0618	77.3	43.0-123	
1-Methylnaphthalene	0.0800	0.0561	70.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0537	67.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0602	75.3	50.0-120	
(S) Nitrobenzene-d5			82.7	14.0-149	
(S) 2-Fluorobiphenyl			79.9	34.0-125	
(S) p-Terphenyl-d14			94.2	23.0-120	

L1497710-102 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-102 06/03/22 14:56 • (MS) R3799902-3 06/03/22 15:13 • (MSD) R3799902-4 06/03/22 15:30

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.168	0.0532	0.104	0.104	30.4	29.8	1	10.0-145			0.211	30
Acenaphthene	0.168	0.0186	0.105	0.103	51.4	49.4	1	14.0-127			1.90	27
Acenaphthylene	0.168	U	0.110	0.104	65.6	61.0	1	21.0-124			5.75	25
Benzo(a)anthracene	0.168	0.110	0.113	0.122	1.83	6.96	1	10.0-139	J6	J6	7.48	30
Benzo(a)pyrene	0.168	0.0686	0.113	0.121	26.2	30.5	1	10.0-141			6.97	31
Benzo(b)fluoranthene	0.168	0.0954	0.114	0.127	10.9	18.4	1	10.0-140			11.0	36
Benzo(g,h,i)perylene	0.168	0.0308	0.102	0.105	42.4	43.8	1	10.0-140			3.39	33
Benzo(k)fluoranthene	0.168	0.0369	0.111	0.108	44.0	41.5	1	10.0-137			2.82	31
Chrysene	0.168	0.103	0.122	0.128	11.4	14.6	1	10.0-145			4.57	30
Dibenz(a,h)anthracene	0.168	0.00938	0.101	0.0943	54.4	49.8	1	10.0-132			6.54	31
Fluoranthene	0.168	0.233	0.117	0.136	0.000	0.000	1	10.0-153	J6	J6	15.0	33
Fluorene	0.168	0.0220	0.105	0.104	49.2	48.2	1	11.0-130			0.421	29
Indeno(1,2,3-cd)pyrene	0.168	0.0345	0.102	0.105	40.2	41.5	1	10.0-137			3.18	32
Naphthalene	0.168	U	0.111	0.0978	65.8	57.3	1	10.0-135			12.2	27
Phenanthrene	0.168	0.244	0.112	0.121	0.000	0.000	1	10.0-144	J6	J6	7.55	31
Pyrene	0.168	0.257	0.130	0.153	0.000	0.000	1	10.0-148	J6	J6	16.3	35
1-Methylnaphthalene	0.168	U	0.104	0.0954	61.8	55.9	1	10.0-142			8.39	28
2-Methylnaphthalene	0.168	U	0.100	0.0943	59.6	55.3	1	10.0-137			5.88	28
2-Chloronaphthalene	0.168	U	0.113	0.105	67.1	61.6	1	29.0-120			7.06	24
(S) Nitrobenzene-d5					79.8	62.5		14.0-149				
(S) 2-Fluorobiphenyl					62.9	61.4		34.0-125				
(S) p-Terphenyl-d14					79.5	67.0		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799972-2 06/03/22 10:51

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	80.2			14.0-149
(S) 2-Fluorobiphenyl	80.8			34.0-125
(S) p-Terphenyl-d14	94.2			23.0-120

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS)

(LCS) R3799972-1 06/03/22 10:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0514	64.3	50.0-126	
Acenaphthene	0.0800	0.0564	70.5	50.0-120	
Acenaphthylene	0.0800	0.0555	69.4	50.0-120	
Benzo(a)anthracene	0.0800	0.0513	64.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0504	63.0	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0583	72.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0584	73.0	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0558	69.8	49.0-125	
Chrysene	0.0800	0.0567	70.9	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0561	70.1	47.0-125	
Fluoranthene	0.0800	0.0533	66.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3799972-1 06/03/22 10:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0565	70.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0544	68.0	46.0-125	
Naphthalene	0.0800	0.0549	68.6	50.0-120	
Phenanthrene	0.0800	0.0565	70.6	47.0-120	
Pyrene	0.0800	0.0595	74.4	43.0-123	
1-Methylnaphthalene	0.0800	0.0555	69.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0534	66.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0576	72.0	50.0-120	
<i>(S)</i> Nitrobenzene-d5			76.7	14.0-149	
<i>(S)</i> 2-Fluorobiphenyl			77.0	34.0-125	
<i>(S)</i> p-Terphenyl-d14			89.7	23.0-120	

L1499435-14 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499435-14 06/03/22 11:44 • (MS) R3799972-3 06/03/22 12:02 • (MSD) R3799972-4 06/03/22 12:20

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0809	U	0.0542	0.0602	67.0	74.4	1	10.0-145			10.5	30
Acenaphthene	0.0809	U	0.0599	0.0649	74.0	80.2	1	14.0-127			8.11	27
Acenaphthylene	0.0809	U	0.0582	0.0636	71.9	78.6	1	21.0-124			8.81	25
Benzo(a)anthracene	0.0809	0.00377	0.0571	0.0617	65.9	71.6	1	10.0-139			7.82	30
Benzo(a)pyrene	0.0809	0.00439	0.0574	0.0637	65.5	73.3	1	10.0-141			10.4	31
Benzo(b)fluoranthene	0.0809	0.00714	0.0673	0.0729	74.3	81.2	1	10.0-140			7.95	36
Benzo(g,h,i)perylene	0.0809	0.00530	0.0656	0.0726	74.5	83.1	1	10.0-140			10.2	33
Benzo(k)fluoranthene	0.0809	0.00248	0.0594	0.0643	70.3	76.4	1	10.0-137			8.01	31
Chrysene	0.0809	0.00441	0.0643	0.0692	74.0	80.0	1	10.0-145			7.27	30
Dibenz(a,h)anthracene	0.0809	U	0.0585	0.0654	72.3	80.7	1	10.0-132			11.0	31
Fluoranthene	0.0809	0.00583	0.0611	0.0661	68.3	74.4	1	10.0-153			7.79	33
Fluorene	0.0809	U	0.0601	0.0645	74.2	79.7	1	11.0-130			7.13	29
Indeno(1,2,3-cd)pyrene	0.0809	0.00496	0.0609	0.0689	69.1	79.0	1	10.0-137			12.3	32
Naphthalene	0.0809	0.00783	0.0674	0.0698	73.6	76.6	1	10.0-135			3.46	27
Phenanthrene	0.0809	0.00604	0.0645	0.0694	72.3	78.3	1	10.0-144			7.25	31
Pyrene	0.0809	0.00722	0.0702	0.0736	77.8	82.0	1	10.0-148			4.74	35
1-Methylnaphthalene	0.0809	0.00769	0.0745	0.0712	82.6	78.5	1	10.0-142			4.53	28
2-Methylnaphthalene	0.0809	0.0168	0.0913	0.0750	92.0	71.8	1	10.0-137			19.6	28
2-Chloronaphthalene	0.0809	U	0.0604	0.0656	74.6	81.0	1	29.0-120			8.20	24
<i>(S)</i> Nitrobenzene-d5					82.0	87.6		14.0-149				
<i>(S)</i> 2-Fluorobiphenyl					80.9	85.8		34.0-125				
<i>(S)</i> p-Terphenyl-d14					92.7	96.2		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799631-2 06/03/22 11:44

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	77.0			14.0-149
(S) 2-Fluorobiphenyl	71.9			34.0-125
(S) p-Terphenyl-d14	91.2			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3799631-1 06/03/22 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0607	75.9	50.0-126	
Acenaphthene	0.0800	0.0600	75.0	50.0-120	
Acenaphthylene	0.0800	0.0632	79.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0614	76.8	45.0-120	
Benzo(a)pyrene	0.0800	0.0527	65.9	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0606	75.8	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0605	75.6	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0575	71.9	49.0-125	
Chrysene	0.0800	0.0610	76.3	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0634	79.3	47.0-125	
Fluoranthene	0.0800	0.0632	79.0	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3799631-1 06/03/22 11:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0622	77.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0632	79.0	46.0-125	
Naphthalene	0.0800	0.0626	78.3	50.0-120	
Phenanthrene	0.0800	0.0603	75.4	47.0-120	
Pyrene	0.0800	0.0597	74.6	43.0-123	
1-Methylnaphthalene	0.0800	0.0627	78.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0577	72.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0557	69.6	50.0-120	
(S) Nitrobenzene-d5			87.4	14.0-149	
(S) 2-Fluorobiphenyl			80.1	34.0-125	
(S) p-Terphenyl-d14			95.8	23.0-120	

L1497065-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497065-01 06/03/22 16:23 • (MS) R3799631-3 06/03/22 16:43 • (MSD) R3799631-4 06/03/22 17:03

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0792	U	0.0432	0.0450	54.5	56.8	1	10.0-145			4.08	30
Acenaphthene	0.0792	U	0.0493	0.0637	62.2	80.4	1	14.0-127			25.5	27
Acenaphthylene	0.0792	U	0.0457	0.0548	57.7	69.2	1	21.0-124			18.1	25
Benzo(a)anthracene	0.0792	0.0132	0.0522	0.0683	49.2	69.6	1	10.0-139			26.7	30
Benzo(a)pyrene	0.0792	0.00777	0.0423	0.0550	43.6	59.6	1	10.0-141			26.1	31
Benzo(b)fluoranthene	0.0792	0.0218	0.0453	0.0644	29.7	53.8	1	10.0-140			34.8	36
Benzo(g,h,i)perylene	0.0792	0.00969	0.0401	0.0542	38.4	56.2	1	10.0-140			29.9	33
Benzo(k)fluoranthene	0.0792	U	0.0375	0.0463	47.3	58.5	1	10.0-137			21.0	31
Chrysene	0.0792	0.0707	0.0664	0.109	0.000	48.4	1	10.0-145	J6	J3	48.6	30
Dibenz(a,h)anthracene	0.0792	0.00900	0.0430	0.0566	42.9	60.1	1	10.0-132			27.3	31
Fluoranthene	0.0792	0.0171	0.0515	0.0690	43.4	65.5	1	10.0-153			29.0	33
Fluorene	0.0792	0.0955	0.0930	0.148	0.000	66.3	1	11.0-130	J6	J3	45.6	29
Indeno(1,2,3-cd)pyrene	0.0792	0.00475	0.0445	0.0562	50.2	65.0	1	10.0-137			23.2	32
Naphthalene	0.0792	0.576	0.403	0.644	0.000	85.9	1	10.0-135	V	J3	46.0	27
Phenanthrene	0.0792	0.315	0.191	0.345	0.000	37.9	1	10.0-144	J6	J3	57.5	31
Pyrene	0.0792	0.0203	0.0486	0.0686	35.7	61.0	1	10.0-148			34.1	35
1-Methylnaphthalene	0.0792	0.347	0.296	0.514	0.000	211	1	10.0-142	V	J3 V	53.8	28
2-Methylnaphthalene	0.0792	0.839	0.561	0.958	0.000	150	1	10.0-137	V	J3 V	52.3	28
2-Chloronaphthalene	0.0792	U	0.0383	0.0408	45.0	48.1	1	29.0-120			6.32	24
(S) Nitrobenzene-d5					69.5	82.7		14.0-149				
(S) 2-Fluorobiphenyl					51.7	56.8		34.0-125				
(S) p-Terphenyl-d14					61.6	72.9		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

GLOSSARY OF TERMS

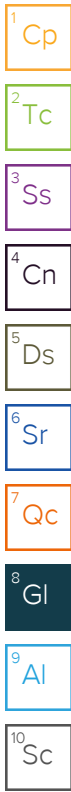
Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.



Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.

GLOSSARY OF TERMS

Qualifier	Description
v3	The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

ACCREDITATIONS & LOCATIONS

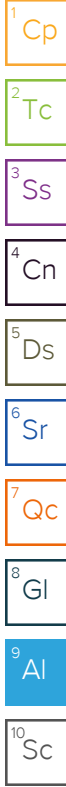
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address: **BGES, Inc. - Anchorage, AK**
 1042 E 6th Ave.
 Anchorage, AK 99501

Billing Information:
 Accounts Payable
 1042 E 6th Ave.
 Anchorage, AK 99501

Report to: **BGES**
 Email To: **bob@bgesinc.com;jayne@bgesinc.com;carol@b**

Project Description: **Homer Airport**
 City/State Collected: **Homer / AK**
 Please Circle: **AK**
 PT MT CT ET

Phone: **907-644-2900**
 Client Project #
 Lab Project # **BGESAAK-HOMER**

Chain of Custody Page **1** of **2**

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **1497358**
1157

Collected by (print): **San Bundy**
 Collected by (signature): **[Signature]**
 Immediately Packed on Ice Yes No

Site/Facility ID #
 P.O. #
 Quote # **00107286**
 Date Results Needed **Standard**

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Analysis / Container / Preservative
 Pres Chk
 AK101 60mlAmb/MeOH/Syr
 AK102/103 4ozClr-NoPres
 SV8270PAHSIMD 4ozClr-NoPres
 TS (%moisture) 4ozClr-NoPres
 V8260LLC 40ml/NaHSO4/Syr/MeOH

Acctnum: **BGESAAK**
 Template: **T208548**
 Prelogin: **P922076**
 PM: **546 - Jared Starkey**
 PB: **05/3/20**
 Shipped Via: **FedEx 2nd Day**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 60mlAmb/MeOH/Syr	AK102/103 4ozClr-NoPres	SV8270PAHSIMD 4ozClr-NoPres	TS (%moisture) 4ozClr-NoPres	V8260LLC 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
SB 120-1	G	SS	0-2.5'	5/19/22	1655	5	X	X	X	X	X		-01
SB 42-1	G	SS	0-2.5'	5/20/22	1218	5	X	X	X	X	X		-02
SB 88-1	G	SS	0-2.5'	5/20/22	1105	5	X	X	X	X	X		-03
SB 43-1	G	SS	0-2.5'	5/20/22	1238	5	X	X	X	X	X		-04
SB 187-1	G	SS	0-2.5'	5/20/22	0425	5	X	X	X	X	X		-05
SB 189-1	G	SS	0-2.5'	5/20/22	1124	5	X	X	X	X	X		-06
SB 186-1	G	SS	0-2.5'	5/20/22	1041	5	X	X	X	X	X		-07
SB 181-3	G	SS	5-7.5'	5/20/22	1023	5	X	X	X	X	X		-08
SB 181-1	G	SS	0-2.5'	5/20/22	1012	5	X	X	X	X	X		-09
SB 77-1	G	SS	0-2.5'	5/20/22	1342	5	X	X	X	X	X		-10

* Matrix: SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____

Samples returned via: UPS FedEx Courier

Tracking # **5765 80903121**

Sample Receipt Checklist

COC Seal Present/Intact: Y N
 COC Signed/Accurate: Y N
 Bottles arrive intact: Y N
 Correct bottles used: Y N
 Sufficient volume used: Y N
 If Applicable
 VOA Zero Headspace: Y N
 Preservation Correct/Checked: Y N
 RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature) **[Signature]** Date: **5/23/22** Time: **0830**

Received by: (Signature) _____ Trip Blank Received: **4** Yes No
 HCL/MeOH TBR

Temp: **2.7 ± 0.2** °C Bottles Received: **95**

Received for lab by: (Signature) **Kylie Tallman** Date: **5/25/22** Time: **0900**

Hold: _____ Condition: **NCF / OK**

Company Name/Address:

BGES, Inc. - Anchorage, AK

1042 E 6th Ave.
Anchorage, AK 99501

Billing Information:

Accounts Payable
1042 E 6th Ave.
Anchorage, AK 99501

Pres
Chk

Analysis / Container / Preservative

Chain of Custody Page 2 of 2



MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
Submitting a sample via this chain of custody
constitutes acknowledgment and acceptance of the
Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Report to:
BGES

Email To:
bob@bgesinc.com;jayne@bgesinc.com;carol@b

Project Description:
Homer Airport

City/State
Collected: **Homer/AK**

Please Circle: **AK**
PT MT CT ET

Phone: **907-644-2900**

Client Project #

Lab Project #
BGESAAK-HOMER

Collected by (print):
Sam Bunch

Site/Facility ID #

P.O. #

Collected by (signature):
[Signature]

Rush? (Lab MUST Be Notified)

Quote #
00107286

Same Day Five Day
Next Day 5 Day (Rad Only)
Two Day 10 Day (Rad Only)
Three Day

Date Results Needed

Immediately
Packed on Ice N Y **X**

Standard

No.
of
Cntrs

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 60mlAmb/MeOH/Syr	AK102/103 4ozClr-NoPres	SV8270PAHSIMD 4ozClr-NoPres	TS (%moisture) 4ozClr-NoPres	V8260LLC 40ml/NaHSO4/Syr/MeOH
SB 78-1	G	SS	0-2.5'	5/20/22	1408	5	X	X	X	X	X
SB 39-1	G	SS	0-2.5'	5/26/22	1140	5	X	X	X	X	X
SB 115-1	G	SS	0-2.5'	5/21/22	1228	5	X	X	X	X	X
SB 110-1	G	SS	0-2.5'	5/21/22	1316	5	X	X	X	X	X
SB 117-1	G	SS	0-2.5'	5/21/22	1246	5	X	X	X	X	X
SB 112-1	G	SS	0-2.5'	5/21/22	1304	5	X	X	X	X	X
SB 184-1	G	SS	0-2.5'	5/22/22	1426	5	X	X	X	X	X
SB 185-1	G	SS	0-2.5'	5/22/22	1359	5	X	X	X	X	X
SB 179-1	G	SS	0-2.5'	5/22/22	1504	5	X	X	X	X	X
Trip Blank		SS					X				X

SDG # **1997358**
Table #
Acctnum: **BGESAAK**
Template: **T208548**
Prelogin: **P922076**
PM: **546 - Jared Starkey**
PB: **08/5/3/22**
Shipped Via: **FedEX 2nd Day**
Remarks | Sample # (lab only)

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N
RAD Screen <0.5 mR/hr: Y N

Samples returned via:
 UPS FedEx Courier

Tracking # **5755809903121**

Relinquished by (Signature): **[Signature]**

Date: **5/23/22** Time: **0830**

Received by: (Signature)

Trip Blank Received: Yes No
4 **0**
HCl MeOH
TBR

Relinquished by: (Signature)

Date: Time:

Received by: (Signature)

Temp: °C **2.7** **10=2.7** **95**
Bottles Received:

If preservation required by Login: Date/Time

Relinquished by: (Signature)

Date: Time:

Received for lab by: (Signature)

Kylie Tallman **5/25/22** **0900**

Date: **24** Time: **0900**

Hold:

Condition:
NCF / OK

0523

June 08, 2022

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

BGES, Inc. - Anchorage, AK

Sample Delivery Group: L1498453
Samples Received: 05/26/2022
Project Number:
Description: Homer Airport

Report To: BGES
1042 E 6th Ave.
Anchorage, AK 99501

Entire Report Reviewed By:



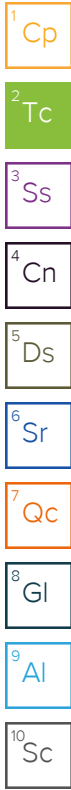
Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

SB 4-2 L1498453-01 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 12:27
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872618	1	06/02/22 16:47	06/02/22 17:03	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1872319	23	05/23/22 12:27	06/02/22 20:37	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874574	28.7	05/23/22 12:27	06/06/22 03:37	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/04/22 22:58	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	1	06/06/22 04:49	06/06/22 19:12	AMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	10	06/06/22 04:49	06/07/22 17:48	AMG	Mt. Juliet, TN



SB 25-1 L1498453-02 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 10:55
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872618	1	06/02/22 16:47	06/02/22 17:03	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1872319	40	05/23/22 10:55	06/02/22 21:03	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874574	500	05/23/22 10:55	06/06/22 04:01	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/04/22 23:49	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	1	06/06/22 04:49	06/06/22 19:47	AMG	Mt. Juliet, TN

SB 26-1 L1498453-03 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 11:08
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872618	1	06/02/22 16:47	06/02/22 17:03	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873970	1	05/23/22 11:08	06/03/22 17:56	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874574	25	05/23/22 11:08	06/06/22 06:24	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/04/22 21:42	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	1	06/06/22 04:49	06/06/22 18:37	AMG	Mt. Juliet, TN

SB 28-1 L1498453-04 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 12:02
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872618	1	06/02/22 16:47	06/02/22 17:03	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1.05	05/23/22 12:02	06/03/22 03:41	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	27.8	05/23/22 12:02	06/04/22 01:25	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/05/22 01:18	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	1	06/06/22 04:49	06/06/22 20:04	AMG	Mt. Juliet, TN

SB 6-1 L1498453-05 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:05
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872618	1	06/02/22 16:47	06/02/22 17:03	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	43.6	05/23/22 13:05	06/03/22 08:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	2000	05/23/22 13:05	06/04/22 06:38	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/04/22 22:45	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	1	06/06/22 04:49	06/06/22 18:54	AMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	20	06/06/22 04:49	06/07/22 18:05	AMG	Mt. Juliet, TN

SAMPLE SUMMARY

SB 27-1 L1498453-06 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 11:39
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872618	1	06/02/22 16:47	06/02/22 17:03	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1	05/23/22 11:39	06/03/22 04:08	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/23/22 11:39	06/04/22 01:44	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873377	1	06/03/22 18:18	06/05/22 01:05	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	1	06/06/22 04:49	06/06/22 19:29	AMG	Mt. Juliet, TN



SB 8-2 L1498453-07 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 14:01
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872618	1	06/02/22 16:47	06/02/22 17:03	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1	05/23/22 14:01	06/03/22 04:34	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/23/22 14:01	06/04/22 02:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 03:24	06/06/22 20:46	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873765	1	06/06/22 04:49	06/06/22 18:20	AMG	Mt. Juliet, TN

SB 5-1 L1498453-08 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 12:55
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1	05/23/22 12:55	06/03/22 05:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/23/22 12:55	06/04/22 02:24	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 03:24	06/06/22 22:41	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 18:12	AMG	Mt. Juliet, TN

SB 24-1 L1498453-09 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 10:44
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	9.6	05/23/22 10:44	06/03/22 08:35	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	500	05/23/22 10:44	06/04/22 06:58	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 03:24	06/06/22 22:15	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 16:32	AMG	Mt. Juliet, TN

SB 7-2 L1498453-10 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:48
 Received date/time: 05/26/22 09:00

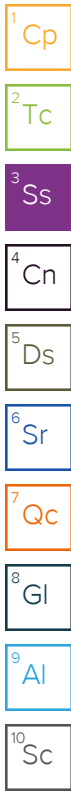
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1	05/23/22 13:48	06/03/22 05:27	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/23/22 13:48	06/04/22 02:43	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 03:24	06/06/22 22:02	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 17:52	AMG	Mt. Juliet, TN

SAMPLE SUMMARY

SB 2-1 L1498453-11 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 14:16
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1.01	05/23/22 14:16	06/03/22 05:54	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	26.3	05/23/22 14:16	06/04/22 03:03	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 03:24	06/06/22 20:59	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 17:32	AMG	Mt. Juliet, TN



SB 6-3 L1498453-12 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:13
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	81.6	05/23/22 13:13	06/03/22 09:01	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	5000	05/23/22 13:13	06/04/22 07:18	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 03:24	06/06/22 21:24	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 16:12	AMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	20	06/06/22 04:22	06/07/22 14:17	AMG	Mt. Juliet, TN

SB 2-3 L1498453-13 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 14:22
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1.03	05/23/22 14:22	06/03/22 06:49	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	32	05/23/22 14:22	06/04/22 03:22	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 03:24	06/06/22 21:11	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 16:52	AMG	Mt. Juliet, TN

SB 3-1 L1498453-14 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 14:34
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1873043	1.07	05/23/22 14:34	06/03/22 07:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	33	05/23/22 14:34	06/04/22 03:42	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1874252	1	06/06/22 03:54	06/07/22 04:51	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 17:12	AMG	Mt. Juliet, TN

SB 6-2 L1498453-15 Solid

Collected by: Sam Bundy
 Collected date/time: 05/23/22 13:10
 Received date/time: 05/26/22 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1872649	1	06/02/22 11:01	06/02/22 11:23	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1874476	4.16	05/23/22 13:10	06/06/22 05:19	JAH	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874574	525	05/23/22 13:10	06/06/22 04:50	BMB	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1874252	1	06/06/22 03:54	06/07/22 05:16	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	1	06/06/22 04:22	06/06/22 18:32	AMG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1873766	10	06/06/22 04:22	06/07/22 13:57	AMG	Mt. Juliet, TN

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Jared Starkey
Project Manager

Volatile Organic Compounds (GC) by Method AK101

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1872319	(MS) R3799125-4, (MSD) R3799125-5	TPHGAK C6 to C10
WG1873043	(MS) R3799492-4, (MSD) R3799492-5	TPHGAK C6 to C10

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1872319	(MSD) R3799125-5	TPHGAK C6 to C10
WG1873043	(MSD) R3799492-5	TPHGAK C6 to C10

Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG1874219	L1498453-04	Bromomethane and Naphthalene
WG1874219	L1498453-05	Bromomethane and Naphthalene
WG1874219	L1498453-06	Bromomethane and Naphthalene
WG1874219	L1498453-07	Bromomethane and Naphthalene
WG1874219	L1498453-08	Bromomethane and Naphthalene
WG1874219	L1498453-09	Bromomethane and Naphthalene
WG1874219	L1498453-10	Bromomethane and Naphthalene
WG1874219	L1498453-11	Bromomethane and Naphthalene
WG1874219	L1498453-12	Bromomethane and Naphthalene
WG1874219	L1498453-13	Bromomethane and Naphthalene
WG1874219	L1498453-14	Bromomethane and Naphthalene
WG1874574	L1498453-01	Chloroethane and Naphthalene
WG1874574	L1498453-02	Chloroethane and Naphthalene
WG1874574	L1498453-03	Chloroethane and Naphthalene
WG1874574	L1498453-15	Chloroethane and Naphthalene

The same analyte is found in the associated blank.

Batch	Analyte	Lab Sample ID
WG1874574	1,2,4-Trimethylbenzene	L1498453-02



CASE NARRATIVE

Volatile Organic Compounds (GC/MS) by Method 8260D

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1874219	(LCSD) R3799546-2, L1498453-04, 05, 06, 07, 08, 09, 10, 11, 12, 13, 14	Acetone

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG1873761	n-Triacontane d62	L1498453-11, 13
WG1873761	o-Terphenyl	L1498453-11, 13

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG1873377	(MS) R3799595-8	AK102 DRO C10-C25
WG1873761	(MSD) R3800456-7, L1498453-08	AK102 DRO C10-C25
WG1874252	(MS) R3800458-6, (MSD) R3800458-7	AK102 DRO C10-C25

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1873761	(MS) R3800456-8, (MSD) R3800456-9, L1498453-08	AK103 RRO C25-C36
WG1874252	(MS) R3800458-8	AK103 RRO C25-C36

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1873761	(MSD) R3800456-7, L1498453-08	AK102 DRO C10-C25
WG1874252	(MSD) R3800458-7, (MSD) R3800458-9	AK102 DRO C10-C25 and AK103 RRO C25-C36

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Surrogate recovery limits have been exceeded; values are outside upper control limits.

Batch	Analyte	Lab Sample ID
WG1873765	Nitrobenzene-d5	L1498453-01, 05
WG1873766	2-Fluorobiphenyl	L1498453-12
WG1873766	Nitrobenzene-d5	L1498453-12

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG1873765	2-Fluorobiphenyl	L1498453-05
WG1873765	Nitrobenzene-d5	L1498453-05
WG1873765	p-Terphenyl-d14	L1498453-05
WG1873766	2-Fluorobiphenyl	L1498453-12
WG1873766	Nitrobenzene-d5	L1498453-12
WG1873766	p-Terphenyl-d14	L1498453-12

Surrogate recovery limits have been exceeded; values are outside lower control limits.

Batch	Analyte	Lab Sample ID
WG1873766	Nitrobenzene-d5	L1498453-15



DETECTION SUMMARY

Volatile Organic Compounds (GC) by Method AK101

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 4-2	L1498453-01	TPHGAK C6 to C10	95.1		30.9	81.1	23	06/02/2022 20:37	WG1872319
SB 25-1	L1498453-02	TPHGAK C6 to C10	228		66.3	174	40	06/02/2022 21:03	WG1872319
SB 26-1	L1498453-03	TPHGAK C6 to C10	8.85		1.07	2.83	1	06/03/2022 17:56	WG1873970
SB 6-1	L1498453-05	TPHGAK C6 to C10	620		45.6	120	43.6	06/03/2022 08:08	WG1873043
SB 24-1	L1498453-09	TPHGAK C6 to C10	981		10.3	27.2	9.6	06/03/2022 08:35	WG1873043
SB 6-3	L1498453-12	TPHGAK C6 to C10	858		91.1	240	81.6	06/03/2022 09:01	WG1873043
SB 6-2	L1498453-15	TPHGAK C6 to C10	28.8	<u>J</u>	11.9	31.4	4.16	06/06/2022 05:19	WG1874476

Volatile Organic Compounds (GC/MS) by Method 8260D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 4-2	L1498453-01	n-Butylbenzene	0.151		0.0104	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	sec-Butylbenzene	0.0882		0.00814	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	Ethylbenzene	0.0171	<u>J</u>	0.0122	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	Isopropylbenzene	0.0241	<u>J</u>	0.0172	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	p-Isopropyltoluene	0.0570		0.00826	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	Naphthalene	0.284	<u>C3</u>	0.202	0.203	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	n-Propylbenzene	0.0639		0.00834	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	1,2,4-Trimethylbenzene	0.583		0.00855	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	1,2,3-Trimethylbenzene	0.298		0.0116	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	1,3,5-Trimethylbenzene	0.230		0.0108	0.0405	28.7	06/06/2022 03:37	WG1874574
SB 4-2	L1498453-01	Xylenes, Total	0.233		0.0203	0.122	28.7	06/06/2022 03:37	WG1874574
SB 25-1	L1498453-02	Benzene	0.523	<u>J</u>	0.328	0.872	500	06/06/2022 04:01	WG1874574
SB 25-1	L1498453-02	1,2,4-Trimethylbenzene	0.309	<u>B J</u>	0.185	0.872	500	06/06/2022 04:01	WG1874574
SB 25-1	L1498453-02	Xylenes, Total	1.42	<u>J</u>	0.436	2.62	500	06/06/2022 04:01	WG1874574
SB 26-1	L1498453-03	Benzene	0.0435		0.0120	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	Ethylbenzene	0.0687		0.00963	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	Isopropylbenzene	0.0480		0.0136	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	p-Isopropyltoluene	0.00967	<u>J</u>	0.00655	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	n-Propylbenzene	0.0195	<u>J</u>	0.00662	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	1,2,4-Trimethylbenzene	0.159		0.00678	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	1,2,3-Trimethylbenzene	0.0778		0.00921	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	1,3,5-Trimethylbenzene	0.0167	<u>J</u>	0.00854	0.0321	25	06/06/2022 06:24	WG1874574
SB 26-1	L1498453-03	Xylenes, Total	0.258		0.0161	0.0963	25	06/06/2022 06:24	WG1874574
SB 28-1	L1498453-04	n-Propylbenzene	0.0573		0.00833	0.0404	27.8	06/04/2022 01:25	WG1874219
SB 28-1	L1498453-04	Xylenes, Total	0.0316	<u>J</u>	0.0202	0.121	27.8	06/04/2022 01:25	WG1874219
SB 6-1	L1498453-05	n-Butylbenzene	11.8		0.621	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	sec-Butylbenzene	6.57		0.483	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	Ethylbenzene	3.66		0.722	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	Isopropylbenzene	3.66		1.02	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	p-Isopropyltoluene	4.40		0.491	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	4-Methyl-2-pentanone (MIBK)	5.32	<u>J</u>	2.29	24.1	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	Naphthalene	32.1	<u>C3</u>	12.0	12.0	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	n-Propylbenzene	10.3		0.495	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	1,1,2-Trichloroethane	2.09	<u>J</u>	1.02	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	Trichloroethene	0.486	<u>J</u>	0.481	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	1,2,4-Trimethylbenzene	50.5		0.508	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	1,2,3-Trimethylbenzene	21.0		0.690	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	1,3,5-Trimethylbenzene	16.0		0.640	2.41	2000	06/04/2022 06:38	WG1874219
SB 6-1	L1498453-05	Xylenes, Total	28.6		1.20	7.22	2000	06/04/2022 06:38	WG1874219



DETECTION SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 24-1	L1498453-09	1,1,2-Trichloroethane	3.02		0.274	0.642	500	06/04/2022 06:58	WG1874219
SB 24-1	L1498453-09	Trichloroethene	0.231	J	0.128	0.642	500	06/04/2022 06:58	WG1874219
SB 24-1	L1498453-09	1,2,4-Trimethylbenzene	0.668		0.136	0.642	500	06/04/2022 06:58	WG1874219
SB 24-1	L1498453-09	1,3,5-Trimethylbenzene	0.218	J	0.171	0.642	500	06/04/2022 06:58	WG1874219
SB 24-1	L1498453-09	Xylenes, Total	1.36	J	0.321	1.93	500	06/04/2022 06:58	WG1874219
SB 7-2	L1498453-10	1,2,4-Trimethylbenzene	0.0387		0.00682	0.0323	25	06/04/2022 02:43	WG1874219
SB 7-2	L1498453-10	1,2,3-Trimethylbenzene	0.0125	J	0.00926	0.0323	25	06/04/2022 02:43	WG1874219
SB 7-2	L1498453-10	Xylenes, Total	0.0185	J	0.0161	0.0969	25	06/04/2022 02:43	WG1874219
SB 6-3	L1498453-12	n-Butylbenzene	34.7		1.76	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	sec-Butylbenzene	20.1		1.38	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	Ethylbenzene	17.6		2.05	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	Isopropylbenzene	12.3		2.91	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	p-Isopropyltoluene	13.8		1.39	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	4-Methyl-2-pentanone (MIBK)	14.2	J	6.48	68.2	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	Naphthalene	194	C3	34.0	34.1	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	n-Propylbenzene	37.5		1.41	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	1,1,2-Trichloroethane	5.36	J	2.91	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	1,2,4-Trimethylbenzene	181		1.45	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	1,2,3-Trimethylbenzene	77.0		1.95	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	1,3,5-Trimethylbenzene	56.1		1.81	6.82	5000	06/04/2022 07:18	WG1874219
SB 6-3	L1498453-12	Xylenes, Total	111		3.41	20.5	5000	06/04/2022 07:18	WG1874219
SB 6-2	L1498453-15	n-Butylbenzene	2.22	J	0.666	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	sec-Butylbenzene	1.69	J	0.523	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	Ethylbenzene	1.26	J	0.775	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	Isopropylbenzene	1.36	J	1.10	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	p-Isopropyltoluene	0.859	J	0.528	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	n-Propylbenzene	3.15		0.533	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	1,2,4-Trimethylbenzene	17.0		0.548	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	1,2,3-Trimethylbenzene	7.65		0.745	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	1,3,5-Trimethylbenzene	4.89		0.691	2.59	525	06/06/2022 04:50	WG1874574
SB 6-2	L1498453-15	Xylenes, Total	11.9		1.30	7.80	525	06/06/2022 04:50	WG1874574



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 4-2	L1498453-01	AK102 DRO C10-C25	1700		106	244	1	06/04/2022 22:58	WG1873377
SB 4-2	L1498453-01	AK103 RRO C25-C36	7380		81.2	244	1	06/04/2022 22:58	WG1873377
SB 25-1	L1498453-02	AK102 DRO C10-C25	497		116	267	1	06/04/2022 23:49	WG1873377
SB 25-1	L1498453-02	AK103 RRO C25-C36	864		89.0	267	1	06/04/2022 23:49	WG1873377
SB 26-1	L1498453-03	AK102 DRO C10-C25	243		98.0	226	1	06/04/2022 21:42	WG1873377
SB 26-1	L1498453-03	AK103 RRO C25-C36	81.0	J	75.4	226	1	06/04/2022 21:42	WG1873377
SB 28-1	L1498453-04	AK102 DRO C10-C25	114	J	107	248	1	06/05/2022 01:18	WG1873377
SB 28-1	L1498453-04	AK103 RRO C25-C36	1360		82.5	248	1	06/05/2022 01:18	WG1873377
SB 6-1	L1498453-05	AK102 DRO C10-C25	4220		95.3	220	1	06/04/2022 22:45	WG1873377
SB 6-1	L1498453-05	AK103 RRO C25-C36	121	J	73.3	220	1	06/04/2022 22:45	WG1873377
SB 27-1	L1498453-06	AK102 DRO C10-C25	149	J	122	282	1	06/05/2022 01:05	WG1873377
SB 27-1	L1498453-06	AK103 RRO C25-C36	1940		93.9	282	1	06/05/2022 01:05	WG1873377
SB 5-1	L1498453-08	AK103 RRO C25-C36	320	J6	75.4	226	1	06/06/2022 22:41	WG1873761
SB 24-1	L1498453-09	AK103 RRO C25-C36	273		75.4	226	1	06/06/2022 22:15	WG1873761
SB 7-2	L1498453-10	AK103 RRO C25-C36	583		75.8	228	1	06/06/2022 22:02	WG1873761
SB 2-1	L1498453-11	AK103 RRO C25-C36	512		147	441	1	06/06/2022 20:59	WG1873761
SB 6-3	L1498453-12	AK102 DRO C10-C25	4700		102	235	1	06/06/2022 21:24	WG1873761
SB 6-3	L1498453-12	AK103 RRO C25-C36	224	J	78.3	235	1	06/06/2022 21:24	WG1873761
SB 2-3	L1498453-13	AK103 RRO C25-C36	785		149	449	1	06/06/2022 21:11	WG1873761

DETECTION SUMMARY

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilutio n	Analysis date / time	Batch
SB 3-1	L1498453-14	AK102 DRO C10-C25	432	<u>J</u>	234	540	1	06/07/2022 04:51	WG1874252
SB 3-1	L1498453-14	AK103 RRO C25-C36	5080		180	540	1	06/07/2022 04:51	WG1874252
SB 6-2	L1498453-15	AK102 DRO C10-C25	945		262	604	1	06/07/2022 05:16	WG1874252
SB 6-2	L1498453-15	AK103 RRO C25-C36	6040		201	604	1	06/07/2022 05:16	WG1874252



Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilutio n	Analysis date / time	Batch
SB 4-2	L1498453-01	Anthracene	0.00588	<u>J</u>	0.00281	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Acenaphthene	0.182		0.00255	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Benzo(a)anthracene	0.0266		0.00211	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Benzo(a)pyrene	0.0531		0.00218	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Benzo(b)fluoranthene	0.0315		0.00187	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Benzo(g,h,i)perylene	0.0228		0.00216	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Benzo(k)fluoranthene	0.0108		0.00262	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Chrysene	0.0192		0.00283	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Fluoranthene	0.0664		0.00277	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Fluorene	0.316		0.00250	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Indeno(1,2,3-cd)pyrene	0.0199		0.00221	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Naphthalene	1.85		0.00498	0.0244	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Phenanthrene	0.106		0.00282	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	Pyrene	0.108		0.00244	0.00732	1	06/06/2022 19:12	WG1873765
SB 4-2	L1498453-01	1-Methylnaphthalene	7.89		0.0548	0.244	10	06/07/2022 17:48	WG1873765
SB 4-2	L1498453-01	2-Methylnaphthalene	8.54		0.0521	0.244	10	06/07/2022 17:48	WG1873765
SB 4-2	L1498453-01	2-Chloronaphthalene	0.00770	<u>J</u>	0.00568	0.0244	1	06/06/2022 19:12	WG1873765
SB 25-1	L1498453-02	Benzo(a)anthracene	0.0200		0.00231	0.00802	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	Benzo(a)pyrene	0.0122		0.00239	0.00802	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	Benzo(b)fluoranthene	0.00960		0.00204	0.00802	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	Chrysene	0.0303		0.00310	0.00802	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	Fluoranthene	0.0155		0.00303	0.00802	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	Naphthalene	0.00596	<u>J</u>	0.00545	0.0267	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	Pyrene	0.0557		0.00267	0.00802	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	1-Methylnaphthalene	0.0223	<u>J</u>	0.00600	0.0267	1	06/06/2022 19:47	WG1873765
SB 25-1	L1498453-02	2-Methylnaphthalene	0.0129	<u>J</u>	0.00570	0.0267	1	06/06/2022 19:47	WG1873765
SB 26-1	L1498453-03	Acenaphthene	0.00584	<u>J</u>	0.00236	0.00679	1	06/06/2022 18:37	WG1873765
SB 26-1	L1498453-03	Fluorene	0.0137		0.00232	0.00679	1	06/06/2022 18:37	WG1873765
SB 26-1	L1498453-03	Naphthalene	0.0109	<u>J</u>	0.00462	0.0226	1	06/06/2022 18:37	WG1873765
SB 26-1	L1498453-03	Phenanthrene	0.0138		0.00261	0.00679	1	06/06/2022 18:37	WG1873765
SB 26-1	L1498453-03	Pyrene	0.00479	<u>J</u>	0.00226	0.00679	1	06/06/2022 18:37	WG1873765
SB 26-1	L1498453-03	1-Methylnaphthalene	0.0304		0.00508	0.0226	1	06/06/2022 18:37	WG1873765
SB 26-1	L1498453-03	2-Methylnaphthalene	0.0363		0.00483	0.0226	1	06/06/2022 18:37	WG1873765
SB 28-1	L1498453-04	Benzo(a)anthracene	0.00783		0.00214	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Benzo(a)pyrene	0.00588	<u>J</u>	0.00222	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Benzo(b)fluoranthene	0.0124		0.00190	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Benzo(k)fluoranthene	0.00323	<u>J</u>	0.00266	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Chrysene	0.00808		0.00287	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Fluoranthene	0.0197		0.00281	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Fluorene	0.0133		0.00254	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Indeno(1,2,3-cd)pyrene	0.00763		0.00224	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Phenanthrene	0.0152		0.00286	0.00743	1	06/06/2022 20:04	WG1873765
SB 28-1	L1498453-04	Pyrene	0.0228		0.00248	0.00743	1	06/06/2022 20:04	WG1873765

DETECTION SUMMARY

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB 6-1	L1498453-05	Acenaphthene	0.737		0.00230	0.00660	1	06/06/2022 18:54	WG1873765
SB 6-1	L1498453-05	Benzo(a)anthracene	0.00284	J	0.00190	0.00660	1	06/06/2022 18:54	WG1873765
SB 6-1	L1498453-05	Benzo(b)fluoranthene	0.00230	J	0.00168	0.00660	1	06/06/2022 18:54	WG1873765
SB 6-1	L1498453-05	Fluoranthene	0.0106		0.00250	0.00660	1	06/06/2022 18:54	WG1873765
SB 6-1	L1498453-05	Fluorene	1.67		0.00226	0.00660	1	06/06/2022 18:54	WG1873765
SB 6-1	L1498453-05	Naphthalene	23.6		0.0898	0.440	20	06/07/2022 18:05	WG1873765
SB 6-1	L1498453-05	Phenanthrene	0.511		0.00254	0.00660	1	06/06/2022 18:54	WG1873765
SB 6-1	L1498453-05	Pyrene	0.00986		0.00220	0.00660	1	06/06/2022 18:54	WG1873765
SB 6-1	L1498453-05	1-Methylnaphthalene	30.5		0.0988	0.440	20	06/07/2022 18:05	WG1873765
SB 6-1	L1498453-05	2-Methylnaphthalene	42.3		0.0940	0.440	20	06/07/2022 18:05	WG1873765
SB 27-1	L1498453-06	Benzo(a)anthracene	0.0130		0.00244	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Benzo(a)pyrene	0.0137		0.00252	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Benzo(b)fluoranthene	0.0154		0.00216	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Benzo(g,h,i)perylene	0.0151		0.00249	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Benzo(k)fluoranthene	0.00403	J	0.00303	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Chrysene	0.0107		0.00327	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Fluoranthene	0.0137		0.00320	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Fluorene	0.0102		0.00289	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Indeno(1,2,3-cd)pyrene	0.0140		0.00255	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Phenanthrene	0.0147		0.00326	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	Pyrene	0.0159		0.00282	0.00845	1	06/06/2022 19:29	WG1873765
SB 27-1	L1498453-06	2-Methylnaphthalene	0.00686	J	0.00602	0.0282	1	06/06/2022 19:29	WG1873765
SB 5-1	L1498453-08	Pyrene	0.00270	J	0.00226	0.00679	1	06/06/2022 18:12	WG1873766
SB 24-1	L1498453-09	Benzo(a)anthracene	0.00217	J	0.00196	0.00679	1	06/06/2022 16:32	WG1873766
SB 24-1	L1498453-09	Benzo(b)fluoranthene	0.00217	J	0.00173	0.00679	1	06/06/2022 16:32	WG1873766
SB 24-1	L1498453-09	Fluoranthene	0.00650	J	0.00257	0.00679	1	06/06/2022 16:32	WG1873766
SB 24-1	L1498453-09	Naphthalene	0.0130	J	0.00462	0.0226	1	06/06/2022 16:32	WG1873766
SB 24-1	L1498453-09	Phenanthrene	0.00662	J	0.00261	0.00679	1	06/06/2022 16:32	WG1873766
SB 24-1	L1498453-09	Pyrene	0.00611	J	0.00226	0.00679	1	06/06/2022 16:32	WG1873766
SB 24-1	L1498453-09	1-Methylnaphthalene	0.0137	J	0.00508	0.0226	1	06/06/2022 16:32	WG1873766
SB 24-1	L1498453-09	2-Methylnaphthalene	0.0188	J	0.00483	0.0226	1	06/06/2022 16:32	WG1873766
SB 7-2	L1498453-10	Naphthalene	0.00599	J	0.00464	0.0228	1	06/06/2022 17:52	WG1873766
SB 7-2	L1498453-10	Pyrene	0.00244	J	0.00228	0.00683	1	06/06/2022 17:52	WG1873766
SB 2-1	L1498453-11	Fluorene	0.0206		0.00452	0.0132	1	06/06/2022 17:32	WG1873766
SB 2-1	L1498453-11	Naphthalene	0.317		0.00900	0.0441	1	06/06/2022 17:32	WG1873766
SB 2-1	L1498453-11	1-Methylnaphthalene	0.229		0.00990	0.0441	1	06/06/2022 17:32	WG1873766
SB 2-1	L1498453-11	2-Methylnaphthalene	0.595		0.00941	0.0441	1	06/06/2022 17:32	WG1873766
SB 6-3	L1498453-12	Acenaphthene	0.551		0.00246	0.00705	1	06/06/2022 16:12	WG1873766
SB 6-3	L1498453-12	Benzo(a)anthracene	0.00234	J	0.00203	0.00705	1	06/06/2022 16:12	WG1873766
SB 6-3	L1498453-12	Benzo(b)fluoranthene	0.00201	J	0.00180	0.00705	1	06/06/2022 16:12	WG1873766
SB 6-3	L1498453-12	Fluoranthene	0.00858		0.00267	0.00705	1	06/06/2022 16:12	WG1873766
SB 6-3	L1498453-12	Fluorene	1.23		0.00241	0.00705	1	06/06/2022 16:12	WG1873766
SB 6-3	L1498453-12	Naphthalene	18.2		0.0959	0.470	20	06/07/2022 14:17	WG1873766
SB 6-3	L1498453-12	Phenanthrene	0.398		0.00271	0.00705	1	06/06/2022 16:12	WG1873766
SB 6-3	L1498453-12	Pyrene	0.00797		0.00235	0.00705	1	06/06/2022 16:12	WG1873766
SB 6-3	L1498453-12	1-Methylnaphthalene	23.5		0.106	0.470	20	06/07/2022 14:17	WG1873766
SB 6-3	L1498453-12	2-Methylnaphthalene	31.1		0.100	0.470	20	06/07/2022 14:17	WG1873766
SB 3-1	L1498453-14	Fluorene	0.0140	J	0.00554	0.0162	1	06/06/2022 17:12	WG1873766
SB 6-2	L1498453-15	Acenaphthene	0.176		0.00631	0.0181	1	06/06/2022 18:32	WG1873766
SB 6-2	L1498453-15	Fluorene	0.435		0.00619	0.0181	1	06/06/2022 18:32	WG1873766
SB 6-2	L1498453-15	Naphthalene	10.9		0.0123	0.0604	1	06/06/2022 18:32	WG1873766
SB 6-2	L1498453-15	Phenanthrene	0.117		0.00698	0.0181	1	06/06/2022 18:32	WG1873766
SB 6-2	L1498453-15	1-Methylnaphthalene	9.82		0.0136	0.0604	1	06/06/2022 18:32	WG1873766
SB 6-2	L1498453-15	2-Methylnaphthalene	14.9		0.129	0.604	10	06/07/2022 13:57	WG1873766

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	82.0		1	06/02/2022 17:03	WG1872618

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	95.1		30.9	81.1	23	06/02/2022 20:37	WG1872319
(S) a,a,a-Trifluorotoluene(FID)	79.4			50.0-150		06/02/2022 20:37	WG1872319

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	U		0.838	2.03	28.7	06/06/2022 03:37	WG1874574
Acrylonitrile	U		0.0819	0.405	28.7	06/06/2022 03:37	WG1874574
Benzene	U		0.0152	0.0405	28.7	06/06/2022 03:37	WG1874574
Bromobenzene	U		0.0111	0.0405	28.7	06/06/2022 03:37	WG1874574
Bromodichloromethane	U		0.0294	0.0405	28.7	06/06/2022 03:37	WG1874574
Bromoform	U		0.0172	0.0405	28.7	06/06/2022 03:37	WG1874574
Bromomethane	U		0.0474	0.203	28.7	06/06/2022 03:37	WG1874574
n-Butylbenzene	0.151		0.0104	0.0405	28.7	06/06/2022 03:37	WG1874574
sec-Butylbenzene	0.0882		0.00814	0.0405	28.7	06/06/2022 03:37	WG1874574
tert-Butylbenzene	U		0.00834	0.0405	28.7	06/06/2022 03:37	WG1874574
Carbon tetrachloride	U		0.0100	0.0405	28.7	06/06/2022 03:37	WG1874574
Chlorobenzene	U		0.00778	0.0405	28.7	06/06/2022 03:37	WG1874574
Chlorodibromomethane	U		0.00907	0.0405	28.7	06/06/2022 03:37	WG1874574
Chloroethane	U	<u>C3</u>	0.0405	0.203	28.7	06/06/2022 03:37	WG1874574
Chloroform	U		0.0418	0.203	28.7	06/06/2022 03:37	WG1874574
Chloromethane	U		0.0264	0.101	28.7	06/06/2022 03:37	WG1874574
2-Chlorotoluene	U		0.00912	0.0405	28.7	06/06/2022 03:37	WG1874574
4-Chlorotoluene	U		0.0279	0.0405	28.7	06/06/2022 03:37	WG1874574
1,2-Dibromo-3-Chloropropane	U		0.0769	0.203	28.7	06/06/2022 03:37	WG1874574
1,2-Dibromoethane	U		0.0101	0.0405	28.7	06/06/2022 03:37	WG1874574
Dibromomethane	U		0.0141	0.0405	28.7	06/06/2022 03:37	WG1874574
1,2-Dichlorobenzene	U		0.0172	0.0405	28.7	06/06/2022 03:37	WG1874574
1,3-Dichlorobenzene	U		0.0243	0.0405	28.7	06/06/2022 03:37	WG1874574
1,4-Dichlorobenzene	U		0.0336	0.0405	28.7	06/06/2022 03:37	WG1874574
Dichlorodifluoromethane	U		0.0116	0.203	28.7	06/06/2022 03:37	WG1874574
1,1-Dichloroethane	U		0.0109	0.0405	28.7	06/06/2022 03:37	WG1874574
1,2-Dichloroethane	U		0.0182	0.0405	28.7	06/06/2022 03:37	WG1874574
1,1-Dichloroethene	U		0.0144	0.0405	28.7	06/06/2022 03:37	WG1874574
cis-1,2-Dichloroethene	U		0.0192	0.0405	28.7	06/06/2022 03:37	WG1874574
trans-1,2-Dichloroethene	U		0.0203	0.0405	28.7	06/06/2022 03:37	WG1874574
1,2-Dichloropropane	U		0.00665	0.0405	28.7	06/06/2022 03:37	WG1874574
1,1-Dichloropropene	U		0.0152	0.0405	28.7	06/06/2022 03:37	WG1874574
1,3-Dichloropropane	U		0.00912	0.0405	28.7	06/06/2022 03:37	WG1874574
cis-1,3-Dichloropropene	U		0.0172	0.0405	28.7	06/06/2022 03:37	WG1874574
trans-1,3-Dichloropropene	U		0.0274	0.0405	28.7	06/06/2022 03:37	WG1874574
2,2-Dichloropropane	U		0.0152	0.0405	28.7	06/06/2022 03:37	WG1874574
Di-isopropyl ether	U		0.00895	0.0405	28.7	06/06/2022 03:37	WG1874574
Ethylbenzene	0.0171	<u>J</u>	0.0122	0.0405	28.7	06/06/2022 03:37	WG1874574
Hexachloro-1,3-butadiene	U		0.0139	0.0405	28.7	06/06/2022 03:37	WG1874574
Isopropylbenzene	0.0241	<u>J</u>	0.0172	0.0405	28.7	06/06/2022 03:37	WG1874574
p-Isopropyltoluene	0.0570		0.00826	0.0405	28.7	06/06/2022 03:37	WG1874574
2-Butanone (MEK)	U		0.189	0.405	28.7	06/06/2022 03:37	WG1874574
Methylene Chloride	U		0.0405	0.203	28.7	06/06/2022 03:37	WG1874574
4-Methyl-2-pentanone (MIBK)	U		0.0385	0.405	28.7	06/06/2022 03:37	WG1874574

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0141	0.0405	28.7	06/06/2022 03:37	WG1874574
Naphthalene	0.284	C3	0.202	0.203	28.7	06/06/2022 03:37	WG1874574
n-Propylbenzene	0.0639		0.00834	0.0405	28.7	06/06/2022 03:37	WG1874574
Styrene	U		0.00903	0.0405	28.7	06/06/2022 03:37	WG1874574
1,1,1,2-Tetrachloroethane	U		0.0120	0.0405	28.7	06/06/2022 03:37	WG1874574
1,1,2,2-Tetrachloroethane	U		0.00936	0.0405	28.7	06/06/2022 03:37	WG1874574
1,1,2-Trichlorotrifluoroethane	U		0.0172	0.0405	28.7	06/06/2022 03:37	WG1874574
Tetrachloroethene	U		0.0132	0.0405	28.7	06/06/2022 03:37	WG1874574
Toluene	U		0.0498	0.203	28.7	06/06/2022 03:37	WG1874574
1,2,3-Trichlorobenzene	U		0.0124	0.0405	28.7	06/06/2022 03:37	WG1874574
1,2,4-Trichlorobenzene	U		0.0157	0.0405	28.7	06/06/2022 03:37	WG1874574
1,1,1-Trichloroethane	U		0.0150	0.0405	28.7	06/06/2022 03:37	WG1874574
1,1,2-Trichloroethane	U		0.0172	0.0405	28.7	06/06/2022 03:37	WG1874574
Trichloroethene	U		0.00810	0.0405	28.7	06/06/2022 03:37	WG1874574
Trichlorofluoromethane	U		0.0144	0.203	28.7	06/06/2022 03:37	WG1874574
1,2,3-Trichloropropane	U		0.00988	0.101	28.7	06/06/2022 03:37	WG1874574
1,2,4-Trimethylbenzene	0.583		0.00855	0.0405	28.7	06/06/2022 03:37	WG1874574
1,2,3-Trimethylbenzene	0.298		0.0116	0.0405	28.7	06/06/2022 03:37	WG1874574
Vinyl chloride	U		0.00916	0.0405	28.7	06/06/2022 03:37	WG1874574
1,3,5-Trimethylbenzene	0.230		0.0108	0.0405	28.7	06/06/2022 03:37	WG1874574
Xylenes, Total	0.233		0.0203	0.122	28.7	06/06/2022 03:37	WG1874574
(S) Toluene-d8	98.4			75.0-131		06/06/2022 03:37	WG1874574
(S) 4-Bromofluorobenzene	115			67.0-138		06/06/2022 03:37	WG1874574
(S) 1,2-Dichloroethane-d4	96.4			70.0-130		06/06/2022 03:37	WG1874574



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	1700		106	244	1	06/04/2022 22:58	WG1873377
AK103 RRO C25-C36	7380		81.2	244	1	06/04/2022 22:58	WG1873377
(S) o-Terphenyl	101			50.0-150		06/04/2022 22:58	WG1873377
(S) n-Triacontane d62	77.1			50.0-150		06/04/2022 22:58	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	0.00588	J	0.00281	0.00732	1	06/06/2022 19:12	WG1873765
Acenaphthene	0.182		0.00255	0.00732	1	06/06/2022 19:12	WG1873765
Acenaphthylene	U		0.00264	0.00732	1	06/06/2022 19:12	WG1873765
Benzo(a)anthracene	0.0266		0.00211	0.00732	1	06/06/2022 19:12	WG1873765
Benzo(a)pyrene	0.0531		0.00218	0.00732	1	06/06/2022 19:12	WG1873765
Benzo(b)fluoranthene	0.0315		0.00187	0.00732	1	06/06/2022 19:12	WG1873765
Benzo(g,h,i)perylene	0.0228		0.00216	0.00732	1	06/06/2022 19:12	WG1873765
Benzo(k)fluoranthene	0.0108		0.00262	0.00732	1	06/06/2022 19:12	WG1873765
Chrysene	0.0192		0.00283	0.00732	1	06/06/2022 19:12	WG1873765
Dibenz(a,h)anthracene	U		0.00210	0.00732	1	06/06/2022 19:12	WG1873765
Fluoranthene	0.0664		0.00277	0.00732	1	06/06/2022 19:12	WG1873765
Fluorene	0.316		0.00250	0.00732	1	06/06/2022 19:12	WG1873765
Indeno(1,2,3-cd)pyrene	0.0199		0.00221	0.00732	1	06/06/2022 19:12	WG1873765
Naphthalene	1.85		0.00498	0.0244	1	06/06/2022 19:12	WG1873765
Phenanthrene	0.106		0.00282	0.00732	1	06/06/2022 19:12	WG1873765
Pyrene	0.108		0.00244	0.00732	1	06/06/2022 19:12	WG1873765
1-Methylnaphthalene	7.89		0.0548	0.244	10	06/07/2022 17:48	WG1873765
2-Methylnaphthalene	8.54		0.0521	0.244	10	06/07/2022 17:48	WG1873765
2-Chloronaphthalene	0.00770	J	0.00568	0.0244	1	06/06/2022 19:12	WG1873765

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	1370	J1		14.0-149		06/07/2022 17:48	WG1873765
(S) Nitrobenzene-d5	1340	J1		14.0-149		06/06/2022 19:12	WG1873765
(S) 2-Fluorobiphenyl	94.1			34.0-125		06/06/2022 19:12	WG1873765
(S) 2-Fluorobiphenyl	92.1			34.0-125		06/07/2022 17:48	WG1873765
(S) p-Terphenyl-d14	89.8			23.0-120		06/07/2022 17:48	WG1873765
(S) p-Terphenyl-d14	84.9			23.0-120		06/06/2022 19:12	WG1873765

Sample Narrative:

L1498453-01 WG1873765: Surrogate failure due to matrix interference

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	74.9		1	06/02/2022 17:03	WG1872618

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	228		66.3	174	40	06/02/2022 21:03	WG1872319
(S) a,a,a-Trifluorotoluene(FID)	79.7			50.0-150		06/02/2022 21:03	WG1872319

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	U		18.1	43.6	500	06/06/2022 04:01	WG1874574
Acrylonitrile	U		1.76	8.72	500	06/06/2022 04:01	WG1874574
Benzene	0.523	J	0.328	0.872	500	06/06/2022 04:01	WG1874574
Bromobenzene	U		0.241	0.872	500	06/06/2022 04:01	WG1874574
Bromodichloromethane	U		0.633	0.872	500	06/06/2022 04:01	WG1874574
Bromoform	U		0.370	0.872	500	06/06/2022 04:01	WG1874574
Bromomethane	U		1.02	4.36	500	06/06/2022 04:01	WG1874574
n-Butylbenzene	U		0.225	0.872	500	06/06/2022 04:01	WG1874574
sec-Butylbenzene	U		0.176	0.872	500	06/06/2022 04:01	WG1874574
tert-Butylbenzene	U		0.180	0.872	500	06/06/2022 04:01	WG1874574
Carbon tetrachloride	U		0.216	0.872	500	06/06/2022 04:01	WG1874574
Chlorobenzene	U		0.167	0.872	500	06/06/2022 04:01	WG1874574
Chlorodibromomethane	U		0.195	0.872	500	06/06/2022 04:01	WG1874574
Chloroethane	U	C3	0.872	4.36	500	06/06/2022 04:01	WG1874574
Chloroform	U		0.898	4.36	500	06/06/2022 04:01	WG1874574
Chloromethane	U		0.567	2.18	500	06/06/2022 04:01	WG1874574
2-Chlorotoluene	U		0.197	0.872	500	06/06/2022 04:01	WG1874574
4-Chlorotoluene	U		0.602	0.872	500	06/06/2022 04:01	WG1874574
1,2-Dibromo-3-Chloropropane	U		1.66	4.36	500	06/06/2022 04:01	WG1874574
1,2-Dibromoethane	U		0.218	0.872	500	06/06/2022 04:01	WG1874574
Dibromomethane	U		0.305	0.872	500	06/06/2022 04:01	WG1874574
1,2-Dichlorobenzene	U		0.371	0.872	500	06/06/2022 04:01	WG1874574
1,3-Dichlorobenzene	U		0.523	0.872	500	06/06/2022 04:01	WG1874574
1,4-Dichlorobenzene	U		0.724	0.872	500	06/06/2022 04:01	WG1874574
Dichlorodifluoromethane	U		0.249	4.36	500	06/06/2022 04:01	WG1874574
1,1-Dichloroethane	U		0.234	0.872	500	06/06/2022 04:01	WG1874574
1,2-Dichloroethane	U		0.392	0.872	500	06/06/2022 04:01	WG1874574
1,1-Dichloroethene	U		0.310	0.872	500	06/06/2022 04:01	WG1874574
cis-1,2-Dichloroethene	U		0.415	0.872	500	06/06/2022 04:01	WG1874574
trans-1,2-Dichloroethene	U		0.436	0.872	500	06/06/2022 04:01	WG1874574
1,2-Dichloropropane	U		0.143	0.872	500	06/06/2022 04:01	WG1874574
1,1-Dichloropropene	U		0.328	0.872	500	06/06/2022 04:01	WG1874574
1,3-Dichloropropane	U		0.197	0.872	500	06/06/2022 04:01	WG1874574
cis-1,3-Dichloropropene	U		0.371	0.872	500	06/06/2022 04:01	WG1874574
trans-1,3-Dichloropropene	U		0.589	0.872	500	06/06/2022 04:01	WG1874574
2,2-Dichloropropane	U		0.328	0.872	500	06/06/2022 04:01	WG1874574
Di-isopropyl ether	U		0.194	0.872	500	06/06/2022 04:01	WG1874574
Ethylbenzene	U		0.262	0.872	500	06/06/2022 04:01	WG1874574
Hexachloro-1,3-butadiene	U		0.298	0.872	500	06/06/2022 04:01	WG1874574
Isopropylbenzene	U		0.371	0.872	500	06/06/2022 04:01	WG1874574
p-Isopropyltoluene	U		0.178	0.872	500	06/06/2022 04:01	WG1874574
2-Butanone (MEK)	U		4.08	8.72	500	06/06/2022 04:01	WG1874574
Methylene Chloride	U		0.872	4.36	500	06/06/2022 04:01	WG1874574
4-Methyl-2-pentanone (MIBK)	U		0.828	8.72	500	06/06/2022 04:01	WG1874574

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.305	0.872	500	06/06/2022 04:01	WG1874574
Naphthalene	U	C3	4.34	4.36	500	06/06/2022 04:01	WG1874574
n-Propylbenzene	U		0.180	0.872	500	06/06/2022 04:01	WG1874574
Styrene	U		0.195	0.872	500	06/06/2022 04:01	WG1874574
1,1,1,2-Tetrachloroethane	U		0.258	0.872	500	06/06/2022 04:01	WG1874574
1,1,2,2-Tetrachloroethane	U		0.202	0.872	500	06/06/2022 04:01	WG1874574
1,1,2-Trichlorotrifluoroethane	U		0.371	0.872	500	06/06/2022 04:01	WG1874574
Tetrachloroethene	U		0.284	0.872	500	06/06/2022 04:01	WG1874574
Toluene	U		1.07	4.36	500	06/06/2022 04:01	WG1874574
1,2,3-Trichlorobenzene	U		0.267	0.872	500	06/06/2022 04:01	WG1874574
1,2,4-Trichlorobenzene	U		0.338	0.872	500	06/06/2022 04:01	WG1874574
1,1,1-Trichloroethane	U		0.323	0.872	500	06/06/2022 04:01	WG1874574
1,1,2-Trichloroethane	U		0.371	0.872	500	06/06/2022 04:01	WG1874574
Trichloroethene	U		0.174	0.872	500	06/06/2022 04:01	WG1874574
Trichlorofluoromethane	U		0.310	4.36	500	06/06/2022 04:01	WG1874574
1,2,3-Trichloropropane	U		0.213	2.18	500	06/06/2022 04:01	WG1874574
1,2,4-Trimethylbenzene	0.309	BJ	0.185	0.872	500	06/06/2022 04:01	WG1874574
1,2,3-Trimethylbenzene	U		0.249	0.872	500	06/06/2022 04:01	WG1874574
Vinyl chloride	U		0.197	0.872	500	06/06/2022 04:01	WG1874574
1,3,5-Trimethylbenzene	U		0.232	0.872	500	06/06/2022 04:01	WG1874574
Xylenes, Total	1.42	J	0.436	2.62	500	06/06/2022 04:01	WG1874574
(S) Toluene-d8	109			75.0-131		06/06/2022 04:01	WG1874574
(S) 4-Bromofluorobenzene	105			67.0-138		06/06/2022 04:01	WG1874574
(S) 1,2-Dichloroethane-d4	101			70.0-130		06/06/2022 04:01	WG1874574



Sample Narrative:

L1498453-02 WG1874574: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	497		116	267	1	06/04/2022 23:49	WG1873377
AK103 RRO C25-C36	864		89.0	267	1	06/04/2022 23:49	WG1873377
(S) o-Terphenyl	97.8			50.0-150		06/04/2022 23:49	WG1873377
(S) n-Triacontane d62	91.6			50.0-150		06/04/2022 23:49	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00307	0.00802	1	06/06/2022 19:47	WG1873765
Acenaphthene	U		0.00279	0.00802	1	06/06/2022 19:47	WG1873765
Acenaphthylene	U		0.00289	0.00802	1	06/06/2022 19:47	WG1873765
Benzo(a)anthracene	0.0200		0.00231	0.00802	1	06/06/2022 19:47	WG1873765
Benzo(a)pyrene	0.0122		0.00239	0.00802	1	06/06/2022 19:47	WG1873765
Benzo(b)fluoranthene	0.00960		0.00204	0.00802	1	06/06/2022 19:47	WG1873765
Benzo(g,h,i)perylene	U		0.00236	0.00802	1	06/06/2022 19:47	WG1873765
Benzo(k)fluoranthene	U		0.00287	0.00802	1	06/06/2022 19:47	WG1873765
Chrysene	0.0303		0.00310	0.00802	1	06/06/2022 19:47	WG1873765
Dibenz(a,h)anthracene	U		0.00230	0.00802	1	06/06/2022 19:47	WG1873765
Fluoranthene	0.0155		0.00303	0.00802	1	06/06/2022 19:47	WG1873765
Fluorene	U		0.00274	0.00802	1	06/06/2022 19:47	WG1873765
Indeno(1,2,3-cd)pyrene	U		0.00242	0.00802	1	06/06/2022 19:47	WG1873765
Naphthalene	0.00596	J	0.00545	0.0267	1	06/06/2022 19:47	WG1873765
Phenanthrene	U		0.00309	0.00802	1	06/06/2022 19:47	WG1873765
Pyrene	0.0557		0.00267	0.00802	1	06/06/2022 19:47	WG1873765

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	0.0223	J	0.00600	0.0267	1	06/06/2022 19:47	WG1873765
2-Methylnaphthalene	0.0129	J	0.00570	0.0267	1	06/06/2022 19:47	WG1873765
2-Chloronaphthalene	U		0.00623	0.0267	1	06/06/2022 19:47	WG1873765
(S) Nitrobenzene-d5	70.5			14.0-149		06/06/2022 19:47	WG1873765
(S) 2-Fluorobiphenyl	59.9			34.0-125		06/06/2022 19:47	WG1873765
(S) p-Terphenyl-d14	71.5			23.0-120		06/06/2022 19:47	WG1873765

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	06/02/2022 17:03	WG1872618

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	8.85		1.07	2.83	1	06/03/2022 17:56	WG1873970
(S) a,a,a-Trifluorotoluene(FID)	85.7			50.0-150		06/03/2022 17:56	WG1873970

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.665	1.61	25	06/06/2022 06:24	WG1874574
Acrylonitrile	U		0.0649	0.321	25	06/06/2022 06:24	WG1874574
Benzene	0.0435		0.0120	0.0321	25	06/06/2022 06:24	WG1874574
Bromobenzene	U		0.00884	0.0321	25	06/06/2022 06:24	WG1874574
Bromodichloromethane	U		0.0233	0.0321	25	06/06/2022 06:24	WG1874574
Bromoform	U		0.0136	0.0321	25	06/06/2022 06:24	WG1874574
Bromomethane	U		0.0376	0.161	25	06/06/2022 06:24	WG1874574
n-Butylbenzene	U		0.00829	0.0321	25	06/06/2022 06:24	WG1874574
sec-Butylbenzene	U		0.00646	0.0321	25	06/06/2022 06:24	WG1874574
tert-Butylbenzene	U		0.00662	0.0321	25	06/06/2022 06:24	WG1874574
Carbon tetrachloride	U		0.00796	0.0321	25	06/06/2022 06:24	WG1874574
Chlorobenzene	U		0.00617	0.0321	25	06/06/2022 06:24	WG1874574
Chlorodibromomethane	U		0.00719	0.0321	25	06/06/2022 06:24	WG1874574
Chloroethane	U	<u>C3</u>	0.0321	0.161	25	06/06/2022 06:24	WG1874574
Chloroform	U		0.0331	0.161	25	06/06/2022 06:24	WG1874574
Chloromethane	U		0.0209	0.0803	25	06/06/2022 06:24	WG1874574
2-Chlorotoluene	U		0.00723	0.0321	25	06/06/2022 06:24	WG1874574
4-Chlorotoluene	U		0.0222	0.0321	25	06/06/2022 06:24	WG1874574
1,2-Dibromo-3-Chloropropane	U		0.0610	0.161	25	06/06/2022 06:24	WG1874574
1,2-Dibromoethane	U		0.00803	0.0321	25	06/06/2022 06:24	WG1874574
Dibromomethane	U		0.0112	0.0321	25	06/06/2022 06:24	WG1874574
1,2-Dichlorobenzene	U		0.0136	0.0321	25	06/06/2022 06:24	WG1874574
1,3-Dichlorobenzene	U		0.0193	0.0321	25	06/06/2022 06:24	WG1874574
1,4-Dichlorobenzene	U		0.0267	0.0321	25	06/06/2022 06:24	WG1874574
Dichlorodifluoromethane	U		0.00921	0.161	25	06/06/2022 06:24	WG1874574
1,1-Dichloroethane	U		0.00861	0.0321	25	06/06/2022 06:24	WG1874574
1,2-Dichloroethane	U		0.0145	0.0321	25	06/06/2022 06:24	WG1874574
1,1-Dichloroethene	U		0.0114	0.0321	25	06/06/2022 06:24	WG1874574
cis-1,2-Dichloroethene	U		0.0153	0.0321	25	06/06/2022 06:24	WG1874574
trans-1,2-Dichloroethene	U		0.0161	0.0321	25	06/06/2022 06:24	WG1874574
1,2-Dichloropropane	U		0.00527	0.0321	25	06/06/2022 06:24	WG1874574
1,1-Dichloropropene	U		0.0120	0.0321	25	06/06/2022 06:24	WG1874574
1,3-Dichloropropane	U		0.00723	0.0321	25	06/06/2022 06:24	WG1874574
cis-1,3-Dichloropropene	U		0.0136	0.0321	25	06/06/2022 06:24	WG1874574
trans-1,3-Dichloropropene	U		0.0217	0.0321	25	06/06/2022 06:24	WG1874574
2,2-Dichloropropane	U		0.0120	0.0321	25	06/06/2022 06:24	WG1874574
Di-isopropyl ether	U		0.00710	0.0321	25	06/06/2022 06:24	WG1874574
Ethylbenzene	0.0687		0.00963	0.0321	25	06/06/2022 06:24	WG1874574
Hexachloro-1,3-butadiene	U		0.0110	0.0321	25	06/06/2022 06:24	WG1874574
Isopropylbenzene	0.0480		0.0136	0.0321	25	06/06/2022 06:24	WG1874574
p-Isopropyltoluene	0.00967	<u>J</u>	0.00655	0.0321	25	06/06/2022 06:24	WG1874574
2-Butanone (MEK)	U		0.150	0.321	25	06/06/2022 06:24	WG1874574
Methylene Chloride	U		0.0321	0.161	25	06/06/2022 06:24	WG1874574
4-Methyl-2-pentanone (MIBK)	U		0.0306	0.321	25	06/06/2022 06:24	WG1874574



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0112	0.0321	25	06/06/2022 06:24	WG1874574
Naphthalene	U	<u>C3</u>	0.161	0.161	25	06/06/2022 06:24	WG1874574
n-Propylbenzene	0.0195	<u>J</u>	0.00662	0.0321	25	06/06/2022 06:24	WG1874574
Styrene	U		0.00717	0.0321	25	06/06/2022 06:24	WG1874574
1,1,1,2-Tetrachloroethane	U		0.00951	0.0321	25	06/06/2022 06:24	WG1874574
1,1,2,2-Tetrachloroethane	U		0.00741	0.0321	25	06/06/2022 06:24	WG1874574
1,1,2-Trichlorotrifluoroethane	U		0.0137	0.0321	25	06/06/2022 06:24	WG1874574
Tetrachloroethene	U		0.0104	0.0321	25	06/06/2022 06:24	WG1874574
Toluene	U		0.0396	0.161	25	06/06/2022 06:24	WG1874574
1,2,3-Trichlorobenzene	U		0.00983	0.0321	25	06/06/2022 06:24	WG1874574
1,2,4-Trichlorobenzene	U		0.0125	0.0321	25	06/06/2022 06:24	WG1874574
1,1,1-Trichloroethane	U		0.0119	0.0321	25	06/06/2022 06:24	WG1874574
1,1,2-Trichloroethane	U		0.0136	0.0321	25	06/06/2022 06:24	WG1874574
Trichloroethene	U		0.00642	0.0321	25	06/06/2022 06:24	WG1874574
Trichlorofluoromethane	U		0.0114	0.161	25	06/06/2022 06:24	WG1874574
1,2,3-Trichloropropane	U		0.00784	0.0803	25	06/06/2022 06:24	WG1874574
1,2,4-Trimethylbenzene	0.159		0.00678	0.0321	25	06/06/2022 06:24	WG1874574
1,2,3-Trimethylbenzene	0.0778		0.00921	0.0321	25	06/06/2022 06:24	WG1874574
Vinyl chloride	U		0.00726	0.0321	25	06/06/2022 06:24	WG1874574
1,3,5-Trimethylbenzene	0.0167	<u>J</u>	0.00854	0.0321	25	06/06/2022 06:24	WG1874574
Xylenes, Total	0.258		0.0161	0.0963	25	06/06/2022 06:24	WG1874574
(S) Toluene-d8	104			75.0-131		06/06/2022 06:24	WG1874574
(S) 4-Bromofluorobenzene	113			67.0-138		06/06/2022 06:24	WG1874574
(S) 1,2-Dichloroethane-d4	93.3			70.0-130		06/06/2022 06:24	WG1874574



Sample Narrative:

L1498453-03 WG1874574: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	243		98.0	226	1	06/04/2022 21:42	WG1873377
AK103 RRO C25-C36	81.0	<u>J</u>	75.4	226	1	06/04/2022 21:42	WG1873377
(S) o-Terphenyl	100			50.0-150		06/04/2022 21:42	WG1873377
(S) n-Triacontane d62	94.0			50.0-150		06/04/2022 21:42	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00260	0.00679	1	06/06/2022 18:37	WG1873765
Acenaphthene	0.00584	<u>J</u>	0.00236	0.00679	1	06/06/2022 18:37	WG1873765
Acenaphthylene	U		0.00244	0.00679	1	06/06/2022 18:37	WG1873765
Benzo(a)anthracene	U		0.00196	0.00679	1	06/06/2022 18:37	WG1873765
Benzo(a)pyrene	U		0.00203	0.00679	1	06/06/2022 18:37	WG1873765
Benzo(b)fluoranthene	U		0.00173	0.00679	1	06/06/2022 18:37	WG1873765
Benzo(g,h,i)perylene	U		0.00200	0.00679	1	06/06/2022 18:37	WG1873765
Benzo(k)fluoranthene	U		0.00243	0.00679	1	06/06/2022 18:37	WG1873765
Chrysene	U		0.00262	0.00679	1	06/06/2022 18:37	WG1873765
Dibenz(a,h)anthracene	U		0.00195	0.00679	1	06/06/2022 18:37	WG1873765
Fluoranthene	U		0.00257	0.00679	1	06/06/2022 18:37	WG1873765
Fluorene	0.0137		0.00232	0.00679	1	06/06/2022 18:37	WG1873765
Indeno(1,2,3-cd)pyrene	U		0.00205	0.00679	1	06/06/2022 18:37	WG1873765
Naphthalene	0.0109	<u>J</u>	0.00462	0.0226	1	06/06/2022 18:37	WG1873765
Phenanthrene	0.0138		0.00261	0.00679	1	06/06/2022 18:37	WG1873765
Pyrene	0.00479	<u>J</u>	0.00226	0.00679	1	06/06/2022 18:37	WG1873765

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	0.0304		0.00508	0.0226	1	06/06/2022 18:37	WG1873765
2-Methylnaphthalene	0.0363		0.00483	0.0226	1	06/06/2022 18:37	WG1873765
2-Chloronaphthalene	U		0.00527	0.0226	1	06/06/2022 18:37	WG1873765
<i>(S)</i> Nitrobenzene-d5	75.5			14.0-149		06/06/2022 18:37	WG1873765
<i>(S)</i> 2-Fluorobiphenyl	83.6			34.0-125		06/06/2022 18:37	WG1873765
<i>(S)</i> p-Terphenyl-d14	97.6			23.0-120		06/06/2022 18:37	WG1873765

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

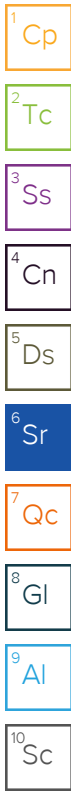
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	80.7		1	06/02/2022 17:03	WG1872618

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.24	3.26	1.05	06/03/2022 03:41	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	83.5			50.0-150		06/03/2022 03:41	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.836	2.02	27.8	06/04/2022 01:25	WG1874219
Acrylonitrile	U		0.0817	0.404	27.8	06/04/2022 01:25	WG1874219
Benzene	U		0.0151	0.0404	27.8	06/04/2022 01:25	WG1874219
Bromobenzene	U		0.0111	0.0404	27.8	06/04/2022 01:25	WG1874219
Bromodichloromethane	U		0.0294	0.0404	27.8	06/04/2022 01:25	WG1874219
Bromoform	U		0.0172	0.0404	27.8	06/04/2022 01:25	WG1874219
Bromomethane	U	C3	0.0473	0.202	27.8	06/04/2022 01:25	WG1874219
n-Butylbenzene	U		0.0104	0.0404	27.8	06/04/2022 01:25	WG1874219
sec-Butylbenzene	U		0.00813	0.0404	27.8	06/04/2022 01:25	WG1874219
tert-Butylbenzene	U		0.00833	0.0404	27.8	06/04/2022 01:25	WG1874219
Carbon tetrachloride	U		0.0100	0.0404	27.8	06/04/2022 01:25	WG1874219
Chlorobenzene	U		0.00777	0.0404	27.8	06/04/2022 01:25	WG1874219
Chlorodibromomethane	U		0.00906	0.0404	27.8	06/04/2022 01:25	WG1874219
Chloroethane	U		0.0404	0.202	27.8	06/04/2022 01:25	WG1874219
Chloroform	U		0.0416	0.202	27.8	06/04/2022 01:25	WG1874219
Chloromethane	U		0.0263	0.101	27.8	06/04/2022 01:25	WG1874219
2-Chlorotoluene	U		0.00910	0.0404	27.8	06/04/2022 01:25	WG1874219
4-Chlorotoluene	U		0.0279	0.0404	27.8	06/04/2022 01:25	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0768	0.202	27.8	06/04/2022 01:25	WG1874219
1,2-Dibromoethane	U		0.0101	0.0404	27.8	06/04/2022 01:25	WG1874219
Dibromomethane	U		0.0142	0.0404	27.8	06/04/2022 01:25	WG1874219
1,2-Dichlorobenzene	U		0.0172	0.0404	27.8	06/04/2022 01:25	WG1874219
1,3-Dichlorobenzene	U		0.0243	0.0404	27.8	06/04/2022 01:25	WG1874219
1,4-Dichlorobenzene	U		0.0336	0.0404	27.8	06/04/2022 01:25	WG1874219
Dichlorodifluoromethane	U		0.0116	0.202	27.8	06/04/2022 01:25	WG1874219
1,1-Dichloroethane	U		0.0108	0.0404	27.8	06/04/2022 01:25	WG1874219
1,2-Dichloroethane	U		0.0182	0.0404	27.8	06/04/2022 01:25	WG1874219
1,1-Dichloroethene	U		0.0144	0.0404	27.8	06/04/2022 01:25	WG1874219
cis-1,2-Dichloroethene	U		0.0192	0.0404	27.8	06/04/2022 01:25	WG1874219
trans-1,2-Dichloroethene	U		0.0202	0.0404	27.8	06/04/2022 01:25	WG1874219
1,2-Dichloropropane	U		0.00663	0.0404	27.8	06/04/2022 01:25	WG1874219
1,1-Dichloropropene	U		0.0151	0.0404	27.8	06/04/2022 01:25	WG1874219
1,3-Dichloropropane	U		0.00910	0.0404	27.8	06/04/2022 01:25	WG1874219
cis-1,3-Dichloropropene	U		0.0172	0.0404	27.8	06/04/2022 01:25	WG1874219
trans-1,3-Dichloropropene	U		0.0273	0.0404	27.8	06/04/2022 01:25	WG1874219
2,2-Dichloropropane	U		0.0151	0.0404	27.8	06/04/2022 01:25	WG1874219
Di-isopropyl ether	U		0.00893	0.0404	27.8	06/04/2022 01:25	WG1874219
Ethylbenzene	U		0.0121	0.0404	27.8	06/04/2022 01:25	WG1874219
Hexachloro-1,3-butadiene	U		0.0138	0.0404	27.8	06/04/2022 01:25	WG1874219
Isopropylbenzene	U		0.0172	0.0404	27.8	06/04/2022 01:25	WG1874219
p-Isopropyltoluene	U		0.00825	0.0404	27.8	06/04/2022 01:25	WG1874219
2-Butanone (MEK)	U		0.189	0.404	27.8	06/04/2022 01:25	WG1874219
Methylene Chloride	U		0.0404	0.202	27.8	06/04/2022 01:25	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0384	0.404	27.8	06/04/2022 01:25	WG1874219



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0142	0.0404	27.8	06/04/2022 01:25	WG1874219
Naphthalene	U	<u>C3</u>	0.201	0.202	27.8	06/04/2022 01:25	WG1874219
n-Propylbenzene	0.0573		0.00833	0.0404	27.8	06/04/2022 01:25	WG1874219
Styrene	U		0.00902	0.0404	27.8	06/04/2022 01:25	WG1874219
1,1,1,2-Tetrachloroethane	U		0.0120	0.0404	27.8	06/04/2022 01:25	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00934	0.0404	27.8	06/04/2022 01:25	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0172	0.0404	27.8	06/04/2022 01:25	WG1874219
Tetrachloroethene	U		0.0131	0.0404	27.8	06/04/2022 01:25	WG1874219
Toluene	U		0.0497	0.202	27.8	06/04/2022 01:25	WG1874219
1,2,3-Trichlorobenzene	U		0.0124	0.0404	27.8	06/04/2022 01:25	WG1874219
1,2,4-Trichlorobenzene	U		0.0157	0.0404	27.8	06/04/2022 01:25	WG1874219
1,1,1-Trichloroethane	U		0.0150	0.0404	27.8	06/04/2022 01:25	WG1874219
1,1,2-Trichloroethane	U		0.0172	0.0404	27.8	06/04/2022 01:25	WG1874219
Trichloroethene	U		0.00809	0.0404	27.8	06/04/2022 01:25	WG1874219
Trichlorofluoromethane	U		0.0144	0.202	27.8	06/04/2022 01:25	WG1874219
1,2,3-Trichloropropane	U		0.00986	0.101	27.8	06/04/2022 01:25	WG1874219
1,2,4-Trimethylbenzene	U		0.00854	0.0404	27.8	06/04/2022 01:25	WG1874219
1,2,3-Trimethylbenzene	U		0.0116	0.0404	27.8	06/04/2022 01:25	WG1874219
Vinyl chloride	U		0.00913	0.0404	27.8	06/04/2022 01:25	WG1874219
1,3,5-Trimethylbenzene	U		0.0107	0.0404	27.8	06/04/2022 01:25	WG1874219
Xylenes, Total	0.0316	<u>J</u>	0.0202	0.121	27.8	06/04/2022 01:25	WG1874219
(S) Toluene-d8	103			75.0-131		06/04/2022 01:25	WG1874219
(S) 4-Bromofluorobenzene	93.8			67.0-138		06/04/2022 01:25	WG1874219
(S) 1,2-Dichloroethane-d4	103			70.0-130		06/04/2022 01:25	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	114	<u>J</u>	107	248	1	06/05/2022 01:18	WG1873377
AK103 RRO C25-C36	1360		82.5	248	1	06/05/2022 01:18	WG1873377
(S) o-Terphenyl	98.5			50.0-150		06/05/2022 01:18	WG1873377
(S) n-Triacontane d62	83.7			50.0-150		06/05/2022 01:18	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00285	0.00743	1	06/06/2022 20:04	WG1873765
Acenaphthene	U		0.00259	0.00743	1	06/06/2022 20:04	WG1873765
Acenaphthylene	U		0.00268	0.00743	1	06/06/2022 20:04	WG1873765
Benzo(a)anthracene	0.00783		0.00214	0.00743	1	06/06/2022 20:04	WG1873765
Benzo(a)pyrene	0.00588	<u>J</u>	0.00222	0.00743	1	06/06/2022 20:04	WG1873765
Benzo(b)fluoranthene	0.0124		0.00190	0.00743	1	06/06/2022 20:04	WG1873765
Benzo(g,h,i)perylene	U		0.00219	0.00743	1	06/06/2022 20:04	WG1873765
Benzo(k)fluoranthene	0.00323	<u>J</u>	0.00266	0.00743	1	06/06/2022 20:04	WG1873765
Chrysene	0.00808		0.00287	0.00743	1	06/06/2022 20:04	WG1873765
Dibenz(a,h)anthracene	U		0.00213	0.00743	1	06/06/2022 20:04	WG1873765
Fluoranthene	0.0197		0.00281	0.00743	1	06/06/2022 20:04	WG1873765
Fluorene	0.0133		0.00254	0.00743	1	06/06/2022 20:04	WG1873765
Indeno(1,2,3-cd)pyrene	0.00763		0.00224	0.00743	1	06/06/2022 20:04	WG1873765
Naphthalene	U		0.00505	0.0248	1	06/06/2022 20:04	WG1873765
Phenanthrene	0.0152		0.00286	0.00743	1	06/06/2022 20:04	WG1873765
Pyrene	0.0228		0.00248	0.00743	1	06/06/2022 20:04	WG1873765
1-Methylnaphthalene	U		0.00556	0.0248	1	06/06/2022 20:04	WG1873765
2-Methylnaphthalene	U		0.00529	0.0248	1	06/06/2022 20:04	WG1873765
2-Chloronaphthalene	U		0.00577	0.0248	1	06/06/2022 20:04	WG1873765

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	62.8			14.0-149		06/06/2022 20:04	WG1873765
(S) 2-Fluorobiphenyl	66.3			34.0-125		06/06/2022 20:04	WG1873765
(S) p-Terphenyl-d14	75.3			23.0-120		06/06/2022 20:04	WG1873765

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	90.9		1	06/02/2022 17:03	WG1872618

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	620		45.6	120	43.6	06/03/2022 08:08	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	78.6			50.0-150		06/03/2022 08:08	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	U	J4	49.8	120	2000	06/04/2022 06:38	WG1874219
Acrylonitrile	U		4.86	24.1	2000	06/04/2022 06:38	WG1874219
Benzene	U		0.902	2.41	2000	06/04/2022 06:38	WG1874219
Bromobenzene	U		0.661	2.41	2000	06/04/2022 06:38	WG1874219
Bromodichloromethane	U		1.74	2.41	2000	06/04/2022 06:38	WG1874219
Bromoform	U		1.02	2.41	2000	06/04/2022 06:38	WG1874219
Bromomethane	U	C3	2.81	12.0	2000	06/04/2022 06:38	WG1874219
n-Butylbenzene	11.8		0.621	2.41	2000	06/04/2022 06:38	WG1874219
sec-Butylbenzene	6.57		0.483	2.41	2000	06/04/2022 06:38	WG1874219
tert-Butylbenzene	U		0.495	2.41	2000	06/04/2022 06:38	WG1874219
Carbon tetrachloride	U		0.597	2.41	2000	06/04/2022 06:38	WG1874219
Chlorobenzene	U		0.462	2.41	2000	06/04/2022 06:38	WG1874219
Chlorodibromomethane	U		0.539	2.41	2000	06/04/2022 06:38	WG1874219
Chloroethane	U		2.41	12.0	2000	06/04/2022 06:38	WG1874219
Chloroform	U		2.48	12.0	2000	06/04/2022 06:38	WG1874219
Chloromethane	U		1.56	6.01	2000	06/04/2022 06:38	WG1874219
2-Chlorotoluene	U		0.541	2.41	2000	06/04/2022 06:38	WG1874219
4-Chlorotoluene	U		1.66	2.41	2000	06/04/2022 06:38	WG1874219
1,2-Dibromo-3-Chloropropane	U		4.57	12.0	2000	06/04/2022 06:38	WG1874219
1,2-Dibromoethane	U		0.601	2.41	2000	06/04/2022 06:38	WG1874219
Dibromomethane	U		0.842	2.41	2000	06/04/2022 06:38	WG1874219
1,2-Dichlorobenzene	U		1.02	2.41	2000	06/04/2022 06:38	WG1874219
1,3-Dichlorobenzene	U		1.44	2.41	2000	06/04/2022 06:38	WG1874219
1,4-Dichlorobenzene	U		2.00	2.41	2000	06/04/2022 06:38	WG1874219
Dichlorodifluoromethane	U		0.690	12.0	2000	06/04/2022 06:38	WG1874219
1,1-Dichloroethane	U		0.645	2.41	2000	06/04/2022 06:38	WG1874219
1,2-Dichloroethane	U		1.08	2.41	2000	06/04/2022 06:38	WG1874219
1,1-Dichloroethene	U		0.854	2.41	2000	06/04/2022 06:38	WG1874219
cis-1,2-Dichloroethene	U		1.14	2.41	2000	06/04/2022 06:38	WG1874219
trans-1,2-Dichloroethene	U		1.20	2.41	2000	06/04/2022 06:38	WG1874219
1,2-Dichloropropane	U		0.394	2.41	2000	06/04/2022 06:38	WG1874219
1,1-Dichloropropene	U		0.902	2.41	2000	06/04/2022 06:38	WG1874219
1,3-Dichloropropane	U		0.541	2.41	2000	06/04/2022 06:38	WG1874219
cis-1,3-Dichloropropene	U		1.02	2.41	2000	06/04/2022 06:38	WG1874219
trans-1,3-Dichloropropene	U		1.62	2.41	2000	06/04/2022 06:38	WG1874219
2,2-Dichloropropane	U		0.902	2.41	2000	06/04/2022 06:38	WG1874219
Di-isopropyl ether	U		0.532	2.41	2000	06/04/2022 06:38	WG1874219
Ethylbenzene	3.66		0.722	2.41	2000	06/04/2022 06:38	WG1874219
Hexachloro-1,3-butadiene	U		0.823	2.41	2000	06/04/2022 06:38	WG1874219
Isopropylbenzene	3.66		1.02	2.41	2000	06/04/2022 06:38	WG1874219
p-Isopropyltoluene	4.40		0.491	2.41	2000	06/04/2022 06:38	WG1874219
2-Butanone (MEK)	U		11.3	24.1	2000	06/04/2022 06:38	WG1874219
Methylene Chloride	U		2.41	12.0	2000	06/04/2022 06:38	WG1874219
4-Methyl-2-pentanone (MIBK)	5.32	J	2.29	24.1	2000	06/04/2022 06:38	WG1874219

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.842	2.41	2000	06/04/2022 06:38	WG1874219
Naphthalene	32.1	C3	12.0	12.0	2000	06/04/2022 06:38	WG1874219
n-Propylbenzene	10.3		0.495	2.41	2000	06/04/2022 06:38	WG1874219
Styrene	U		0.536	2.41	2000	06/04/2022 06:38	WG1874219
1,1,1,2-Tetrachloroethane	U		0.712	2.41	2000	06/04/2022 06:38	WG1874219
1,1,2,2-Tetrachloroethane	U		0.556	2.41	2000	06/04/2022 06:38	WG1874219
1,1,2-Trichlorotrifluoroethane	U		1.02	2.41	2000	06/04/2022 06:38	WG1874219
Tetrachloroethene	U		0.782	2.41	2000	06/04/2022 06:38	WG1874219
Toluene	U		2.96	12.0	2000	06/04/2022 06:38	WG1874219
1,2,3-Trichlorobenzene	U		0.736	2.41	2000	06/04/2022 06:38	WG1874219
1,2,4-Trichlorobenzene	U		0.933	2.41	2000	06/04/2022 06:38	WG1874219
1,1,1-Trichloroethane	U		0.890	2.41	2000	06/04/2022 06:38	WG1874219
1,1,2-Trichloroethane	2.09	U	1.02	2.41	2000	06/04/2022 06:38	WG1874219
Trichloroethene	0.486	U	0.481	2.41	2000	06/04/2022 06:38	WG1874219
Trichlorofluoromethane	U		0.856	12.0	2000	06/04/2022 06:38	WG1874219
1,2,3-Trichloropropane	U		0.587	6.01	2000	06/04/2022 06:38	WG1874219
1,2,4-Trimethylbenzene	50.5		0.508	2.41	2000	06/04/2022 06:38	WG1874219
1,2,3-Trimethylbenzene	21.0		0.690	2.41	2000	06/04/2022 06:38	WG1874219
Vinyl chloride	U		0.544	2.41	2000	06/04/2022 06:38	WG1874219
1,3,5-Trimethylbenzene	16.0		0.640	2.41	2000	06/04/2022 06:38	WG1874219
Xylenes, Total	28.6		1.20	7.22	2000	06/04/2022 06:38	WG1874219
(S) Toluene-d8	109			75.0-131		06/04/2022 06:38	WG1874219
(S) 4-Bromofluorobenzene	103			67.0-138		06/04/2022 06:38	WG1874219
(S) 1,2-Dichloroethane-d4	110			70.0-130		06/04/2022 06:38	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	4220		95.3	220	1	06/04/2022 22:45	WG1873377
AK103 RRO C25-C36	121	U	73.3	220	1	06/04/2022 22:45	WG1873377
(S) o-Terphenyl	101			50.0-150		06/04/2022 22:45	WG1873377
(S) n-Triacontane d62	94.9			50.0-150		06/04/2022 22:45	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00253	0.00660	1	06/06/2022 18:54	WG1873765
Acenaphthene	0.737		0.00230	0.00660	1	06/06/2022 18:54	WG1873765
Acenaphthylene	U		0.00238	0.00660	1	06/06/2022 18:54	WG1873765
Benzo(a)anthracene	0.00284	U	0.00190	0.00660	1	06/06/2022 18:54	WG1873765
Benzo(a)pyrene	U		0.00197	0.00660	1	06/06/2022 18:54	WG1873765
Benzo(b)fluoranthene	0.00230	U	0.00168	0.00660	1	06/06/2022 18:54	WG1873765
Benzo(g,h,i)perylene	U		0.00195	0.00660	1	06/06/2022 18:54	WG1873765
Benzo(k)fluoranthene	U		0.00237	0.00660	1	06/06/2022 18:54	WG1873765
Chrysene	U		0.00255	0.00660	1	06/06/2022 18:54	WG1873765
Dibenz(a,h)anthracene	U		0.00189	0.00660	1	06/06/2022 18:54	WG1873765
Fluoranthene	0.0106		0.00250	0.00660	1	06/06/2022 18:54	WG1873765
Fluorene	1.67		0.00226	0.00660	1	06/06/2022 18:54	WG1873765
Indeno(1,2,3-cd)pyrene	U		0.00199	0.00660	1	06/06/2022 18:54	WG1873765
Naphthalene	23.6		0.0898	0.440	20	06/07/2022 18:05	WG1873765
Phenanthrene	0.511		0.00254	0.00660	1	06/06/2022 18:54	WG1873765
Pyrene	0.00986		0.00220	0.00660	1	06/06/2022 18:54	WG1873765
1-Methylnaphthalene	30.5		0.0988	0.440	20	06/07/2022 18:05	WG1873765
2-Methylnaphthalene	42.3		0.0940	0.440	20	06/07/2022 18:05	WG1873765
2-Chloronaphthalene	U		0.00513	0.0220	1	06/06/2022 18:54	WG1873765

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	2440	<u>J1</u>		14.0-149		06/06/2022 18:54	WG1873765
(S) Nitrobenzene-d5	3070	<u>J7</u>		14.0-149		06/07/2022 18:05	WG1873765
(S) 2-Fluorobiphenyl	109	<u>J7</u>		34.0-125		06/07/2022 18:05	WG1873765
(S) 2-Fluorobiphenyl	101			34.0-125		06/06/2022 18:54	WG1873765
(S) p-Terphenyl-d14	88.6			23.0-120		06/06/2022 18:54	WG1873765
(S) p-Terphenyl-d14	103	<u>J7</u>		23.0-120		06/07/2022 18:05	WG1873765

Sample Narrative:

L1498453-05 WG1873765: Surrogate failure due to matrix interference

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

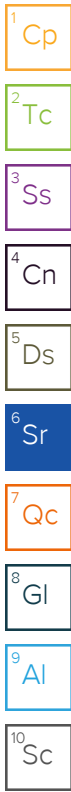
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	71.0		1	06/02/2022 17:03	WG1872618

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.34	3.52	1	06/03/2022 04:08	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	84.2			50.0-150		06/03/2022 04:08	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.981	2.37	25	06/04/2022 01:44	WG1874219
Acrylonitrile	U		0.0957	0.474	25	06/04/2022 01:44	WG1874219
Benzene	U		0.0178	0.0474	25	06/04/2022 01:44	WG1874219
Bromobenzene	U		0.0130	0.0474	25	06/04/2022 01:44	WG1874219
Bromodichloromethane	U		0.0343	0.0474	25	06/04/2022 01:44	WG1874219
Bromoform	U		0.0201	0.0474	25	06/04/2022 01:44	WG1874219
Bromomethane	U	C3	0.0555	0.237	25	06/04/2022 01:44	WG1874219
n-Butylbenzene	U		0.0122	0.0474	25	06/04/2022 01:44	WG1874219
sec-Butylbenzene	U		0.00953	0.0474	25	06/04/2022 01:44	WG1874219
tert-Butylbenzene	U		0.00976	0.0474	25	06/04/2022 01:44	WG1874219
Carbon tetrachloride	U		0.0117	0.0474	25	06/04/2022 01:44	WG1874219
Chlorobenzene	U		0.00909	0.0474	25	06/04/2022 01:44	WG1874219
Chlorodibromomethane	U		0.0106	0.0474	25	06/04/2022 01:44	WG1874219
Chloroethane	U		0.0474	0.237	25	06/04/2022 01:44	WG1874219
Chloroform	U		0.0489	0.237	25	06/04/2022 01:44	WG1874219
Chloromethane	U		0.0309	0.118	25	06/04/2022 01:44	WG1874219
2-Chlorotoluene	U		0.0107	0.0474	25	06/04/2022 01:44	WG1874219
4-Chlorotoluene	U		0.0328	0.0474	25	06/04/2022 01:44	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0900	0.237	25	06/04/2022 01:44	WG1874219
1,2-Dibromoethane	U		0.0118	0.0474	25	06/04/2022 01:44	WG1874219
Dibromomethane	U		0.0166	0.0474	25	06/04/2022 01:44	WG1874219
1,2-Dichlorobenzene	U		0.0201	0.0474	25	06/04/2022 01:44	WG1874219
1,3-Dichlorobenzene	U		0.0284	0.0474	25	06/04/2022 01:44	WG1874219
1,4-Dichlorobenzene	U		0.0394	0.0474	25	06/04/2022 01:44	WG1874219
Dichlorodifluoromethane	U		0.0136	0.237	25	06/04/2022 01:44	WG1874219
1,1-Dichloroethane	U		0.0127	0.0474	25	06/04/2022 01:44	WG1874219
1,2-Dichloroethane	U		0.0214	0.0474	25	06/04/2022 01:44	WG1874219
1,1-Dichloroethene	U		0.0168	0.0474	25	06/04/2022 01:44	WG1874219
cis-1,2-Dichloroethene	U		0.0225	0.0474	25	06/04/2022 01:44	WG1874219
trans-1,2-Dichloroethene	U		0.0237	0.0474	25	06/04/2022 01:44	WG1874219
1,2-Dichloropropane	U		0.00777	0.0474	25	06/04/2022 01:44	WG1874219
1,1-Dichloropropene	U		0.0178	0.0474	25	06/04/2022 01:44	WG1874219
1,3-Dichloropropane	U		0.0107	0.0474	25	06/04/2022 01:44	WG1874219
cis-1,3-Dichloropropene	U		0.0201	0.0474	25	06/04/2022 01:44	WG1874219
trans-1,3-Dichloropropene	U		0.0320	0.0474	25	06/04/2022 01:44	WG1874219
2,2-Dichloropropane	U		0.0178	0.0474	25	06/04/2022 01:44	WG1874219
Di-isopropyl ether	U		0.0105	0.0474	25	06/04/2022 01:44	WG1874219
Ethylbenzene	U		0.0142	0.0474	25	06/04/2022 01:44	WG1874219
Hexachloro-1,3-butadiene	U		0.0162	0.0474	25	06/04/2022 01:44	WG1874219
Isopropylbenzene	U		0.0201	0.0474	25	06/04/2022 01:44	WG1874219
p-Isopropyltoluene	U		0.00966	0.0474	25	06/04/2022 01:44	WG1874219
2-Butanone (MEK)	U		0.222	0.474	25	06/04/2022 01:44	WG1874219
Methylene Chloride	U		0.0474	0.237	25	06/04/2022 01:44	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0451	0.474	25	06/04/2022 01:44	WG1874219



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0166	0.0474	25	06/04/2022 01:44	WG1874219
Naphthalene	U	<u>C3</u>	0.237	0.237	25	06/04/2022 01:44	WG1874219
n-Propylbenzene	U		0.00976	0.0474	25	06/04/2022 01:44	WG1874219
Styrene	U		0.0106	0.0474	25	06/04/2022 01:44	WG1874219
1,1,1,2-Tetrachloroethane	U		0.0140	0.0474	25	06/04/2022 01:44	WG1874219
1,1,2,2-Tetrachloroethane	U		0.0109	0.0474	25	06/04/2022 01:44	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0203	0.0474	25	06/04/2022 01:44	WG1874219
Tetrachloroethene	U		0.0154	0.0474	25	06/04/2022 01:44	WG1874219
Toluene	U		0.0583	0.237	25	06/04/2022 01:44	WG1874219
1,2,3-Trichlorobenzene	U		0.0145	0.0474	25	06/04/2022 01:44	WG1874219
1,2,4-Trichlorobenzene	U		0.0184	0.0474	25	06/04/2022 01:44	WG1874219
1,1,1-Trichloroethane	U		0.0175	0.0474	25	06/04/2022 01:44	WG1874219
1,1,2-Trichloroethane	U		0.0201	0.0474	25	06/04/2022 01:44	WG1874219
Trichloroethene	U		0.00947	0.0474	25	06/04/2022 01:44	WG1874219
Trichlorofluoromethane	U		0.0169	0.237	25	06/04/2022 01:44	WG1874219
1,2,3-Trichloropropane	U		0.0116	0.118	25	06/04/2022 01:44	WG1874219
1,2,4-Trimethylbenzene	U		0.0100	0.0474	25	06/04/2022 01:44	WG1874219
1,2,3-Trimethylbenzene	U		0.0136	0.0474	25	06/04/2022 01:44	WG1874219
Vinyl chloride	U		0.0107	0.0474	25	06/04/2022 01:44	WG1874219
1,3,5-Trimethylbenzene	U		0.0126	0.0474	25	06/04/2022 01:44	WG1874219
Xylenes, Total	U		0.0237	0.142	25	06/04/2022 01:44	WG1874219
(S) Toluene-d8	106			75.0-131		06/04/2022 01:44	WG1874219
(S) 4-Bromofluorobenzene	96.6			67.0-138		06/04/2022 01:44	WG1874219
(S) 1,2-Dichloroethane-d4	103			70.0-130		06/04/2022 01:44	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	149	<u>J</u>	122	282	1	06/05/2022 01:05	WG1873377
AK103 RRO C25-C36	1940		93.9	282	1	06/05/2022 01:05	WG1873377
(S) o-Terphenyl	101			50.0-150		06/05/2022 01:05	WG1873377
(S) n-Triacontane d62	70.9			50.0-150		06/05/2022 01:05	WG1873377

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00324	0.00845	1	06/06/2022 19:29	WG1873765
Acenaphthene	U		0.00295	0.00845	1	06/06/2022 19:29	WG1873765
Acenaphthylene	U		0.00304	0.00845	1	06/06/2022 19:29	WG1873765
Benzo(a)anthracene	0.0130		0.00244	0.00845	1	06/06/2022 19:29	WG1873765
Benzo(a)pyrene	0.0137		0.00252	0.00845	1	06/06/2022 19:29	WG1873765
Benzo(b)fluoranthene	0.0154		0.00216	0.00845	1	06/06/2022 19:29	WG1873765
Benzo(g,h,i)perylene	0.0151		0.00249	0.00845	1	06/06/2022 19:29	WG1873765
Benzo(k)fluoranthene	0.00403	<u>J</u>	0.00303	0.00845	1	06/06/2022 19:29	WG1873765
Chrysene	0.0107		0.00327	0.00845	1	06/06/2022 19:29	WG1873765
Dibenz(a,h)anthracene	U		0.00242	0.00845	1	06/06/2022 19:29	WG1873765
Fluoranthene	0.0137		0.00320	0.00845	1	06/06/2022 19:29	WG1873765
Fluorene	0.0102		0.00289	0.00845	1	06/06/2022 19:29	WG1873765
Indeno(1,2,3-cd)pyrene	0.0140		0.00255	0.00845	1	06/06/2022 19:29	WG1873765
Naphthalene	U		0.00575	0.0282	1	06/06/2022 19:29	WG1873765
Phenanthrene	0.0147		0.00326	0.00845	1	06/06/2022 19:29	WG1873765
Pyrene	0.0159		0.00282	0.00845	1	06/06/2022 19:29	WG1873765
1-Methylnaphthalene	U		0.00633	0.0282	1	06/06/2022 19:29	WG1873765
2-Methylnaphthalene	0.00686	<u>J</u>	0.00602	0.0282	1	06/06/2022 19:29	WG1873765
2-Chloronaphthalene	U		0.00657	0.0282	1	06/06/2022 19:29	WG1873765

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	93.3			14.0-149		06/06/2022 19:29	WG1873765
(S) 2-Fluorobiphenyl	77.0			34.0-125		06/06/2022 19:29	WG1873765
(S) p-Terphenyl-d14	86.1			23.0-120		06/06/2022 19:29	WG1873765

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

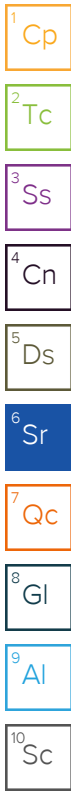
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	89.0		1	06/02/2022 17:03	WG1872618

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.07	2.81	1	06/03/2022 04:34	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	78.2			50.0-150		06/03/2022 04:34	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.657	1.59	25	06/04/2022 02:04	WG1874219
Acrylonitrile	U		0.0641	0.317	25	06/04/2022 02:04	WG1874219
Benzene	U		0.0119	0.0317	25	06/04/2022 02:04	WG1874219
Bromobenzene	U		0.00873	0.0317	25	06/04/2022 02:04	WG1874219
Bromodichloromethane	U		0.0230	0.0317	25	06/04/2022 02:04	WG1874219
Bromoform	U		0.0134	0.0317	25	06/04/2022 02:04	WG1874219
Bromomethane	U	C3	0.0372	0.159	25	06/04/2022 02:04	WG1874219
n-Butylbenzene	U		0.00818	0.0317	25	06/04/2022 02:04	WG1874219
sec-Butylbenzene	U		0.00638	0.0317	25	06/04/2022 02:04	WG1874219
tert-Butylbenzene	U		0.00653	0.0317	25	06/04/2022 02:04	WG1874219
Carbon tetrachloride	U		0.00787	0.0317	25	06/04/2022 02:04	WG1874219
Chlorobenzene	U		0.00609	0.0317	25	06/04/2022 02:04	WG1874219
Chlorodibromomethane	U		0.00710	0.0317	25	06/04/2022 02:04	WG1874219
Chloroethane	U		0.0317	0.159	25	06/04/2022 02:04	WG1874219
Chloroform	U		0.0327	0.159	25	06/04/2022 02:04	WG1874219
Chloromethane	U		0.0207	0.0793	25	06/04/2022 02:04	WG1874219
2-Chlorotoluene	U		0.00714	0.0317	25	06/04/2022 02:04	WG1874219
4-Chlorotoluene	U		0.0219	0.0317	25	06/04/2022 02:04	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0603	0.159	25	06/04/2022 02:04	WG1874219
1,2-Dibromoethane	U		0.00793	0.0317	25	06/04/2022 02:04	WG1874219
Dibromomethane	U		0.0111	0.0317	25	06/04/2022 02:04	WG1874219
1,2-Dichlorobenzene	U		0.0134	0.0317	25	06/04/2022 02:04	WG1874219
1,3-Dichlorobenzene	U		0.0190	0.0317	25	06/04/2022 02:04	WG1874219
1,4-Dichlorobenzene	U		0.0264	0.0317	25	06/04/2022 02:04	WG1874219
Dichlorodifluoromethane	U		0.00910	0.159	25	06/04/2022 02:04	WG1874219
1,1-Dichloroethane	U		0.00850	0.0317	25	06/04/2022 02:04	WG1874219
1,2-Dichloroethane	U		0.0143	0.0317	25	06/04/2022 02:04	WG1874219
1,1-Dichloroethene	U		0.0113	0.0317	25	06/04/2022 02:04	WG1874219
cis-1,2-Dichloroethene	U		0.0151	0.0317	25	06/04/2022 02:04	WG1874219
trans-1,2-Dichloroethene	U		0.0159	0.0317	25	06/04/2022 02:04	WG1874219
1,2-Dichloropropane	U		0.00520	0.0317	25	06/04/2022 02:04	WG1874219
1,1-Dichloropropene	U		0.0119	0.0317	25	06/04/2022 02:04	WG1874219
1,3-Dichloropropane	U		0.00714	0.0317	25	06/04/2022 02:04	WG1874219
cis-1,3-Dichloropropene	U		0.0134	0.0317	25	06/04/2022 02:04	WG1874219
trans-1,3-Dichloropropene	U		0.0214	0.0317	25	06/04/2022 02:04	WG1874219
2,2-Dichloropropane	U		0.0119	0.0317	25	06/04/2022 02:04	WG1874219
Di-isopropyl ether	U		0.00702	0.0317	25	06/04/2022 02:04	WG1874219
Ethylbenzene	U		0.00951	0.0317	25	06/04/2022 02:04	WG1874219
Hexachloro-1,3-butadiene	U		0.0108	0.0317	25	06/04/2022 02:04	WG1874219
Isopropylbenzene	U		0.0134	0.0317	25	06/04/2022 02:04	WG1874219
p-Isopropyltoluene	U		0.00647	0.0317	25	06/04/2022 02:04	WG1874219
2-Butanone (MEK)	U		0.148	0.317	25	06/04/2022 02:04	WG1874219
Methylene Chloride	U		0.0317	0.159	25	06/04/2022 02:04	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0302	0.317	25	06/04/2022 02:04	WG1874219



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0111	0.0317	25	06/04/2022 02:04	WG1874219
Naphthalene	U	<u>C3</u>	0.159	0.159	25	06/04/2022 02:04	WG1874219
n-Propylbenzene	U		0.00653	0.0317	25	06/04/2022 02:04	WG1874219
Styrene	U		0.00708	0.0317	25	06/04/2022 02:04	WG1874219
1,1,1,2-Tetrachloroethane	U		0.00939	0.0317	25	06/04/2022 02:04	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00732	0.0317	25	06/04/2022 02:04	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0136	0.0317	25	06/04/2022 02:04	WG1874219
Tetrachloroethene	U		0.0103	0.0317	25	06/04/2022 02:04	WG1874219
Toluene	U		0.0391	0.159	25	06/04/2022 02:04	WG1874219
1,2,3-Trichlorobenzene	U		0.00970	0.0317	25	06/04/2022 02:04	WG1874219
1,2,4-Trichlorobenzene	U		0.0123	0.0317	25	06/04/2022 02:04	WG1874219
1,1,1-Trichloroethane	U		0.0117	0.0317	25	06/04/2022 02:04	WG1874219
1,1,2-Trichloroethane	U		0.0134	0.0317	25	06/04/2022 02:04	WG1874219
Trichloroethene	U		0.00634	0.0317	25	06/04/2022 02:04	WG1874219
Trichlorofluoromethane	U		0.0113	0.159	25	06/04/2022 02:04	WG1874219
1,2,3-Trichloropropane	U		0.00774	0.0793	25	06/04/2022 02:04	WG1874219
1,2,4-Trimethylbenzene	U		0.00670	0.0317	25	06/04/2022 02:04	WG1874219
1,2,3-Trimethylbenzene	U		0.00910	0.0317	25	06/04/2022 02:04	WG1874219
Vinyl chloride	U		0.00717	0.0317	25	06/04/2022 02:04	WG1874219
1,3,5-Trimethylbenzene	U		0.00844	0.0317	25	06/04/2022 02:04	WG1874219
Xylenes, Total	U		0.0159	0.0951	25	06/04/2022 02:04	WG1874219
(S) Toluene-d8	106			75.0-131		06/04/2022 02:04	WG1874219
(S) 4-Bromofluorobenzene	90.1			67.0-138		06/04/2022 02:04	WG1874219
(S) 1,2-Dichloroethane-d4	103			70.0-130		06/04/2022 02:04	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		97.3	225	1	06/06/2022 20:46	WG1873761
AK103 RRO C25-C36	U		74.8	225	1	06/06/2022 20:46	WG1873761
(S) o-Terphenyl	101			50.0-150		06/06/2022 20:46	WG1873761
(S) n-Triacontane d62	91.4			50.0-150		06/06/2022 20:46	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00258	0.00674	1	06/06/2022 18:20	WG1873765
Acenaphthene	U		0.00235	0.00674	1	06/06/2022 18:20	WG1873765
Acenaphthylene	U		0.00243	0.00674	1	06/06/2022 18:20	WG1873765
Benzo(a)anthracene	U		0.00194	0.00674	1	06/06/2022 18:20	WG1873765
Benzo(a)pyrene	U		0.00201	0.00674	1	06/06/2022 18:20	WG1873765
Benzo(b)fluoranthene	U		0.00172	0.00674	1	06/06/2022 18:20	WG1873765
Benzo(g,h,i)perylene	U		0.00199	0.00674	1	06/06/2022 18:20	WG1873765
Benzo(k)fluoranthene	U		0.00241	0.00674	1	06/06/2022 18:20	WG1873765
Chrysene	U		0.00261	0.00674	1	06/06/2022 18:20	WG1873765
Dibenz(a,h)anthracene	U		0.00193	0.00674	1	06/06/2022 18:20	WG1873765
Fluoranthene	U		0.00255	0.00674	1	06/06/2022 18:20	WG1873765
Fluorene	U		0.00230	0.00674	1	06/06/2022 18:20	WG1873765
Indeno(1,2,3-cd)pyrene	U		0.00203	0.00674	1	06/06/2022 18:20	WG1873765
Naphthalene	U		0.00458	0.0225	1	06/06/2022 18:20	WG1873765
Phenanthrene	U		0.00259	0.00674	1	06/06/2022 18:20	WG1873765
Pyrene	U		0.00225	0.00674	1	06/06/2022 18:20	WG1873765
1-Methylnaphthalene	U		0.00504	0.0225	1	06/06/2022 18:20	WG1873765
2-Methylnaphthalene	U		0.00480	0.0225	1	06/06/2022 18:20	WG1873765
2-Chloronaphthalene	U		0.00523	0.0225	1	06/06/2022 18:20	WG1873765

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	79.3			14.0-149		06/06/2022 18:20	WG1873765
(S) 2-Fluorobiphenyl	82.3			34.0-125		06/06/2022 18:20	WG1873765
(S) p-Terphenyl-d14	97.4			23.0-120		06/06/2022 18:20	WG1873765

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.3		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.08	2.83	1	06/03/2022 05:01	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	79.7			50.0-150		06/03/2022 05:01	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.666	1.61	25	06/04/2022 02:24	WG1874219
Acrylonitrile	U		0.0650	0.322	25	06/04/2022 02:24	WG1874219
Benzene	U		0.0121	0.0322	25	06/04/2022 02:24	WG1874219
Bromobenzene	U		0.00885	0.0322	25	06/04/2022 02:24	WG1874219
Bromodichloromethane	U		0.0233	0.0322	25	06/04/2022 02:24	WG1874219
Bromoform	U		0.0136	0.0322	25	06/04/2022 02:24	WG1874219
Bromomethane	U	C3	0.0377	0.161	25	06/04/2022 02:24	WG1874219
n-Butylbenzene	U		0.00830	0.0322	25	06/04/2022 02:24	WG1874219
sec-Butylbenzene	U		0.00647	0.0322	25	06/04/2022 02:24	WG1874219
tert-Butylbenzene	U		0.00663	0.0322	25	06/04/2022 02:24	WG1874219
Carbon tetrachloride	U		0.00798	0.0322	25	06/04/2022 02:24	WG1874219
Chlorobenzene	U		0.00618	0.0322	25	06/04/2022 02:24	WG1874219
Chlorodibromomethane	U		0.00720	0.0322	25	06/04/2022 02:24	WG1874219
Chloroethane	U		0.0322	0.161	25	06/04/2022 02:24	WG1874219
Chloroform	U		0.0332	0.161	25	06/04/2022 02:24	WG1874219
Chloromethane	U		0.0210	0.0804	25	06/04/2022 02:24	WG1874219
2-Chlorotoluene	U		0.00724	0.0322	25	06/04/2022 02:24	WG1874219
4-Chlorotoluene	U		0.0223	0.0322	25	06/04/2022 02:24	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0611	0.161	25	06/04/2022 02:24	WG1874219
1,2-Dibromoethane	U		0.00804	0.0322	25	06/04/2022 02:24	WG1874219
Dibromomethane	U		0.0113	0.0322	25	06/04/2022 02:24	WG1874219
1,2-Dichlorobenzene	U		0.0136	0.0322	25	06/04/2022 02:24	WG1874219
1,3-Dichlorobenzene	U		0.0193	0.0322	25	06/04/2022 02:24	WG1874219
1,4-Dichlorobenzene	U		0.0268	0.0322	25	06/04/2022 02:24	WG1874219
Dichlorodifluoromethane	U		0.00922	0.161	25	06/04/2022 02:24	WG1874219
1,1-Dichloroethane	U		0.00862	0.0322	25	06/04/2022 02:24	WG1874219
1,2-Dichloroethane	U		0.0145	0.0322	25	06/04/2022 02:24	WG1874219
1,1-Dichloroethene	U		0.0114	0.0322	25	06/04/2022 02:24	WG1874219
cis-1,2-Dichloroethene	U		0.0153	0.0322	25	06/04/2022 02:24	WG1874219
trans-1,2-Dichloroethene	U		0.0161	0.0322	25	06/04/2022 02:24	WG1874219
1,2-Dichloropropane	U		0.00527	0.0322	25	06/04/2022 02:24	WG1874219
1,1-Dichloropropene	U		0.0121	0.0322	25	06/04/2022 02:24	WG1874219
1,3-Dichloropropane	U		0.00724	0.0322	25	06/04/2022 02:24	WG1874219
cis-1,3-Dichloropropene	U		0.0136	0.0322	25	06/04/2022 02:24	WG1874219
trans-1,3-Dichloropropene	U		0.0217	0.0322	25	06/04/2022 02:24	WG1874219
2,2-Dichloropropane	U		0.0121	0.0322	25	06/04/2022 02:24	WG1874219
Di-isopropyl ether	U		0.00711	0.0322	25	06/04/2022 02:24	WG1874219
Ethylbenzene	U		0.00965	0.0322	25	06/04/2022 02:24	WG1874219
Hexachloro-1,3-butadiene	U		0.0110	0.0322	25	06/04/2022 02:24	WG1874219
Isopropylbenzene	U		0.0136	0.0322	25	06/04/2022 02:24	WG1874219
p-Isopropyltoluene	U		0.00656	0.0322	25	06/04/2022 02:24	WG1874219
2-Butanone (MEK)	U		0.151	0.322	25	06/04/2022 02:24	WG1874219
Methylene Chloride	U		0.0322	0.161	25	06/04/2022 02:24	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0306	0.322	25	06/04/2022 02:24	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0113	0.0322	25	06/04/2022 02:24	WG1874219
Naphthalene	U	C3	0.161	0.161	25	06/04/2022 02:24	WG1874219
n-Propylbenzene	U		0.00663	0.0322	25	06/04/2022 02:24	WG1874219
Styrene	U		0.00718	0.0322	25	06/04/2022 02:24	WG1874219
1,1,1,2-Tetrachloroethane	U		0.00952	0.0322	25	06/04/2022 02:24	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00742	0.0322	25	06/04/2022 02:24	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0138	0.0322	25	06/04/2022 02:24	WG1874219
Tetrachloroethene	U		0.0105	0.0322	25	06/04/2022 02:24	WG1874219
Toluene	U		0.0396	0.161	25	06/04/2022 02:24	WG1874219
1,2,3-Trichlorobenzene	U		0.00984	0.0322	25	06/04/2022 02:24	WG1874219
1,2,4-Trichlorobenzene	U		0.0125	0.0322	25	06/04/2022 02:24	WG1874219
1,1,1-Trichloroethane	U		0.0119	0.0322	25	06/04/2022 02:24	WG1874219
1,1,2-Trichloroethane	U		0.0136	0.0322	25	06/04/2022 02:24	WG1874219
Trichloroethene	U		0.00643	0.0322	25	06/04/2022 02:24	WG1874219
Trichlorofluoromethane	U		0.0115	0.161	25	06/04/2022 02:24	WG1874219
1,2,3-Trichloropropane	U		0.00785	0.0804	25	06/04/2022 02:24	WG1874219
1,2,4-Trimethylbenzene	U		0.00679	0.0322	25	06/04/2022 02:24	WG1874219
1,2,3-Trimethylbenzene	U		0.00922	0.0322	25	06/04/2022 02:24	WG1874219
Vinyl chloride	U		0.00727	0.0322	25	06/04/2022 02:24	WG1874219
1,3,5-Trimethylbenzene	U		0.00856	0.0322	25	06/04/2022 02:24	WG1874219
Xylenes, Total	U		0.0161	0.0965	25	06/04/2022 02:24	WG1874219
(S) Toluene-d8	104			75.0-131		06/04/2022 02:24	WG1874219
(S) 4-Bromofluorobenzene	87.1			67.0-138		06/04/2022 02:24	WG1874219
(S) 1,2-Dichloroethane-d4	103			70.0-130		06/04/2022 02:24	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U	J3 J5	98.1	226	1	06/06/2022 22:41	WG1873761
AK103 RRO C25-C36	320	J6	75.4	226	1	06/06/2022 22:41	WG1873761
(S) o-Terphenyl	112			50.0-150		06/06/2022 22:41	WG1873761
(S) n-Triacontane d62	92.6			50.0-150		06/06/2022 22:41	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00260	0.00679	1	06/06/2022 18:12	WG1873766
Acenaphthene	U		0.00237	0.00679	1	06/06/2022 18:12	WG1873766
Acenaphthylene	U		0.00245	0.00679	1	06/06/2022 18:12	WG1873766
Benzo(a)anthracene	U		0.00196	0.00679	1	06/06/2022 18:12	WG1873766
Benzo(a)pyrene	U		0.00203	0.00679	1	06/06/2022 18:12	WG1873766
Benzo(b)fluoranthene	U		0.00173	0.00679	1	06/06/2022 18:12	WG1873766
Benzo(g,h,i)perylene	U		0.00200	0.00679	1	06/06/2022 18:12	WG1873766
Benzo(k)fluoranthene	U		0.00243	0.00679	1	06/06/2022 18:12	WG1873766
Chrysene	U		0.00263	0.00679	1	06/06/2022 18:12	WG1873766
Dibenz(a,h)anthracene	U		0.00195	0.00679	1	06/06/2022 18:12	WG1873766
Fluoranthene	U		0.00257	0.00679	1	06/06/2022 18:12	WG1873766
Fluorene	U		0.00232	0.00679	1	06/06/2022 18:12	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00205	0.00679	1	06/06/2022 18:12	WG1873766
Naphthalene	U		0.00462	0.0226	1	06/06/2022 18:12	WG1873766
Phenanthrene	U		0.00262	0.00679	1	06/06/2022 18:12	WG1873766
Pyrene	0.00270	J	0.00226	0.00679	1	06/06/2022 18:12	WG1873766
1-Methylnaphthalene	U		0.00508	0.0226	1	06/06/2022 18:12	WG1873766
2-Methylnaphthalene	U		0.00484	0.0226	1	06/06/2022 18:12	WG1873766
2-Chloronaphthalene	U		0.00528	0.0226	1	06/06/2022 18:12	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	91.2			14.0-149		06/06/2022 18:12	WG1873766
(S) 2-Fluorobiphenyl	85.6			34.0-125		06/06/2022 18:12	WG1873766
(S) p-Terphenyl-d14	96.5			23.0-120		06/06/2022 18:12	WG1873766

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

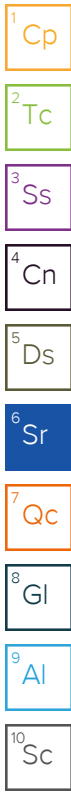
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	88.4		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	981		10.3	27.2	9.6	06/03/2022 08:35	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	81.0			50.0-150		06/03/2022 08:35	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	13.4	32.1	500	06/04/2022 06:58	WG1874219
Acrylonitrile	U		1.30	6.42	500	06/04/2022 06:58	WG1874219
Benzene	U		0.242	0.642	500	06/04/2022 06:58	WG1874219
Bromobenzene	U		0.177	0.642	500	06/04/2022 06:58	WG1874219
Bromodichloromethane	U		0.466	0.642	500	06/04/2022 06:58	WG1874219
Bromoform	U		0.272	0.642	500	06/04/2022 06:58	WG1874219
Bromomethane	U	C3	0.752	3.21	500	06/04/2022 06:58	WG1874219
n-Butylbenzene	U		0.166	0.642	500	06/04/2022 06:58	WG1874219
sec-Butylbenzene	U		0.130	0.642	500	06/04/2022 06:58	WG1874219
tert-Butylbenzene	U		0.132	0.642	500	06/04/2022 06:58	WG1874219
Carbon tetrachloride	U		0.159	0.642	500	06/04/2022 06:58	WG1874219
Chlorobenzene	U		0.123	0.642	500	06/04/2022 06:58	WG1874219
Chlorodibromomethane	U		0.144	0.642	500	06/04/2022 06:58	WG1874219
Chloroethane	U		0.642	3.21	500	06/04/2022 06:58	WG1874219
Chloroform	U		0.662	3.21	500	06/04/2022 06:58	WG1874219
Chloromethane	U		0.418	1.61	500	06/04/2022 06:58	WG1874219
2-Chlorotoluene	U		0.145	0.642	500	06/04/2022 06:58	WG1874219
4-Chlorotoluene	U		0.443	0.642	500	06/04/2022 06:58	WG1874219
1,2-Dibromo-3-Chloropropane	U		1.22	3.21	500	06/04/2022 06:58	WG1874219
1,2-Dibromoethane	U		0.161	0.642	500	06/04/2022 06:58	WG1874219
Dibromomethane	U		0.225	0.642	500	06/04/2022 06:58	WG1874219
1,2-Dichlorobenzene	U		0.274	0.642	500	06/04/2022 06:58	WG1874219
1,3-Dichlorobenzene	U		0.385	0.642	500	06/04/2022 06:58	WG1874219
1,4-Dichlorobenzene	U		0.533	0.642	500	06/04/2022 06:58	WG1874219
Dichlorodifluoromethane	U		0.184	3.21	500	06/04/2022 06:58	WG1874219
1,1-Dichloroethane	U		0.172	0.642	500	06/04/2022 06:58	WG1874219
1,2-Dichloroethane	U		0.289	0.642	500	06/04/2022 06:58	WG1874219
1,1-Dichloroethene	U		0.229	0.642	500	06/04/2022 06:58	WG1874219
cis-1,2-Dichloroethene	U		0.306	0.642	500	06/04/2022 06:58	WG1874219
trans-1,2-Dichloroethene	U		0.321	0.642	500	06/04/2022 06:58	WG1874219
1,2-Dichloropropane	U		0.105	0.642	500	06/04/2022 06:58	WG1874219
1,1-Dichloropropene	U		0.242	0.642	500	06/04/2022 06:58	WG1874219
1,3-Dichloropropane	U		0.145	0.642	500	06/04/2022 06:58	WG1874219
cis-1,3-Dichloropropene	U		0.274	0.642	500	06/04/2022 06:58	WG1874219
trans-1,3-Dichloropropene	U		0.434	0.642	500	06/04/2022 06:58	WG1874219
2,2-Dichloropropane	U		0.242	0.642	500	06/04/2022 06:58	WG1874219
Di-isopropyl ether	U		0.143	0.642	500	06/04/2022 06:58	WG1874219
Ethylbenzene	U		0.193	0.642	500	06/04/2022 06:58	WG1874219
Hexachloro-1,3-butadiene	U		0.220	0.642	500	06/04/2022 06:58	WG1874219
Isopropylbenzene	U		0.274	0.642	500	06/04/2022 06:58	WG1874219
p-Isopropyltoluene	U		0.131	0.642	500	06/04/2022 06:58	WG1874219
2-Butanone (MEK)	U		3.01	6.42	500	06/04/2022 06:58	WG1874219
Methylene Chloride	U		0.642	3.21	500	06/04/2022 06:58	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.610	6.42	500	06/04/2022 06:58	WG1874219



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.225	0.642	500	06/04/2022 06:58	WG1874219
Naphthalene	U	C3	3.20	3.21	500	06/04/2022 06:58	WG1874219
n-Propylbenzene	U		0.132	0.642	500	06/04/2022 06:58	WG1874219
Styrene	U		0.144	0.642	500	06/04/2022 06:58	WG1874219
1,1,1,2-Tetrachloroethane	U		0.190	0.642	500	06/04/2022 06:58	WG1874219
1,1,2,2-Tetrachloroethane	U		0.149	0.642	500	06/04/2022 06:58	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.274	0.642	500	06/04/2022 06:58	WG1874219
Tetrachloroethene	U		0.209	0.642	500	06/04/2022 06:58	WG1874219
Toluene	U		0.790	3.21	500	06/04/2022 06:58	WG1874219
1,2,3-Trichlorobenzene	U		0.197	0.642	500	06/04/2022 06:58	WG1874219
1,2,4-Trichlorobenzene	U		0.249	0.642	500	06/04/2022 06:58	WG1874219
1,1,1-Trichloroethane	U		0.238	0.642	500	06/04/2022 06:58	WG1874219
1,1,2-Trichloroethane	3.02		0.274	0.642	500	06/04/2022 06:58	WG1874219
Trichloroethene	0.231	U	0.128	0.642	500	06/04/2022 06:58	WG1874219
Trichlorofluoromethane	U		0.229	3.21	500	06/04/2022 06:58	WG1874219
1,2,3-Trichloropropane	U		0.157	1.61	500	06/04/2022 06:58	WG1874219
1,2,4-Trimethylbenzene	0.668		0.136	0.642	500	06/04/2022 06:58	WG1874219
1,2,3-Trimethylbenzene	U		0.184	0.642	500	06/04/2022 06:58	WG1874219
Vinyl chloride	U		0.145	0.642	500	06/04/2022 06:58	WG1874219
1,3,5-Trimethylbenzene	0.218	U	0.171	0.642	500	06/04/2022 06:58	WG1874219
Xylenes, Total	1.36	U	0.321	1.93	500	06/04/2022 06:58	WG1874219
(S) Toluene-d8	107			75.0-131		06/04/2022 06:58	WG1874219
(S) 4-Bromofluorobenzene	98.6			67.0-138		06/04/2022 06:58	WG1874219
(S) 1,2-Dichloroethane-d4	105			70.0-130		06/04/2022 06:58	WG1874219

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Sample Narrative:

L1498453-09 WG1874219: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		98.0	226	1	06/06/2022 22:15	WG1873761
AK103 RRO C25-C36	273		75.4	226	1	06/06/2022 22:15	WG1873761
(S) o-Terphenyl	97.7			50.0-150		06/06/2022 22:15	WG1873761
(S) n-Triacontane d62	84.5			50.0-150		06/06/2022 22:15	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00260	0.00679	1	06/06/2022 16:32	WG1873766
Acenaphthene	U		0.00237	0.00679	1	06/06/2022 16:32	WG1873766
Acenaphthylene	U		0.00244	0.00679	1	06/06/2022 16:32	WG1873766
Benzo(a)anthracene	0.00217	U	0.00196	0.00679	1	06/06/2022 16:32	WG1873766
Benzo(a)pyrene	U		0.00203	0.00679	1	06/06/2022 16:32	WG1873766
Benzo(b)fluoranthene	0.00217	U	0.00173	0.00679	1	06/06/2022 16:32	WG1873766
Benzo(g,h,i)perylene	U		0.00200	0.00679	1	06/06/2022 16:32	WG1873766
Benzo(k)fluoranthene	U		0.00243	0.00679	1	06/06/2022 16:32	WG1873766
Chrysene	U		0.00263	0.00679	1	06/06/2022 16:32	WG1873766
Dibenz(a,h)anthracene	U		0.00195	0.00679	1	06/06/2022 16:32	WG1873766
Fluoranthene	0.00650	U	0.00257	0.00679	1	06/06/2022 16:32	WG1873766
Fluorene	U		0.00232	0.00679	1	06/06/2022 16:32	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00205	0.00679	1	06/06/2022 16:32	WG1873766
Naphthalene	0.0130	U	0.00462	0.0226	1	06/06/2022 16:32	WG1873766
Phenanthrene	0.00662	U	0.00261	0.00679	1	06/06/2022 16:32	WG1873766
Pyrene	0.00611	U	0.00226	0.00679	1	06/06/2022 16:32	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	0.0137	J	0.00508	0.0226	1	06/06/2022 16:32	WG1873766
2-Methylnaphthalene	0.0188	J	0.00483	0.0226	1	06/06/2022 16:32	WG1873766
2-Chloronaphthalene	U		0.00527	0.0226	1	06/06/2022 16:32	WG1873766
(S) Nitrobenzene-d5	79.1			14.0-149		06/06/2022 16:32	WG1873766
(S) 2-Fluorobiphenyl	84.5			34.0-125		06/06/2022 16:32	WG1873766
(S) p-Terphenyl-d14	91.3			23.0-120		06/06/2022 16:32	WG1873766

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.9		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.08	2.84	1	06/03/2022 05:27	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	80.1			50.0-150		06/03/2022 05:27	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.669	1.61	25	06/04/2022 02:43	WG1874219
Acrylonitrile	U		0.0652	0.323	25	06/04/2022 02:43	WG1874219
Benzene	U		0.0121	0.0323	25	06/04/2022 02:43	WG1874219
Bromobenzene	U		0.00889	0.0323	25	06/04/2022 02:43	WG1874219
Bromodichloromethane	U		0.0234	0.0323	25	06/04/2022 02:43	WG1874219
Bromoform	U		0.0137	0.0323	25	06/04/2022 02:43	WG1874219
Bromomethane	U	C3	0.0378	0.161	25	06/04/2022 02:43	WG1874219
n-Butylbenzene	U		0.00833	0.0323	25	06/04/2022 02:43	WG1874219
sec-Butylbenzene	U		0.00650	0.0323	25	06/04/2022 02:43	WG1874219
tert-Butylbenzene	U		0.00665	0.0323	25	06/04/2022 02:43	WG1874219
Carbon tetrachloride	U		0.00801	0.0323	25	06/04/2022 02:43	WG1874219
Chlorobenzene	U		0.00620	0.0323	25	06/04/2022 02:43	WG1874219
Chlorodibromomethane	U		0.00723	0.0323	25	06/04/2022 02:43	WG1874219
Chloroethane	U		0.0323	0.161	25	06/04/2022 02:43	WG1874219
Chloroform	U		0.0333	0.161	25	06/04/2022 02:43	WG1874219
Chloromethane	U		0.0211	0.0807	25	06/04/2022 02:43	WG1874219
2-Chlorotoluene	U		0.00727	0.0323	25	06/04/2022 02:43	WG1874219
4-Chlorotoluene	U		0.0223	0.0323	25	06/04/2022 02:43	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0613	0.161	25	06/04/2022 02:43	WG1874219
1,2-Dibromoethane	U		0.00807	0.0323	25	06/04/2022 02:43	WG1874219
Dibromomethane	U		0.0113	0.0323	25	06/04/2022 02:43	WG1874219
1,2-Dichlorobenzene	U		0.0137	0.0323	25	06/04/2022 02:43	WG1874219
1,3-Dichlorobenzene	U		0.0194	0.0323	25	06/04/2022 02:43	WG1874219
1,4-Dichlorobenzene	U		0.0269	0.0323	25	06/04/2022 02:43	WG1874219
Dichlorodifluoromethane	U		0.00926	0.161	25	06/04/2022 02:43	WG1874219
1,1-Dichloroethane	U		0.00865	0.0323	25	06/04/2022 02:43	WG1874219
1,2-Dichloroethane	U		0.0146	0.0323	25	06/04/2022 02:43	WG1874219
1,1-Dichloroethene	U		0.0115	0.0323	25	06/04/2022 02:43	WG1874219
cis-1,2-Dichloroethene	U		0.0154	0.0323	25	06/04/2022 02:43	WG1874219
trans-1,2-Dichloroethene	U		0.0161	0.0323	25	06/04/2022 02:43	WG1874219
1,2-Dichloropropane	U		0.00530	0.0323	25	06/04/2022 02:43	WG1874219
1,1-Dichloropropene	U		0.0121	0.0323	25	06/04/2022 02:43	WG1874219
1,3-Dichloropropane	U		0.00727	0.0323	25	06/04/2022 02:43	WG1874219
cis-1,3-Dichloropropene	U		0.0137	0.0323	25	06/04/2022 02:43	WG1874219
trans-1,3-Dichloropropene	U		0.0218	0.0323	25	06/04/2022 02:43	WG1874219
2,2-Dichloropropane	U		0.0121	0.0323	25	06/04/2022 02:43	WG1874219
Di-isopropyl ether	U		0.00714	0.0323	25	06/04/2022 02:43	WG1874219
Ethylbenzene	U		0.00969	0.0323	25	06/04/2022 02:43	WG1874219
Hexachloro-1,3-butadiene	U		0.0110	0.0323	25	06/04/2022 02:43	WG1874219
Isopropylbenzene	U		0.0137	0.0323	25	06/04/2022 02:43	WG1874219
p-Isopropyltoluene	U		0.00659	0.0323	25	06/04/2022 02:43	WG1874219
2-Butanone (MEK)	U		0.151	0.323	25	06/04/2022 02:43	WG1874219
Methylene Chloride	U		0.0323	0.161	25	06/04/2022 02:43	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0307	0.323	25	06/04/2022 02:43	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0113	0.0323	25	06/04/2022 02:43	WG1874219
Naphthalene	U	C3	0.161	0.161	25	06/04/2022 02:43	WG1874219
n-Propylbenzene	U		0.00665	0.0323	25	06/04/2022 02:43	WG1874219
Styrene	U		0.00721	0.0323	25	06/04/2022 02:43	WG1874219
1,1,1,2-Tetrachloroethane	U		0.00956	0.0323	25	06/04/2022 02:43	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00745	0.0323	25	06/04/2022 02:43	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0138	0.0323	25	06/04/2022 02:43	WG1874219
Tetrachloroethene	U		0.0105	0.0323	25	06/04/2022 02:43	WG1874219
Toluene	U		0.0398	0.161	25	06/04/2022 02:43	WG1874219
1,2,3-Trichlorobenzene	U		0.00988	0.0323	25	06/04/2022 02:43	WG1874219
1,2,4-Trichlorobenzene	U		0.0125	0.0323	25	06/04/2022 02:43	WG1874219
1,1,1-Trichloroethane	U		0.0119	0.0323	25	06/04/2022 02:43	WG1874219
1,1,2-Trichloroethane	U		0.0137	0.0323	25	06/04/2022 02:43	WG1874219
Trichloroethene	U		0.00646	0.0323	25	06/04/2022 02:43	WG1874219
Trichlorofluoromethane	U		0.0115	0.161	25	06/04/2022 02:43	WG1874219
1,2,3-Trichloropropane	U		0.00788	0.0807	25	06/04/2022 02:43	WG1874219
1,2,4-Trimethylbenzene	0.0387		0.00682	0.0323	25	06/04/2022 02:43	WG1874219
1,2,3-Trimethylbenzene	0.0125	U	0.00926	0.0323	25	06/04/2022 02:43	WG1874219
Vinyl chloride	U		0.00730	0.0323	25	06/04/2022 02:43	WG1874219
1,3,5-Trimethylbenzene	U		0.00859	0.0323	25	06/04/2022 02:43	WG1874219
Xylenes, Total	0.0185	U	0.0161	0.0969	25	06/04/2022 02:43	WG1874219
(S) Toluene-d8	104			75.0-131		06/04/2022 02:43	WG1874219
(S) 4-Bromofluorobenzene	91.4			67.0-138		06/04/2022 02:43	WG1874219
(S) 1,2-Dichloroethane-d4	104			70.0-130		06/04/2022 02:43	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		98.5	228	1	06/06/2022 22:02	WG1873761
AK103 RRO C25-C36	583		75.8	228	1	06/06/2022 22:02	WG1873761
(S) o-Terphenyl	72.3			50.0-150		06/06/2022 22:02	WG1873761
(S) n-Triacontane d62	88.2			50.0-150		06/06/2022 22:02	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00262	0.00683	1	06/06/2022 17:52	WG1873766
Acenaphthene	U		0.00238	0.00683	1	06/06/2022 17:52	WG1873766
Acenaphthylene	U		0.00246	0.00683	1	06/06/2022 17:52	WG1873766
Benzo(a)anthracene	U		0.00197	0.00683	1	06/06/2022 17:52	WG1873766
Benzo(a)pyrene	U		0.00204	0.00683	1	06/06/2022 17:52	WG1873766
Benzo(b)fluoranthene	U		0.00174	0.00683	1	06/06/2022 17:52	WG1873766
Benzo(g,h,i)perylene	U		0.00201	0.00683	1	06/06/2022 17:52	WG1873766
Benzo(k)fluoranthene	U		0.00245	0.00683	1	06/06/2022 17:52	WG1873766
Chrysene	U		0.00264	0.00683	1	06/06/2022 17:52	WG1873766
Dibenz(a,h)anthracene	U		0.00196	0.00683	1	06/06/2022 17:52	WG1873766
Fluoranthene	U		0.00258	0.00683	1	06/06/2022 17:52	WG1873766
Fluorene	U		0.00233	0.00683	1	06/06/2022 17:52	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00206	0.00683	1	06/06/2022 17:52	WG1873766
Naphthalene	0.00599	U	0.00464	0.0228	1	06/06/2022 17:52	WG1873766
Phenanthrene	U		0.00263	0.00683	1	06/06/2022 17:52	WG1873766
Pyrene	0.00244	U	0.00228	0.00683	1	06/06/2022 17:52	WG1873766
1-Methylnaphthalene	U		0.00511	0.0228	1	06/06/2022 17:52	WG1873766
2-Methylnaphthalene	U		0.00486	0.0228	1	06/06/2022 17:52	WG1873766
2-Chloronaphthalene	U		0.00530	0.0228	1	06/06/2022 17:52	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	90.9			14.0-149		06/06/2022 17:52	WG1873766
(S) 2-Fluorobiphenyl	83.9			34.0-125		06/06/2022 17:52	WG1873766
(S) p-Terphenyl-d14	94.9			23.0-120		06/06/2022 17:52	WG1873766

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	45.4		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		2.11	5.58	1.01	06/03/2022 05:54	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	86.0			50.0-150		06/03/2022 05:54	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	1.83	4.43	26.3	06/04/2022 03:03	WG1874219
Acrylonitrile	U		0.178	0.883	26.3	06/04/2022 03:03	WG1874219
Benzene	U		0.0331	0.0883	26.3	06/04/2022 03:03	WG1874219
Bromobenzene	U		0.0243	0.0883	26.3	06/04/2022 03:03	WG1874219
Bromodichloromethane	U		0.0641	0.0883	26.3	06/04/2022 03:03	WG1874219
Bromoform	U		0.0376	0.0883	26.3	06/04/2022 03:03	WG1874219
Bromomethane	U	C3	0.103	0.440	26.3	06/04/2022 03:03	WG1874219
n-Butylbenzene	U		0.0228	0.0883	26.3	06/04/2022 03:03	WG1874219
sec-Butylbenzene	U		0.0178	0.0883	26.3	06/04/2022 03:03	WG1874219
tert-Butylbenzene	U		0.0182	0.0883	26.3	06/04/2022 03:03	WG1874219
Carbon tetrachloride	U		0.0219	0.0883	26.3	06/04/2022 03:03	WG1874219
Chlorobenzene	U		0.0170	0.0883	26.3	06/04/2022 03:03	WG1874219
Chlorodibromomethane	U		0.0198	0.0883	26.3	06/04/2022 03:03	WG1874219
Chloroethane	U		0.0883	0.440	26.3	06/04/2022 03:03	WG1874219
Chloroform	U		0.0910	0.440	26.3	06/04/2022 03:03	WG1874219
Chloromethane	U		0.0574	0.221	26.3	06/04/2022 03:03	WG1874219
2-Chlorotoluene	U		0.0199	0.0883	26.3	06/04/2022 03:03	WG1874219
4-Chlorotoluene	U		0.0611	0.0883	26.3	06/04/2022 03:03	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.168	0.440	26.3	06/04/2022 03:03	WG1874219
1,2-Dibromoethane	U		0.0221	0.0883	26.3	06/04/2022 03:03	WG1874219
Dibromomethane	U		0.0309	0.0883	26.3	06/04/2022 03:03	WG1874219
1,2-Dichlorobenzene	U		0.0376	0.0883	26.3	06/04/2022 03:03	WG1874219
1,3-Dichlorobenzene	U		0.0530	0.0883	26.3	06/04/2022 03:03	WG1874219
1,4-Dichlorobenzene	U		0.0732	0.0883	26.3	06/04/2022 03:03	WG1874219
Dichlorodifluoromethane	U		0.0253	0.440	26.3	06/04/2022 03:03	WG1874219
1,1-Dichloroethane	U		0.0237	0.0883	26.3	06/04/2022 03:03	WG1874219
1,2-Dichloroethane	U		0.0396	0.0883	26.3	06/04/2022 03:03	WG1874219
1,1-Dichloroethene	U		0.0314	0.0883	26.3	06/04/2022 03:03	WG1874219
cis-1,2-Dichloroethene	U		0.0420	0.0883	26.3	06/04/2022 03:03	WG1874219
trans-1,2-Dichloroethene	U		0.0440	0.0883	26.3	06/04/2022 03:03	WG1874219
1,2-Dichloropropane	U		0.0145	0.0883	26.3	06/04/2022 03:03	WG1874219
1,1-Dichloropropene	U		0.0331	0.0883	26.3	06/04/2022 03:03	WG1874219
1,3-Dichloropropane	U		0.0199	0.0883	26.3	06/04/2022 03:03	WG1874219
cis-1,3-Dichloropropene	U		0.0376	0.0883	26.3	06/04/2022 03:03	WG1874219
trans-1,3-Dichloropropene	U		0.0597	0.0883	26.3	06/04/2022 03:03	WG1874219
2,2-Dichloropropane	U		0.0331	0.0883	26.3	06/04/2022 03:03	WG1874219
Di-isopropyl ether	U		0.0195	0.0883	26.3	06/04/2022 03:03	WG1874219
Ethylbenzene	U		0.0265	0.0883	26.3	06/04/2022 03:03	WG1874219
Hexachloro-1,3-butadiene	U		0.0302	0.0883	26.3	06/04/2022 03:03	WG1874219
Isopropylbenzene	U		0.0376	0.0883	26.3	06/04/2022 03:03	WG1874219
p-Isopropyltoluene	U		0.0180	0.0883	26.3	06/04/2022 03:03	WG1874219
2-Butanone (MEK)	U		0.413	0.883	26.3	06/04/2022 03:03	WG1874219
Methylene Chloride	U		0.0883	0.440	26.3	06/04/2022 03:03	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0839	0.883	26.3	06/04/2022 03:03	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0309	0.0883	26.3	06/04/2022 03:03	WG1874219
Naphthalene	U	C3	0.440	0.440	26.3	06/04/2022 03:03	WG1874219
n-Propylbenzene	U		0.0182	0.0883	26.3	06/04/2022 03:03	WG1874219
Styrene	U		0.0197	0.0883	26.3	06/04/2022 03:03	WG1874219
1,1,1,2-Tetrachloroethane	U		0.0261	0.0883	26.3	06/04/2022 03:03	WG1874219
1,1,2,2-Tetrachloroethane	U		0.0204	0.0883	26.3	06/04/2022 03:03	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0376	0.0883	26.3	06/04/2022 03:03	WG1874219
Tetrachloroethene	U		0.0287	0.0883	26.3	06/04/2022 03:03	WG1874219
Toluene	U		0.108	0.440	26.3	06/04/2022 03:03	WG1874219
1,2,3-Trichlorobenzene	U		0.0270	0.0883	26.3	06/04/2022 03:03	WG1874219
1,2,4-Trichlorobenzene	U		0.0342	0.0883	26.3	06/04/2022 03:03	WG1874219
1,1,1-Trichloroethane	U		0.0327	0.0883	26.3	06/04/2022 03:03	WG1874219
1,1,2-Trichloroethane	U		0.0376	0.0883	26.3	06/04/2022 03:03	WG1874219
Trichloroethene	U		0.0177	0.0883	26.3	06/04/2022 03:03	WG1874219
Trichlorofluoromethane	U		0.0314	0.440	26.3	06/04/2022 03:03	WG1874219
1,2,3-Trichloropropane	U		0.0215	0.221	26.3	06/04/2022 03:03	WG1874219
1,2,4-Trimethylbenzene	U		0.0186	0.0883	26.3	06/04/2022 03:03	WG1874219
1,2,3-Trimethylbenzene	U		0.0253	0.0883	26.3	06/04/2022 03:03	WG1874219
Vinyl chloride	U		0.0199	0.0883	26.3	06/04/2022 03:03	WG1874219
1,3,5-Trimethylbenzene	U		0.0235	0.0883	26.3	06/04/2022 03:03	WG1874219
Xylenes, Total	U		0.0440	0.265	26.3	06/04/2022 03:03	WG1874219
(S) Toluene-d8	102			75.0-131		06/04/2022 03:03	WG1874219
(S) 4-Bromofluorobenzene	93.4			67.0-138		06/04/2022 03:03	WG1874219
(S) 1,2-Dichloroethane-d4	103			70.0-130		06/04/2022 03:03	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		191	441	1	06/06/2022 20:59	WG1873761
AK103 RRO C25-C36	512		147	441	1	06/06/2022 20:59	WG1873761
(S) o-Terphenyl	14.8	J2		50.0-150		06/06/2022 20:59	WG1873761
(S) n-Triacontane d62	24.3	J2		50.0-150		06/06/2022 20:59	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00507	0.0132	1	06/06/2022 17:32	WG1873766
Acenaphthene	U		0.00461	0.0132	1	06/06/2022 17:32	WG1873766
Acenaphthylene	U		0.00476	0.0132	1	06/06/2022 17:32	WG1873766
Benzo(a)anthracene	U		0.00381	0.0132	1	06/06/2022 17:32	WG1873766
Benzo(a)pyrene	U		0.00395	0.0132	1	06/06/2022 17:32	WG1873766
Benzo(b)fluoranthene	U		0.00337	0.0132	1	06/06/2022 17:32	WG1873766
Benzo(g,h,i)perylene	U		0.00390	0.0132	1	06/06/2022 17:32	WG1873766
Benzo(k)fluoranthene	U		0.00474	0.0132	1	06/06/2022 17:32	WG1873766
Chrysene	U		0.00512	0.0132	1	06/06/2022 17:32	WG1873766
Dibenz(a,h)anthracene	U		0.00379	0.0132	1	06/06/2022 17:32	WG1873766
Fluoranthene	U		0.00500	0.0132	1	06/06/2022 17:32	WG1873766
Fluorene	0.0206		0.00452	0.0132	1	06/06/2022 17:32	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00399	0.0132	1	06/06/2022 17:32	WG1873766
Naphthalene	0.317		0.00900	0.0441	1	06/06/2022 17:32	WG1873766
Phenanthrene	U		0.00509	0.0132	1	06/06/2022 17:32	WG1873766
Pyrene	U		0.00441	0.0132	1	06/06/2022 17:32	WG1873766
1-Methylnaphthalene	0.229		0.00990	0.0441	1	06/06/2022 17:32	WG1873766
2-Methylnaphthalene	0.595		0.00941	0.0441	1	06/06/2022 17:32	WG1873766
2-Chloronaphthalene	U		0.0103	0.0441	1	06/06/2022 17:32	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	103			14.0-149		06/06/2022 17:32	WG1873766
(S) 2-Fluorobiphenyl	75.2			34.0-125		06/06/2022 17:32	WG1873766
(S) p-Terphenyl-d14	82.6			23.0-120		06/06/2022 17:32	WG1873766

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

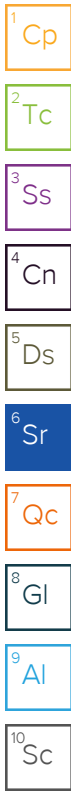
Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	85.1		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	858		91.1	240	81.6	06/03/2022 09:01	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	81.2			50.0-150		06/03/2022 09:01	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	142	341	5000	06/04/2022 07:18	WG1874219
Acrylonitrile	U		13.8	68.2	5000	06/04/2022 07:18	WG1874219
Benzene	U		2.57	6.82	5000	06/04/2022 07:18	WG1874219
Bromobenzene	U		1.88	6.82	5000	06/04/2022 07:18	WG1874219
Bromodichloromethane	U		4.94	6.82	5000	06/04/2022 07:18	WG1874219
Bromoform	U		2.89	6.82	5000	06/04/2022 07:18	WG1874219
Bromomethane	U	C3	7.98	34.1	5000	06/04/2022 07:18	WG1874219
n-Butylbenzene	34.7		1.76	6.82	5000	06/04/2022 07:18	WG1874219
sec-Butylbenzene	20.1		1.38	6.82	5000	06/04/2022 07:18	WG1874219
tert-Butylbenzene	U		1.41	6.82	5000	06/04/2022 07:18	WG1874219
Carbon tetrachloride	U		1.69	6.82	5000	06/04/2022 07:18	WG1874219
Chlorobenzene	U		1.31	6.82	5000	06/04/2022 07:18	WG1874219
Chlorodibromomethane	U		1.53	6.82	5000	06/04/2022 07:18	WG1874219
Chloroethane	U		6.82	34.1	5000	06/04/2022 07:18	WG1874219
Chloroform	U		7.03	34.1	5000	06/04/2022 07:18	WG1874219
Chloromethane	U		4.43	17.1	5000	06/04/2022 07:18	WG1874219
2-Chlorotoluene	U		1.54	6.82	5000	06/04/2022 07:18	WG1874219
4-Chlorotoluene	U		4.72	6.82	5000	06/04/2022 07:18	WG1874219
1,2-Dibromo-3-Chloropropane	U		13.0	34.1	5000	06/04/2022 07:18	WG1874219
1,2-Dibromoethane	U		1.71	6.82	5000	06/04/2022 07:18	WG1874219
Dibromomethane	U		2.39	6.82	5000	06/04/2022 07:18	WG1874219
1,2-Dichlorobenzene	U		2.91	6.82	5000	06/04/2022 07:18	WG1874219
1,3-Dichlorobenzene	U		4.09	6.82	5000	06/04/2022 07:18	WG1874219
1,4-Dichlorobenzene	U		5.66	6.82	5000	06/04/2022 07:18	WG1874219
Dichlorodifluoromethane	U		1.95	34.1	5000	06/04/2022 07:18	WG1874219
1,1-Dichloroethane	U		1.83	6.82	5000	06/04/2022 07:18	WG1874219
1,2-Dichloroethane	U		3.07	6.82	5000	06/04/2022 07:18	WG1874219
1,1-Dichloroethene	U		2.43	6.82	5000	06/04/2022 07:18	WG1874219
cis-1,2-Dichloroethene	U		3.25	6.82	5000	06/04/2022 07:18	WG1874219
trans-1,2-Dichloroethene	U		3.41	6.82	5000	06/04/2022 07:18	WG1874219
1,2-Dichloropropane	U		1.12	6.82	5000	06/04/2022 07:18	WG1874219
1,1-Dichloropropene	U		2.57	6.82	5000	06/04/2022 07:18	WG1874219
1,3-Dichloropropane	U		1.54	6.82	5000	06/04/2022 07:18	WG1874219
cis-1,3-Dichloropropene	U		2.91	6.82	5000	06/04/2022 07:18	WG1874219
trans-1,3-Dichloropropene	U		4.61	6.82	5000	06/04/2022 07:18	WG1874219
2,2-Dichloropropane	U		2.57	6.82	5000	06/04/2022 07:18	WG1874219
Di-isopropyl ether	U		1.51	6.82	5000	06/04/2022 07:18	WG1874219
Ethylbenzene	17.6		2.05	6.82	5000	06/04/2022 07:18	WG1874219
Hexachloro-1,3-butadiene	U		2.33	6.82	5000	06/04/2022 07:18	WG1874219
Isopropylbenzene	12.3		2.91	6.82	5000	06/04/2022 07:18	WG1874219
p-Isopropyltoluene	13.8		1.39	6.82	5000	06/04/2022 07:18	WG1874219
2-Butanone (MEK)	U		31.9	68.2	5000	06/04/2022 07:18	WG1874219
Methylene Chloride	U		6.82	34.1	5000	06/04/2022 07:18	WG1874219
4-Methyl-2-pentanone (MIBK)	14.2	J	6.48	68.2	5000	06/04/2022 07:18	WG1874219



Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		2.39	6.82	5000	06/04/2022 07:18	WG1874219
Naphthalene	194	<u>C3</u>	34.0	34.1	5000	06/04/2022 07:18	WG1874219
n-Propylbenzene	37.5		1.41	6.82	5000	06/04/2022 07:18	WG1874219
Styrene	U		1.53	6.82	5000	06/04/2022 07:18	WG1874219
1,1,1,2-Tetrachloroethane	U		2.02	6.82	5000	06/04/2022 07:18	WG1874219
1,1,2,2-Tetrachloroethane	U		1.58	6.82	5000	06/04/2022 07:18	WG1874219
1,1,2-Trichlorotrifluoroethane	U		2.91	6.82	5000	06/04/2022 07:18	WG1874219
Tetrachloroethene	U		2.22	6.82	5000	06/04/2022 07:18	WG1874219
Toluene	U		8.39	34.1	5000	06/04/2022 07:18	WG1874219
1,2,3-Trichlorobenzene	U		2.09	6.82	5000	06/04/2022 07:18	WG1874219
1,2,4-Trichlorobenzene	U		2.65	6.82	5000	06/04/2022 07:18	WG1874219
1,1,1-Trichloroethane	U		2.52	6.82	5000	06/04/2022 07:18	WG1874219
1,1,2-Trichloroethane	5.36	<u>J</u>	2.91	6.82	5000	06/04/2022 07:18	WG1874219
Trichloroethene	U		1.36	6.82	5000	06/04/2022 07:18	WG1874219
Trichlorofluoromethane	U		2.43	34.1	5000	06/04/2022 07:18	WG1874219
1,2,3-Trichloropropane	U		1.66	17.1	5000	06/04/2022 07:18	WG1874219
1,2,4-Trimethylbenzene	181		1.45	6.82	5000	06/04/2022 07:18	WG1874219
1,2,3-Trimethylbenzene	77.0		1.95	6.82	5000	06/04/2022 07:18	WG1874219
Vinyl chloride	U		1.54	6.82	5000	06/04/2022 07:18	WG1874219
1,3,5-Trimethylbenzene	56.1		1.81	6.82	5000	06/04/2022 07:18	WG1874219
Xylenes, Total	111		3.41	20.5	5000	06/04/2022 07:18	WG1874219
(S) Toluene-d8	107			75.0-131		06/04/2022 07:18	WG1874219
(S) 4-Bromofluorobenzene	102			67.0-138		06/04/2022 07:18	WG1874219
(S) 1,2-Dichloroethane-d4	109			70.0-130		06/04/2022 07:18	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	4700		102	235	1	06/06/2022 21:24	WG1873761
AK103 RRO C25-C36	224	<u>J</u>	78.3	235	1	06/06/2022 21:24	WG1873761
(S) o-Terphenyl	97.6			50.0-150		06/06/2022 21:24	WG1873761
(S) n-Triacontane d62	85.6			50.0-150		06/06/2022 21:24	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00270	0.00705	1	06/06/2022 16:12	WG1873766
Acenaphthene	0.551		0.00246	0.00705	1	06/06/2022 16:12	WG1873766
Acenaphthylene	U		0.00254	0.00705	1	06/06/2022 16:12	WG1873766
Benzo(a)anthracene	0.00234	<u>J</u>	0.00203	0.00705	1	06/06/2022 16:12	WG1873766
Benzo(a)pyrene	U		0.00210	0.00705	1	06/06/2022 16:12	WG1873766
Benzo(b)fluoranthene	0.00201	<u>J</u>	0.00180	0.00705	1	06/06/2022 16:12	WG1873766
Benzo(g,h,i)perylene	U		0.00208	0.00705	1	06/06/2022 16:12	WG1873766
Benzo(k)fluoranthene	U		0.00253	0.00705	1	06/06/2022 16:12	WG1873766
Chrysene	U		0.00273	0.00705	1	06/06/2022 16:12	WG1873766
Dibenz(a,h)anthracene	U		0.00202	0.00705	1	06/06/2022 16:12	WG1873766
Fluoranthene	0.00858		0.00267	0.00705	1	06/06/2022 16:12	WG1873766
Fluorene	1.23		0.00241	0.00705	1	06/06/2022 16:12	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00213	0.00705	1	06/06/2022 16:12	WG1873766
Naphthalene	18.2		0.0959	0.470	20	06/07/2022 14:17	WG1873766
Phenanthrene	0.398		0.00271	0.00705	1	06/06/2022 16:12	WG1873766
Pyrene	0.00797		0.00235	0.00705	1	06/06/2022 16:12	WG1873766
1-Methylnaphthalene	23.5		0.106	0.470	20	06/07/2022 14:17	WG1873766
2-Methylnaphthalene	31.1		0.100	0.470	20	06/07/2022 14:17	WG1873766
2-Chloronaphthalene	U		0.00548	0.0235	1	06/06/2022 16:12	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	2650	J7		14.0-149		06/07/2022 14:17	WG1873766
(S) Nitrobenzene-d5	2320	J1		14.0-149		06/06/2022 16:12	WG1873766
(S) 2-Fluorobiphenyl	94.8	J7		34.0-125		06/07/2022 14:17	WG1873766
(S) 2-Fluorobiphenyl	129	J1		34.0-125		06/06/2022 16:12	WG1873766
(S) p-Terphenyl-d14	85.7			23.0-120		06/06/2022 16:12	WG1873766
(S) p-Terphenyl-d14	117	J7		23.0-120		06/07/2022 14:17	WG1873766

Sample Narrative:

L1498453-12 WG1873766: Surrogate failure due to matrix interference

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	44.6		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	U		2.20	5.79	1.03	06/03/2022 06:49	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	86.8			50.0-150		06/03/2022 06:49	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	U	J4	2.13	5.15	32	06/04/2022 03:22	WG1874219
Acrylonitrile	U		0.208	1.03	32	06/04/2022 03:22	WG1874219
Benzene	U		0.0386	0.103	32	06/04/2022 03:22	WG1874219
Bromobenzene	U		0.0283	0.103	32	06/04/2022 03:22	WG1874219
Bromodichloromethane	U		0.0747	0.103	32	06/04/2022 03:22	WG1874219
Bromoform	U		0.0438	0.103	32	06/04/2022 03:22	WG1874219
Bromomethane	U	C3	0.120	0.515	32	06/04/2022 03:22	WG1874219
n-Butylbenzene	U		0.0266	0.103	32	06/04/2022 03:22	WG1874219
sec-Butylbenzene	U		0.0207	0.103	32	06/04/2022 03:22	WG1874219
tert-Butylbenzene	U		0.0212	0.103	32	06/04/2022 03:22	WG1874219
Carbon tetrachloride	U		0.0256	0.103	32	06/04/2022 03:22	WG1874219
Chlorobenzene	U		0.0198	0.103	32	06/04/2022 03:22	WG1874219
Chlorodibromomethane	U		0.0231	0.103	32	06/04/2022 03:22	WG1874219
Chloroethane	U		0.103	0.515	32	06/04/2022 03:22	WG1874219
Chloroform	U		0.106	0.515	32	06/04/2022 03:22	WG1874219
Chloromethane	U		0.0670	0.258	32	06/04/2022 03:22	WG1874219
2-Chlorotoluene	U		0.0232	0.103	32	06/04/2022 03:22	WG1874219
4-Chlorotoluene	U		0.0712	0.103	32	06/04/2022 03:22	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.196	0.515	32	06/04/2022 03:22	WG1874219
1,2-Dibromoethane	U		0.0258	0.103	32	06/04/2022 03:22	WG1874219
Dibromomethane	U		0.0361	0.103	32	06/04/2022 03:22	WG1874219
1,2-Dichlorobenzene	U		0.0438	0.103	32	06/04/2022 03:22	WG1874219
1,3-Dichlorobenzene	U		0.0618	0.103	32	06/04/2022 03:22	WG1874219
1,4-Dichlorobenzene	U		0.0856	0.103	32	06/04/2022 03:22	WG1874219
Dichlorodifluoromethane	U		0.0296	0.515	32	06/04/2022 03:22	WG1874219
1,1-Dichloroethane	U		0.0276	0.103	32	06/04/2022 03:22	WG1874219
1,2-Dichloroethane	U		0.0464	0.103	32	06/04/2022 03:22	WG1874219
1,1-Dichloroethene	U		0.0367	0.103	32	06/04/2022 03:22	WG1874219
cis-1,2-Dichloroethene	U		0.0489	0.103	32	06/04/2022 03:22	WG1874219
trans-1,2-Dichloroethene	U		0.0515	0.103	32	06/04/2022 03:22	WG1874219
1,2-Dichloropropane	U		0.0169	0.103	32	06/04/2022 03:22	WG1874219
1,1-Dichloropropene	U		0.0386	0.103	32	06/04/2022 03:22	WG1874219
1,3-Dichloropropane	U		0.0232	0.103	32	06/04/2022 03:22	WG1874219
cis-1,3-Dichloropropene	U		0.0438	0.103	32	06/04/2022 03:22	WG1874219
trans-1,3-Dichloropropene	U		0.0695	0.103	32	06/04/2022 03:22	WG1874219
2,2-Dichloropropane	U		0.0386	0.103	32	06/04/2022 03:22	WG1874219
Di-isopropyl ether	U		0.0228	0.103	32	06/04/2022 03:22	WG1874219
Ethylbenzene	U		0.0309	0.103	32	06/04/2022 03:22	WG1874219
Hexachloro-1,3-butadiene	U		0.0351	0.103	32	06/04/2022 03:22	WG1874219
Isopropylbenzene	U		0.0438	0.103	32	06/04/2022 03:22	WG1874219
p-Isopropyltoluene	U		0.0210	0.103	32	06/04/2022 03:22	WG1874219
2-Butanone (MEK)	U		0.483	1.03	32	06/04/2022 03:22	WG1874219
Methylene Chloride	U		0.103	0.515	32	06/04/2022 03:22	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0979	1.03	32	06/04/2022 03:22	WG1874219

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0361	0.103	32	06/04/2022 03:22	WG1874219
Naphthalene	U	C3	0.512	0.515	32	06/04/2022 03:22	WG1874219
n-Propylbenzene	U		0.0212	0.103	32	06/04/2022 03:22	WG1874219
Styrene	U		0.0230	0.103	32	06/04/2022 03:22	WG1874219
1,1,1,2-Tetrachloroethane	U		0.0305	0.103	32	06/04/2022 03:22	WG1874219
1,1,2,2-Tetrachloroethane	U		0.0238	0.103	32	06/04/2022 03:22	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0438	0.103	32	06/04/2022 03:22	WG1874219
Tetrachloroethene	U		0.0335	0.103	32	06/04/2022 03:22	WG1874219
Toluene	U		0.127	0.515	32	06/04/2022 03:22	WG1874219
1,2,3-Trichlorobenzene	U		0.0315	0.103	32	06/04/2022 03:22	WG1874219
1,2,4-Trichlorobenzene	U		0.0399	0.103	32	06/04/2022 03:22	WG1874219
1,1,1-Trichloroethane	U		0.0380	0.103	32	06/04/2022 03:22	WG1874219
1,1,2-Trichloroethane	U		0.0438	0.103	32	06/04/2022 03:22	WG1874219
Trichloroethene	U		0.0206	0.103	32	06/04/2022 03:22	WG1874219
Trichlorofluoromethane	U		0.0367	0.515	32	06/04/2022 03:22	WG1874219
1,2,3-Trichloropropane	U		0.0251	0.258	32	06/04/2022 03:22	WG1874219
1,2,4-Trimethylbenzene	U		0.0217	0.103	32	06/04/2022 03:22	WG1874219
1,2,3-Trimethylbenzene	U		0.0296	0.103	32	06/04/2022 03:22	WG1874219
Vinyl chloride	U		0.0233	0.103	32	06/04/2022 03:22	WG1874219
1,3,5-Trimethylbenzene	U		0.0274	0.103	32	06/04/2022 03:22	WG1874219
Xylenes, Total	U		0.0515	0.309	32	06/04/2022 03:22	WG1874219
(S) Toluene-d8	107			75.0-131		06/04/2022 03:22	WG1874219
(S) 4-Bromofluorobenzene	92.2			67.0-138		06/04/2022 03:22	WG1874219
(S) 1,2-Dichloroethane-d4	106			70.0-130		06/04/2022 03:22	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		194	449	1	06/06/2022 21:11	WG1873761
AK103 RRO C25-C36	785		149	449	1	06/06/2022 21:11	WG1873761
(S) o-Terphenyl	17.1	J2		50.0-150		06/06/2022 21:11	WG1873761
(S) n-Triacontane d62	31.2	J2		50.0-150		06/06/2022 21:11	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00516	0.0135	1	06/06/2022 16:52	WG1873766
Acenaphthene	U		0.00469	0.0135	1	06/06/2022 16:52	WG1873766
Acenaphthylene	U		0.00485	0.0135	1	06/06/2022 16:52	WG1873766
Benzo(a)anthracene	U		0.00388	0.0135	1	06/06/2022 16:52	WG1873766
Benzo(a)pyrene	U		0.00402	0.0135	1	06/06/2022 16:52	WG1873766
Benzo(b)fluoranthene	U		0.00343	0.0135	1	06/06/2022 16:52	WG1873766
Benzo(g,h,i)perylene	U		0.00397	0.0135	1	06/06/2022 16:52	WG1873766
Benzo(k)fluoranthene	U		0.00482	0.0135	1	06/06/2022 16:52	WG1873766
Chrysene	U		0.00521	0.0135	1	06/06/2022 16:52	WG1873766
Dibenz(a,h)anthracene	U		0.00386	0.0135	1	06/06/2022 16:52	WG1873766
Fluoranthene	U		0.00509	0.0135	1	06/06/2022 16:52	WG1873766
Fluorene	U		0.00460	0.0135	1	06/06/2022 16:52	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00406	0.0135	1	06/06/2022 16:52	WG1873766
Naphthalene	U		0.00916	0.0449	1	06/06/2022 16:52	WG1873766
Phenanthrene	U		0.00518	0.0135	1	06/06/2022 16:52	WG1873766
Pyrene	U		0.00449	0.0135	1	06/06/2022 16:52	WG1873766
1-Methylnaphthalene	U		0.0101	0.0449	1	06/06/2022 16:52	WG1873766
2-Methylnaphthalene	U		0.00958	0.0449	1	06/06/2022 16:52	WG1873766
2-Chloronaphthalene	U		0.0105	0.0449	1	06/06/2022 16:52	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	90.1			14.0-149		06/06/2022 16:52	WG1873766
(S) 2-Fluorobiphenyl	77.2			34.0-125		06/06/2022 16:52	WG1873766
(S) p-Terphenyl-d14	79.5			23.0-120		06/06/2022 16:52	WG1873766

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	37.0		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		2.76	7.24	1.07	06/03/2022 07:16	WG1873043
(S) a,a,a-Trifluorotoluene(FID)	83.8			50.0-150		06/03/2022 07:16	WG1873043

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	2.73	6.59	33	06/04/2022 03:42	WG1874219
Acrylonitrile	U		0.266	1.32	33	06/04/2022 03:42	WG1874219
Benzene	U		0.0495	0.132	33	06/04/2022 03:42	WG1874219
Bromobenzene	U		0.0363	0.132	33	06/04/2022 03:42	WG1874219
Bromodichloromethane	U		0.0954	0.132	33	06/04/2022 03:42	WG1874219
Bromoform	U		0.0559	0.132	33	06/04/2022 03:42	WG1874219
Bromomethane	U	C3	0.154	0.659	33	06/04/2022 03:42	WG1874219
n-Butylbenzene	U		0.0340	0.132	33	06/04/2022 03:42	WG1874219
sec-Butylbenzene	U		0.0265	0.132	33	06/04/2022 03:42	WG1874219
tert-Butylbenzene	U		0.0271	0.132	33	06/04/2022 03:42	WG1874219
Carbon tetrachloride	U		0.0327	0.132	33	06/04/2022 03:42	WG1874219
Chlorobenzene	U		0.0253	0.132	33	06/04/2022 03:42	WG1874219
Chlorodibromomethane	U		0.0295	0.132	33	06/04/2022 03:42	WG1874219
Chloroethane	U		0.132	0.659	33	06/04/2022 03:42	WG1874219
Chloroform	U		0.136	0.659	33	06/04/2022 03:42	WG1874219
Chloromethane	U		0.0858	0.329	33	06/04/2022 03:42	WG1874219
2-Chlorotoluene	U		0.0296	0.132	33	06/04/2022 03:42	WG1874219
4-Chlorotoluene	U		0.0910	0.132	33	06/04/2022 03:42	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.250	0.659	33	06/04/2022 03:42	WG1874219
1,2-Dibromoethane	U		0.0329	0.132	33	06/04/2022 03:42	WG1874219
Dibromomethane	U		0.0459	0.132	33	06/04/2022 03:42	WG1874219
1,2-Dichlorobenzene	U		0.0559	0.132	33	06/04/2022 03:42	WG1874219
1,3-Dichlorobenzene	U		0.0790	0.132	33	06/04/2022 03:42	WG1874219
1,4-Dichlorobenzene	U		0.109	0.132	33	06/04/2022 03:42	WG1874219
Dichlorodifluoromethane	U		0.0378	0.659	33	06/04/2022 03:42	WG1874219
1,1-Dichloroethane	U		0.0353	0.132	33	06/04/2022 03:42	WG1874219
1,2-Dichloroethane	U		0.0591	0.132	33	06/04/2022 03:42	WG1874219
1,1-Dichloroethene	U		0.0467	0.132	33	06/04/2022 03:42	WG1874219
cis-1,2-Dichloroethene	U		0.0627	0.132	33	06/04/2022 03:42	WG1874219
trans-1,2-Dichloroethene	U		0.0659	0.132	33	06/04/2022 03:42	WG1874219
1,2-Dichloropropane	U		0.0216	0.132	33	06/04/2022 03:42	WG1874219
1,1-Dichloropropene	U		0.0495	0.132	33	06/04/2022 03:42	WG1874219
1,3-Dichloropropane	U		0.0296	0.132	33	06/04/2022 03:42	WG1874219
cis-1,3-Dichloropropene	U		0.0559	0.132	33	06/04/2022 03:42	WG1874219
trans-1,3-Dichloropropene	U		0.0890	0.132	33	06/04/2022 03:42	WG1874219
2,2-Dichloropropane	U		0.0495	0.132	33	06/04/2022 03:42	WG1874219
Di-isopropyl ether	U		0.0291	0.132	33	06/04/2022 03:42	WG1874219
Ethylbenzene	U		0.0395	0.132	33	06/04/2022 03:42	WG1874219
Hexachloro-1,3-butadiene	U		0.0451	0.132	33	06/04/2022 03:42	WG1874219
Isopropylbenzene	U		0.0559	0.132	33	06/04/2022 03:42	WG1874219
p-Isopropyltoluene	U		0.0269	0.132	33	06/04/2022 03:42	WG1874219
2-Butanone (MEK)	U		0.615	1.32	33	06/04/2022 03:42	WG1874219
Methylene Chloride	U		0.132	0.659	33	06/04/2022 03:42	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.125	1.32	33	06/04/2022 03:42	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0459	0.132	33	06/04/2022 03:42	WG1874219
Naphthalene	U	<u>C3</u>	0.655	0.659	33	06/04/2022 03:42	WG1874219
n-Propylbenzene	U		0.0271	0.132	33	06/04/2022 03:42	WG1874219
Styrene	U		0.0294	0.132	33	06/04/2022 03:42	WG1874219
1,1,1,2-Tetrachloroethane	U		0.0390	0.132	33	06/04/2022 03:42	WG1874219
1,1,2,2-Tetrachloroethane	U		0.0304	0.132	33	06/04/2022 03:42	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0563	0.132	33	06/04/2022 03:42	WG1874219
Tetrachloroethene	U		0.0427	0.132	33	06/04/2022 03:42	WG1874219
Toluene	U		0.162	0.659	33	06/04/2022 03:42	WG1874219
1,2,3-Trichlorobenzene	U		0.0403	0.132	33	06/04/2022 03:42	WG1874219
1,2,4-Trichlorobenzene	U		0.0511	0.132	33	06/04/2022 03:42	WG1874219
1,1,1-Trichloroethane	U		0.0487	0.132	33	06/04/2022 03:42	WG1874219
1,1,2-Trichloroethane	U		0.0559	0.132	33	06/04/2022 03:42	WG1874219
Trichloroethene	U		0.0263	0.132	33	06/04/2022 03:42	WG1874219
Trichlorofluoromethane	U		0.0467	0.659	33	06/04/2022 03:42	WG1874219
1,2,3-Trichloropropane	U		0.0321	0.329	33	06/04/2022 03:42	WG1874219
1,2,4-Trimethylbenzene	U		0.0278	0.132	33	06/04/2022 03:42	WG1874219
1,2,3-Trimethylbenzene	U		0.0378	0.132	33	06/04/2022 03:42	WG1874219
Vinyl chloride	U		0.0298	0.132	33	06/04/2022 03:42	WG1874219
1,3,5-Trimethylbenzene	U		0.0351	0.132	33	06/04/2022 03:42	WG1874219
Xylenes, Total	U		0.0659	0.395	33	06/04/2022 03:42	WG1874219
(S) Toluene-d8	100			75.0-131		06/04/2022 03:42	WG1874219
(S) 4-Bromofluorobenzene	85.4			67.0-138		06/04/2022 03:42	WG1874219
(S) 1,2-Dichloroethane-d4	104			70.0-130		06/04/2022 03:42	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	432	<u>J</u>	234	540	1	06/07/2022 04:51	WG1874252
AK103 RRO C25-C36	5080		180	540	1	06/07/2022 04:51	WG1874252
(S) o-Terphenyl	83.1			50.0-150		06/07/2022 04:51	WG1874252
(S) n-Triacontane d62	76.9			50.0-150		06/07/2022 04:51	WG1874252

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00621	0.0162	1	06/06/2022 17:12	WG1873766
Acenaphthene	U		0.00565	0.0162	1	06/06/2022 17:12	WG1873766
Acenaphthylene	U		0.00584	0.0162	1	06/06/2022 17:12	WG1873766
Benzo(a)anthracene	U		0.00467	0.0162	1	06/06/2022 17:12	WG1873766
Benzo(a)pyrene	U		0.00484	0.0162	1	06/06/2022 17:12	WG1873766
Benzo(b)fluoranthene	U		0.00413	0.0162	1	06/06/2022 17:12	WG1873766
Benzo(g,h,i)perylene	U		0.00478	0.0162	1	06/06/2022 17:12	WG1873766
Benzo(k)fluoranthene	U		0.00581	0.0162	1	06/06/2022 17:12	WG1873766
Chrysene	U		0.00627	0.0162	1	06/06/2022 17:12	WG1873766
Dibenz(a,h)anthracene	U		0.00465	0.0162	1	06/06/2022 17:12	WG1873766
Fluoranthene	U		0.00613	0.0162	1	06/06/2022 17:12	WG1873766
Fluorene	0.0140	<u>J</u>	0.00554	0.0162	1	06/06/2022 17:12	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00489	0.0162	1	06/06/2022 17:12	WG1873766
Naphthalene	U		0.0110	0.0540	1	06/06/2022 17:12	WG1873766
Phenanthrene	U		0.00624	0.0162	1	06/06/2022 17:12	WG1873766
Pyrene	U		0.00540	0.0162	1	06/06/2022 17:12	WG1873766
1-Methylnaphthalene	U		0.0121	0.0540	1	06/06/2022 17:12	WG1873766
2-Methylnaphthalene	U		0.0115	0.0540	1	06/06/2022 17:12	WG1873766
2-Chloronaphthalene	U		0.0126	0.0540	1	06/06/2022 17:12	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	99.6			14.0-149		06/06/2022 17:12	WG1873766
(S) 2-Fluorobiphenyl	72.5			34.0-125		06/06/2022 17:12	WG1873766
(S) p-Terphenyl-d14	80.3			23.0-120		06/06/2022 17:12	WG1873766

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
Total Solids	33.1		1	06/02/2022 11:23	WG1872649

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
TPHGAK C6 to C10	28.8	J	11.9	31.4	4.16	06/06/2022 05:19	WG1874476
(S) a,a,a-Trifluorotoluene(FID)	85.2			50.0-150		06/06/2022 05:19	WG1874476

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
Acetone	U		53.8	130	525	06/06/2022 04:50	WG1874574
Acrylonitrile	U		5.23	25.9	525	06/06/2022 04:50	WG1874574
Benzene	U		0.972	2.59	525	06/06/2022 04:50	WG1874574
Bromobenzene	U		0.711	2.59	525	06/06/2022 04:50	WG1874574
Bromodichloromethane	U		1.88	2.59	525	06/06/2022 04:50	WG1874574
Bromoform	U		1.10	2.59	525	06/06/2022 04:50	WG1874574
Bromomethane	U		3.03	13.0	525	06/06/2022 04:50	WG1874574
n-Butylbenzene	2.22	J	0.666	2.59	525	06/06/2022 04:50	WG1874574
sec-Butylbenzene	1.69	J	0.523	2.59	525	06/06/2022 04:50	WG1874574
tert-Butylbenzene	U		0.533	2.59	525	06/06/2022 04:50	WG1874574
Carbon tetrachloride	U		0.642	2.59	525	06/06/2022 04:50	WG1874574
Chlorobenzene	U		0.499	2.59	525	06/06/2022 04:50	WG1874574
Chlorodibromomethane	U		0.582	2.59	525	06/06/2022 04:50	WG1874574
Chloroethane	U	C3	2.59	13.0	525	06/06/2022 04:50	WG1874574
Chloroform	U		2.67	13.0	525	06/06/2022 04:50	WG1874574
Chloromethane	U		1.68	6.47	525	06/06/2022 04:50	WG1874574
2-Chlorotoluene	U		0.582	2.59	525	06/06/2022 04:50	WG1874574
4-Chlorotoluene	U		1.79	2.59	525	06/06/2022 04:50	WG1874574
1,2-Dibromo-3-Chloropropane	U		4.93	13.0	525	06/06/2022 04:50	WG1874574
1,2-Dibromoethane	U		0.647	2.59	525	06/06/2022 04:50	WG1874574
Dibromomethane	U		0.908	2.59	525	06/06/2022 04:50	WG1874574
1,2-Dichlorobenzene	U		1.10	2.59	525	06/06/2022 04:50	WG1874574
1,3-Dichlorobenzene	U		1.55	2.59	525	06/06/2022 04:50	WG1874574
1,4-Dichlorobenzene	U		2.15	2.59	525	06/06/2022 04:50	WG1874574
Dichlorodifluoromethane	U		0.745	13.0	525	06/06/2022 04:50	WG1874574
1,1-Dichloroethane	U		0.696	2.59	525	06/06/2022 04:50	WG1874574
1,2-Dichloroethane	U		1.16	2.59	525	06/06/2022 04:50	WG1874574
1,1-Dichloroethene	U		0.918	2.59	525	06/06/2022 04:50	WG1874574
cis-1,2-Dichloroethene	U		1.23	2.59	525	06/06/2022 04:50	WG1874574
trans-1,2-Dichloroethene	U		1.30	2.59	525	06/06/2022 04:50	WG1874574
1,2-Dichloropropane	U		0.425	2.59	525	06/06/2022 04:50	WG1874574
1,1-Dichloropropene	U		0.972	2.59	525	06/06/2022 04:50	WG1874574
1,3-Dichloropropane	U		0.582	2.59	525	06/06/2022 04:50	WG1874574
cis-1,3-Dichloropropene	U		1.10	2.59	525	06/06/2022 04:50	WG1874574
trans-1,3-Dichloropropene	U		1.75	2.59	525	06/06/2022 04:50	WG1874574
2,2-Dichloropropane	U		0.972	2.59	525	06/06/2022 04:50	WG1874574
Di-isopropyl ether	U		0.573	2.59	525	06/06/2022 04:50	WG1874574
Ethylbenzene	1.26	J	0.775	2.59	525	06/06/2022 04:50	WG1874574
Hexachloro-1,3-butadiene	U		0.889	2.59	525	06/06/2022 04:50	WG1874574
Isopropylbenzene	1.36	J	1.10	2.59	525	06/06/2022 04:50	WG1874574
p-Isopropyltoluene	0.859	J	0.528	2.59	525	06/06/2022 04:50	WG1874574
2-Butanone (MEK)	U		12.1	25.9	525	06/06/2022 04:50	WG1874574
Methylene Chloride	U		2.59	13.0	525	06/06/2022 04:50	WG1874574
4-Methyl-2-pentanone (MIBK)	U		2.46	25.9	525	06/06/2022 04:50	WG1874574

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.908	2.59	525	06/06/2022 04:50	WG1874574
Naphthalene	U	C3	12.9	13.0	525	06/06/2022 04:50	WG1874574
n-Propylbenzene	3.15		0.533	2.59	525	06/06/2022 04:50	WG1874574
Styrene	U		0.578	2.59	525	06/06/2022 04:50	WG1874574
1,1,1,2-Tetrachloroethane	U		0.765	2.59	525	06/06/2022 04:50	WG1874574
1,1,2,2-Tetrachloroethane	U		0.597	2.59	525	06/06/2022 04:50	WG1874574
1,1,2-Trichlorotrifluoroethane	U		1.11	2.59	525	06/06/2022 04:50	WG1874574
Tetrachloroethene	U		0.844	2.59	525	06/06/2022 04:50	WG1874574
Toluene	U		3.19	13.0	525	06/06/2022 04:50	WG1874574
1,2,3-Trichlorobenzene	U		0.795	2.59	525	06/06/2022 04:50	WG1874574
1,2,4-Trichlorobenzene	U		1.01	2.59	525	06/06/2022 04:50	WG1874574
1,1,1-Trichloroethane	U		0.958	2.59	525	06/06/2022 04:50	WG1874574
1,1,2-Trichloroethane	U		1.10	2.59	525	06/06/2022 04:50	WG1874574
Trichloroethene	U		0.518	2.59	525	06/06/2022 04:50	WG1874574
Trichlorofluoromethane	U		0.923	13.0	525	06/06/2022 04:50	WG1874574
1,2,3-Trichloropropane	U		0.632	6.47	525	06/06/2022 04:50	WG1874574
1,2,4-Trimethylbenzene	17.0		0.548	2.59	525	06/06/2022 04:50	WG1874574
1,2,3-Trimethylbenzene	7.65		0.745	2.59	525	06/06/2022 04:50	WG1874574
Vinyl chloride	U		0.587	2.59	525	06/06/2022 04:50	WG1874574
1,3,5-Trimethylbenzene	4.89		0.691	2.59	525	06/06/2022 04:50	WG1874574
Xylenes, Total	11.9		1.30	7.80	525	06/06/2022 04:50	WG1874574
(S) Toluene-d8	105			75.0-131		06/06/2022 04:50	WG1874574
(S) 4-Bromofluorobenzene	103			67.0-138		06/06/2022 04:50	WG1874574
(S) 1,2-Dichloroethane-d4	99.0			70.0-130		06/06/2022 04:50	WG1874574



Sample Narrative:

L1498453-15 WG1874574: Non-target compounds too high to run at a lower dilution.

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	945		262	604	1	06/07/2022 05:16	WG1874252
AK103 RRO C25-C36	6040		201	604	1	06/07/2022 05:16	WG1874252
(S) o-Terphenyl	62.9			50.0-150		06/07/2022 05:16	WG1874252
(S) n-Triacontane d62	63.1			50.0-150		06/07/2022 05:16	WG1874252

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00695	0.0181	1	06/06/2022 18:32	WG1873766
Acenaphthene	0.176		0.00631	0.0181	1	06/06/2022 18:32	WG1873766
Acenaphthylene	U		0.00652	0.0181	1	06/06/2022 18:32	WG1873766
Benzo(a)anthracene	U		0.00523	0.0181	1	06/06/2022 18:32	WG1873766
Benzo(a)pyrene	U		0.00541	0.0181	1	06/06/2022 18:32	WG1873766
Benzo(b)fluoranthene	U		0.00462	0.0181	1	06/06/2022 18:32	WG1873766
Benzo(g,h,i)perylene	U		0.00535	0.0181	1	06/06/2022 18:32	WG1873766
Benzo(k)fluoranthene	U		0.00649	0.0181	1	06/06/2022 18:32	WG1873766
Chrysene	U		0.00701	0.0181	1	06/06/2022 18:32	WG1873766
Dibenz(a,h)anthracene	U		0.00520	0.0181	1	06/06/2022 18:32	WG1873766
Fluoranthene	U		0.00686	0.0181	1	06/06/2022 18:32	WG1873766
Fluorene	0.435		0.00619	0.0181	1	06/06/2022 18:32	WG1873766
Indeno(1,2,3-cd)pyrene	U		0.00547	0.0181	1	06/06/2022 18:32	WG1873766
Naphthalene	10.9		0.0123	0.0604	1	06/06/2022 18:32	WG1873766
Phenanthrene	0.117		0.00698	0.0181	1	06/06/2022 18:32	WG1873766
Pyrene	U		0.00604	0.0181	1	06/06/2022 18:32	WG1873766

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	9.82		0.0136	0.0604	1	06/06/2022 18:32	WG1873766
2-Methylnaphthalene	14.9		0.129	0.604	10	06/07/2022 13:57	WG1873766
2-Chloronaphthalene	U		0.0141	0.0604	1	06/06/2022 18:32	WG1873766
(S) Nitrobenzene-d5	0.000	J2		14.0-149		06/06/2022 18:32	WG1873766
(S) Nitrobenzene-d5	0.000	J2		14.0-149		06/07/2022 13:57	WG1873766
(S) 2-Fluorobiphenyl	65.7			34.0-125		06/06/2022 18:32	WG1873766
(S) 2-Fluorobiphenyl	68.3			34.0-125		06/07/2022 13:57	WG1873766
(S) p-Terphenyl-d14	79.4			23.0-120		06/07/2022 13:57	WG1873766
(S) p-Terphenyl-d14	67.2			23.0-120		06/06/2022 18:32	WG1873766

Sample Narrative:

L1498453-15 WG1873766: Surrogate failure due to matrix interference

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799027-1 06/02/22 17:03

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

¹ Cp

² Tc

³ Ss

L1498453-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1498453-03 06/02/22 17:03 • (DUP) R3799027-3 06/02/22 17:03

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	88.4	87.5	1	1.05		10

⁴ Cn

⁵ Ds

Laboratory Control Sample (LCS)

(LCS) R3799027-2 06/02/22 17:03

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3798960-1 06/02/22 11:23

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

L1498453-13 Original Sample (OS) • Duplicate (DUP)

(OS) L1498453-13 06/02/22 11:23 • (DUP) R3798960-3 06/02/22 11:23

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	44.6	45.0	1	0.925		10

Laboratory Control Sample (LCS)

(LCS) R3798960-2 06/02/22 11:23

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	99.9	85.0-115	

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3799125-2 06/02/22 11:22

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHGAK C6 to C10	U		0.950	2.50
(S) a,a,a-Trifluorotoluene(FID)	90.1			60.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799125-1 06/02/22 09:59 • (LCSD) R3799125-3 06/02/22 16:39

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	125	135	119	108	95.2	60.0-120			12.6	20
(S) a,a,a-Trifluorotoluene(FID)				105	107	60.0-120				

5 Ds

6 Sr

7 Qc

L1497710-87 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-87 06/02/22 13:35 • (MS) R3799125-4 06/02/22 22:08 • (MSD) R3799125-5 06/02/22 22:35

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	218	U	50.8	78.8	23.4	36.2	1.36	60.0-120	J6	J3 J6	43.2	30
(S) a,a,a-Trifluorotoluene(FID)					84.7	85.1		50.0-150				

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799492-3 06/03/22 03:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHGAK C6 to C10	U		0.950	2.50
(S) a,a,a-Trifluorotoluene(FID)	93.6			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799492-1 06/03/22 01:47 • (LCSD) R3799492-2 06/03/22 02:14

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	125	97.9	95.1	78.3	76.1	60.0-120			2.90	20
(S) a,a,a-Trifluorotoluene(FID)				106	104	60.0-120				

L1499526-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499526-01 06/03/22 07:42 • (MS) R3799492-4 06/03/22 09:54 • (MSD) R3799492-5 06/03/22 10:21

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	59.0	U	3.10	10.3	5.25	17.5	1	60.0-120	J6	J3 J6	107	30
(S) a,a,a-Trifluorotoluene(FID)					81.1	81.7		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799493-3 06/03/22 17:18

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHGAK C6 to C10	U		0.950	2.50
(S) a,a,a-Trifluorotoluene(FID)	93.5			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799493-1 06/03/22 15:59 • (LCSD) R3799493-2 06/03/22 16:25

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	125	129	131	103	105	60.0-120			1.54	20
(S) a,a,a-Trifluorotoluene(FID)				107	108	60.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3800016-3 06/06/22 04:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPHGAK C6 to C10	U		0.950	2.50
(S) a,a,a-Trifluorotoluene(FID)	99.3			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800016-1 06/06/22 03:24 • (LCSD) R3800016-2 06/06/22 03:50

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPHGAK C6 to C10	125	109	107	87.2	85.6	60.0-120			1.85	20
(S) a,a,a-Trifluorotoluene(FID)				114	109	60.0-120				

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3799546-3 06/04/22 01:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.518	1.25
Acrylonitrile	U		0.0505	0.250
Benzene	U		0.00938	0.0250
Bromobenzene	U		0.00688	0.0250
Bromodichloromethane	U		0.0181	0.0250
Bromoform	U		0.0106	0.0250
Bromomethane	U		0.0293	0.125
n-Butylbenzene	U		0.00645	0.0250
sec-Butylbenzene	U		0.00503	0.0250
tert-Butylbenzene	U		0.00515	0.0250
Carbon tetrachloride	U		0.00620	0.0250
Chlorobenzene	U		0.00480	0.0250
Chlorodibromomethane	U		0.00560	0.0250
Chloroethane	U		0.0250	0.125
Chloroform	U		0.0258	0.125
Chloromethane	U		0.0163	0.0625
2-Chlorotoluene	U		0.00563	0.0250
4-Chlorotoluene	U		0.0173	0.0250
1,2-Dibromo-3-Chloropropane	U		0.0475	0.125
1,2-Dibromoethane	U		0.00625	0.0250
Dibromomethane	U		0.00875	0.0250
1,2-Dichlorobenzene	U		0.0106	0.0250
1,3-Dichlorobenzene	U		0.0150	0.0250
1,4-Dichlorobenzene	U		0.0208	0.0250
Dichlorodifluoromethane	U		0.00718	0.125
1,1-Dichloroethane	U		0.00670	0.0250
1,2-Dichloroethane	U		0.0113	0.0250
1,1-Dichloroethene	U		0.00888	0.0250
cis-1,2-Dichloroethene	U		0.0119	0.0250
trans-1,2-Dichloroethene	U		0.0125	0.0250
1,2-Dichloropropane	U		0.00410	0.0250
1,1-Dichloropropene	U		0.00938	0.0250
1,3-Dichloropropane	U		0.00563	0.0250
cis-1,3-Dichloropropene	U		0.0106	0.0250
trans-1,3-Dichloropropene	U		0.0169	0.0250
2,2-Dichloropropane	U		0.00938	0.0250
Di-isopropyl ether	U		0.00553	0.0250
Ethylbenzene	U		0.00750	0.0250
Hexachloro-1,3-butadiene	U		0.00855	0.0250
Isopropylbenzene	U		0.0106	0.0250

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3799546-3 06/04/22 01:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00510	0.0250
2-Butanone (MEK)	U		0.117	0.250
Methylene Chloride	U		0.0250	0.125
4-Methyl-2-pentanone (MIBK)	U		0.0238	0.250
Methyl tert-butyl ether	U		0.00875	0.0250
Naphthalene	U		0.125	0.125
n-Propylbenzene	U		0.00515	0.0250
Styrene	U		0.00558	0.0250
1,1,1,2-Tetrachloroethane	U		0.00740	0.0250
1,1,2,2-Tetrachloroethane	U		0.00578	0.0250
1,1,2-Trichlorotrifluoroethane	U		0.0107	0.0250
Tetrachloroethene	U		0.00813	0.0250
Toluene	U		0.0308	0.125
1,2,3-Trichlorobenzene	U		0.00765	0.0250
1,2,4-Trichlorobenzene	U		0.00970	0.0250
1,1,1-Trichloroethane	U		0.00925	0.0250
1,1,2-Trichloroethane	U		0.0106	0.0250
Trichloroethene	U		0.00500	0.0250
Trichlorofluoromethane	U		0.00890	0.125
1,2,3-Trichloropropane	U		0.00610	0.0625
1,2,4-Trimethylbenzene	U		0.00528	0.0250
1,2,3-Trimethylbenzene	U		0.00718	0.0250
Vinyl chloride	U		0.00565	0.0250
1,3,5-Trimethylbenzene	U		0.00665	0.0250
Xylenes, Total	U		0.0125	0.0750
(S) Toluene-d8	106			75.0-131
(S) 4-Bromofluorobenzene	88.9			67.0-138
(S) 1,2-Dichloroethane-d4	99.5			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799546-1 06/03/22 23:47 • (LCSD) R3799546-2 06/04/22 00:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0370	0.0465	148	186	10.0-160		J4	22.8	31
Acrylonitrile	0.0250	0.0338	0.0367	135	147	45.0-153			8.23	22
Benzene	0.00500	0.00483	0.00510	96.6	102	70.0-123			5.44	20
Bromobenzene	0.00500	0.00513	0.00525	103	105	73.0-121			2.31	20
Bromodichloromethane	0.00500	0.00504	0.00548	101	110	73.0-121			8.37	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799546-1 06/03/22 23:47 • (LCSD) R3799546-2 06/04/22 00:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.00500	0.00513	0.00525	103	105	64.0-132			2.31	20
Bromomethane	0.00500	0.00377	0.00406	75.4	81.2	56.0-147			7.41	20
n-Butylbenzene	0.00500	0.00440	0.00481	88.0	96.2	68.0-135			8.90	20
sec-Butylbenzene	0.00500	0.00444	0.00469	88.8	93.8	74.0-130			5.48	20
tert-Butylbenzene	0.00500	0.00451	0.00466	90.2	93.2	75.0-127			3.27	20
Carbon tetrachloride	0.00500	0.00521	0.00563	104	113	66.0-128			7.75	20
Chlorobenzene	0.00500	0.00465	0.00498	93.0	99.6	76.0-128			6.85	20
Chlorodibromomethane	0.00500	0.00522	0.00523	104	105	74.0-127			0.191	20
Chloroethane	0.00500	0.00495	0.00539	99.0	108	61.0-134			8.51	20
Chloroform	0.00500	0.00436	0.00476	87.2	95.2	72.0-123			8.77	20
Chloromethane	0.00500	0.00477	0.00509	95.4	102	51.0-138			6.49	20
2-Chlorotoluene	0.00500	0.00523	0.00519	105	104	75.0-124			0.768	20
4-Chlorotoluene	0.00500	0.00517	0.00534	103	107	75.0-124			3.24	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00523	0.00522	105	104	59.0-130			0.191	20
1,2-Dibromoethane	0.00500	0.00516	0.00513	103	103	74.0-128			0.583	20
Dibromomethane	0.00500	0.00497	0.00520	99.4	104	75.0-122			4.52	20
1,2-Dichlorobenzene	0.00500	0.00465	0.00478	93.0	95.6	76.0-124			2.76	20
1,3-Dichlorobenzene	0.00500	0.00490	0.00514	98.0	103	76.0-125			4.78	20
1,4-Dichlorobenzene	0.00500	0.00451	0.00460	90.2	92.0	77.0-121			1.98	20
Dichlorodifluoromethane	0.00500	0.00403	0.00476	80.6	95.2	43.0-156			16.6	20
1,1-Dichloroethane	0.00500	0.00531	0.00560	106	112	70.0-127			5.32	20
1,2-Dichloroethane	0.00500	0.00524	0.00519	105	104	65.0-131			0.959	20
1,1-Dichloroethene	0.00500	0.00526	0.00582	105	116	65.0-131			10.1	20
cis-1,2-Dichloroethene	0.00500	0.00437	0.00504	87.4	101	73.0-125			14.2	20
trans-1,2-Dichloroethene	0.00500	0.00445	0.00480	89.0	96.0	71.0-125			7.57	20
1,2-Dichloropropane	0.00500	0.00540	0.00593	108	119	74.0-125			9.36	20
1,1-Dichloropropene	0.00500	0.00493	0.00515	98.6	103	73.0-125			4.37	20
1,3-Dichloropropane	0.00500	0.00516	0.00511	103	102	80.0-125			0.974	20
cis-1,3-Dichloropropene	0.00500	0.00494	0.00523	98.8	105	76.0-127			5.70	20
trans-1,3-Dichloropropene	0.00500	0.00492	0.00515	98.4	103	73.0-127			4.57	20
2,2-Dichloropropane	0.00500	0.00457	0.00470	91.4	94.0	59.0-135			2.80	20
Di-isopropyl ether	0.00500	0.00500	0.00521	100	104	60.0-136			4.11	20
Ethylbenzene	0.00500	0.00465	0.00496	93.0	99.2	74.0-126			6.45	20
Hexachloro-1,3-butadiene	0.00500	0.00434	0.00482	86.8	96.4	57.0-150			10.5	20
Isopropylbenzene	0.00500	0.00412	0.00437	82.4	87.4	72.0-127			5.89	20
p-Isopropyltoluene	0.00500	0.00465	0.00489	93.0	97.8	72.0-133			5.03	20
2-Butanone (MEK)	0.0250	0.0332	0.0365	133	146	30.0-160			9.47	24
Methylene Chloride	0.00500	0.00480	0.00508	96.0	102	68.0-123			5.67	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0301	0.0313	120	125	56.0-143			3.91	20
Methyl tert-butyl ether	0.00500	0.00412	0.00462	82.4	92.4	66.0-132			11.4	20

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799546-1 06/03/22 23:47 • (LCSD) R3799546-2 06/04/22 00:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.00500	0.00380	0.00402	76.0	80.4	59.0-130			5.63	20
n-Propylbenzene	0.00500	0.00495	0.00522	99.0	104	74.0-126			5.31	20
Styrene	0.00500	0.00438	0.00449	87.6	89.8	72.0-127			2.48	20
1,1,1,2-Tetrachloroethane	0.00500	0.00469	0.00490	93.8	98.0	74.0-129			4.38	20
1,1,2,2-Tetrachloroethane	0.00500	0.00503	0.00502	101	100	68.0-128			0.199	20
1,1,2-Trichlorotrifluoroethane	0.00500	0.00447	0.00473	89.4	94.6	61.0-139			5.65	20
Tetrachloroethene	0.00500	0.00487	0.00521	97.4	104	70.0-136			6.75	20
Toluene	0.00500	0.00465	0.00474	93.0	94.8	75.0-121			1.92	20
1,2,3-Trichlorobenzene	0.00500	0.00409	0.00415	81.8	83.0	59.0-139			1.46	20
1,2,4-Trichlorobenzene	0.00500	0.00399	0.00415	79.8	83.0	62.0-137			3.93	20
1,1,1-Trichloroethane	0.00500	0.00508	0.00552	102	110	69.0-126			8.30	20
1,1,2-Trichloroethane	0.00500	0.00515	0.00515	103	103	78.0-123			0.000	20
Trichloroethene	0.00500	0.00536	0.00571	107	114	76.0-126			6.32	20
Trichlorofluoromethane	0.00500	0.00404	0.00427	80.8	85.4	61.0-142			5.54	20
1,2,3-Trichloropropane	0.00500	0.00540	0.00565	108	113	67.0-129			4.52	20
1,2,4-Trimethylbenzene	0.00500	0.00444	0.00476	88.8	95.2	70.0-126			6.96	20
1,2,3-Trimethylbenzene	0.00500	0.00459	0.00469	91.8	93.8	74.0-124			2.16	20
Vinyl chloride	0.00500	0.00461	0.00490	92.2	98.0	63.0-134			6.10	20
1,3,5-Trimethylbenzene	0.00500	0.00430	0.00474	86.0	94.8	73.0-127			9.73	20
Xylenes, Total	0.0150	0.0130	0.0136	86.7	90.7	72.0-127			4.51	20
(S) Toluene-d8				103	102	75.0-131				
(S) 4-Bromofluorobenzene				94.5	91.4	67.0-138				
(S) 1,2-Dichloroethane-d4				112	112	70.0-130				

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3799623-4 06/06/22 00:54

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.518	1.25
Acrylonitrile	U		0.0505	0.250
Benzene	U		0.00938	0.0250
Bromobenzene	U		0.00688	0.0250
Bromodichloromethane	U		0.0181	0.0250
Bromoform	U		0.0106	0.0250
Bromomethane	U		0.0293	0.125
n-Butylbenzene	U		0.00645	0.0250
sec-Butylbenzene	U		0.00503	0.0250
tert-Butylbenzene	U		0.00515	0.0250
Carbon tetrachloride	U		0.00620	0.0250
Chlorobenzene	U		0.00480	0.0250
Chlorodibromomethane	U		0.00560	0.0250
Chloroethane	U		0.0250	0.125
Chloroform	U		0.0258	0.125
Chloromethane	U		0.0163	0.0625
2-Chlorotoluene	U		0.00563	0.0250
4-Chlorotoluene	U		0.0173	0.0250
1,2-Dibromo-3-Chloropropane	U		0.0475	0.125
1,2-Dibromoethane	U		0.00625	0.0250
Dibromomethane	U		0.00875	0.0250
1,2-Dichlorobenzene	U		0.0106	0.0250
1,3-Dichlorobenzene	U		0.0150	0.0250
1,4-Dichlorobenzene	U		0.0208	0.0250
Dichlorodifluoromethane	U		0.00718	0.125
1,1-Dichloroethane	U		0.00670	0.0250
1,2-Dichloroethane	U		0.0113	0.0250
1,1-Dichloroethene	U		0.00888	0.0250
cis-1,2-Dichloroethene	U		0.0119	0.0250
trans-1,2-Dichloroethene	U		0.0125	0.0250
1,2-Dichloropropane	U		0.00410	0.0250
1,1-Dichloropropene	U		0.00938	0.0250
1,3-Dichloropropane	U		0.00563	0.0250
cis-1,3-Dichloropropene	U		0.0106	0.0250
trans-1,3-Dichloropropene	U		0.0169	0.0250
2,2-Dichloropropane	U		0.00938	0.0250
Di-isopropyl ether	U		0.00553	0.0250
Ethylbenzene	U		0.00750	0.0250
Hexachloro-1,3-butadiene	U		0.00855	0.0250
Isopropylbenzene	U		0.0106	0.0250

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3799623-4 06/06/22 00:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
p-Isopropyltoluene	U		0.00510	0.0250
2-Butanone (MEK)	U		0.117	0.250
Methylene Chloride	U		0.0250	0.125
4-Methyl-2-pentanone (MIBK)	U		0.0238	0.250
Methyl tert-butyl ether	U		0.00875	0.0250
Naphthalene	U		0.125	0.125
n-Propylbenzene	U		0.00515	0.0250
Styrene	U		0.00558	0.0250
1,1,1,2-Tetrachloroethane	U		0.00740	0.0250
1,1,2,2-Tetrachloroethane	U		0.00578	0.0250
1,1,2-Trichlorotrifluoroethane	U		0.0107	0.0250
Tetrachloroethene	U		0.00813	0.0250
Toluene	U		0.0308	0.125
1,2,3-Trichlorobenzene	U		0.00765	0.0250
1,2,4-Trichlorobenzene	U		0.00970	0.0250
1,1,1-Trichloroethane	U		0.00925	0.0250
1,1,2-Trichloroethane	U		0.0106	0.0250
Trichloroethene	U		0.00500	0.0250
Trichlorofluoromethane	U		0.00890	0.125
1,2,3-Trichloropropane	U		0.00610	0.0625
1,2,4-Trimethylbenzene	0.00581	U	0.00528	0.0250
1,2,3-Trimethylbenzene	U		0.00718	0.0250
Vinyl chloride	U		0.00565	0.0250
1,3,5-Trimethylbenzene	U		0.00665	0.0250
Xylenes, Total	U		0.0125	0.0750
(S) Toluene-d8	105			75.0-131
(S) 4-Bromofluorobenzene	104			67.0-138
(S) 1,2-Dichloroethane-d4	90.8			70.0-130



Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799623-1 06/05/22 20:56 • (LCSD) R3799623-2 06/05/22 21:20

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Acetone	0.125	0.150	0.144	120	115	10.0-160			4.08	31
Acrylonitrile	0.125	0.129	0.122	103	97.6	45.0-153			5.58	22
Benzene	0.0250	0.0229	0.0225	91.6	90.0	70.0-123			1.76	20
Bromobenzene	0.0250	0.0230	0.0225	92.0	90.0	73.0-121			2.20	20
Bromodichloromethane	0.0250	0.0234	0.0228	93.6	91.2	73.0-121			2.60	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799623-1 06/05/22 20:56 • (LCSD) R3799623-2 06/05/22 21:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Bromoform	0.0250	0.0234	0.0226	93.6	90.4	64.0-132			3.48	20
Bromomethane	0.0250	0.0256	0.0258	102	103	56.0-147			0.778	20
n-Butylbenzene	0.0250	0.0250	0.0238	100	95.2	68.0-135			4.92	20
sec-Butylbenzene	0.0250	0.0245	0.0235	98.0	94.0	74.0-130			4.17	20
tert-Butylbenzene	0.0250	0.0240	0.0229	96.0	91.6	75.0-127			4.69	20
Carbon tetrachloride	0.0250	0.0204	0.0199	81.6	79.6	66.0-128			2.48	20
Chlorobenzene	0.0250	0.0232	0.0228	92.8	91.2	76.0-128			1.74	20
Chlorodibromomethane	0.0250	0.0227	0.0224	90.8	89.6	74.0-127			1.33	20
Chloroethane	0.0250	0.0192	0.0193	76.8	77.2	61.0-134			0.519	20
Chloroform	0.0250	0.0229	0.0225	91.6	90.0	72.0-123			1.76	20
Chloromethane	0.0250	0.0270	0.0271	108	108	51.0-138			0.370	20
2-Chlorotoluene	0.0250	0.0243	0.0235	97.2	94.0	75.0-124			3.35	20
4-Chlorotoluene	0.0250	0.0237	0.0232	94.8	92.8	75.0-124			2.13	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0224	0.0211	89.6	84.4	59.0-130			5.98	20
1,2-Dibromoethane	0.0250	0.0242	0.0238	96.8	95.2	74.0-128			1.67	20
Dibromomethane	0.0250	0.0228	0.0220	91.2	88.0	75.0-122			3.57	20
1,2-Dichlorobenzene	0.0250	0.0234	0.0227	93.6	90.8	76.0-124			3.04	20
1,3-Dichlorobenzene	0.0250	0.0237	0.0227	94.8	90.8	76.0-125			4.31	20
1,4-Dichlorobenzene	0.0250	0.0234	0.0228	93.6	91.2	77.0-121			2.60	20
Dichlorodifluoromethane	0.0250	0.0216	0.0210	86.4	84.0	43.0-156			2.82	20
1,1-Dichloroethane	0.0250	0.0240	0.0236	96.0	94.4	70.0-127			1.68	20
1,2-Dichloroethane	0.0250	0.0233	0.0230	93.2	92.0	65.0-131			1.30	20
1,1-Dichloroethene	0.0250	0.0242	0.0236	96.8	94.4	65.0-131			2.51	20
cis-1,2-Dichloroethene	0.0250	0.0234	0.0229	93.6	91.6	73.0-125			2.16	20
trans-1,2-Dichloroethene	0.0250	0.0254	0.0252	102	101	71.0-125			0.791	20
1,2-Dichloropropane	0.0250	0.0251	0.0243	100	97.2	74.0-125			3.24	20
1,1-Dichloropropene	0.0250	0.0230	0.0225	92.0	90.0	73.0-125			2.20	20
1,3-Dichloropropane	0.0250	0.0235	0.0231	94.0	92.4	80.0-125			1.72	20
cis-1,3-Dichloropropene	0.0250	0.0242	0.0236	96.8	94.4	76.0-127			2.51	20
trans-1,3-Dichloropropene	0.0250	0.0239	0.0238	95.6	95.2	73.0-127			0.419	20
2,2-Dichloropropane	0.0250	0.0230	0.0221	92.0	88.4	59.0-135			3.99	20
Di-isopropyl ether	0.0250	0.0260	0.0251	104	100	60.0-136			3.52	20
Ethylbenzene	0.0250	0.0233	0.0228	93.2	91.2	74.0-126			2.17	20
Hexachloro-1,3-butadiene	0.0250	0.0239	0.0234	95.6	93.6	57.0-150			2.11	20
Isopropylbenzene	0.0250	0.0238	0.0233	95.2	93.2	72.0-127			2.12	20
p-Isopropyltoluene	0.0250	0.0242	0.0231	96.8	92.4	72.0-133			4.65	20
2-Butanone (MEK)	0.125	0.125	0.121	100	96.8	30.0-160			3.25	24
Methylene Chloride	0.0250	0.0269	0.0260	108	104	68.0-123			3.40	20
4-Methyl-2-pentanone (MIBK)	0.125	0.131	0.126	105	101	56.0-143			3.89	20
Methyl tert-butyl ether	0.0250	0.0289	0.0273	116	109	66.0-132			5.69	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799623-1 06/05/22 20:56 • (LCSD) R3799623-2 06/05/22 21:20

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.0250	0.0217	0.0207	86.8	82.8	59.0-130			4.72	20
n-Propylbenzene	0.0250	0.0240	0.0231	96.0	92.4	74.0-126			3.82	20
Styrene	0.0250	0.0237	0.0234	94.8	93.6	72.0-127			1.27	20
1,1,1,2-Tetrachloroethane	0.0250	0.0228	0.0226	91.2	90.4	74.0-129			0.881	20
1,1,2,2-Tetrachloroethane	0.0250	0.0243	0.0231	97.2	92.4	68.0-128			5.06	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0240	0.0236	96.0	94.4	61.0-139			1.68	20
Tetrachloroethene	0.0250	0.0239	0.0238	95.6	95.2	70.0-136			0.419	20
Toluene	0.0250	0.0235	0.0232	94.0	92.8	75.0-121			1.28	20
1,2,3-Trichlorobenzene	0.0250	0.0224	0.0216	89.6	86.4	59.0-139			3.64	20
1,2,4-Trichlorobenzene	0.0250	0.0225	0.0220	90.0	88.0	62.0-137			2.25	20
1,1,1-Trichloroethane	0.0250	0.0228	0.0221	91.2	88.4	69.0-126			3.12	20
1,1,2-Trichloroethane	0.0250	0.0242	0.0239	96.8	95.6	78.0-123			1.25	20
Trichloroethene	0.0250	0.0228	0.0225	91.2	90.0	76.0-126			1.32	20
Trichlorofluoromethane	0.0250	0.0233	0.0226	93.2	90.4	61.0-142			3.05	20
1,2,3-Trichloropropane	0.0250	0.0233	0.0221	93.2	88.4	67.0-129			5.29	20
1,2,4-Trimethylbenzene	0.0250	0.0243	0.0234	97.2	93.6	70.0-126			3.77	20
1,2,3-Trimethylbenzene	0.0250	0.0238	0.0229	95.2	91.6	74.0-124			3.85	20
Vinyl chloride	0.0250	0.0244	0.0240	97.6	96.0	63.0-134			1.65	20
1,3,5-Trimethylbenzene	0.0250	0.0244	0.0235	97.6	94.0	73.0-127			3.76	20
Xylenes, Total	0.0750	0.0706	0.0702	94.1	93.6	72.0-127			0.568	20
(S) Toluene-d8				106	107	75.0-131				
(S) 4-Bromofluorobenzene				100	102	67.0-138				
(S) 1,2-Dichloroethane-d4				105	104	70.0-130				

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3799595-1 06/04/22 09:47

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	86.1			60.0-120
(S) n-Triacontane d62	84.1			60.0-120

¹Cp

²Tc

³Ss

⁴Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799595-2 06/04/22 10:00 • (LCSD) R3799595-3 06/04/22 10:13

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	200	185	165	92.5	82.5	75.0-125			11.4	20
(S) o-Terphenyl				92.5	81.6	60.0-120				

⁵Ds

⁶Sr

⁷Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799595-4 06/04/22 10:25 • (LCSD) R3799595-5 06/04/22 10:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	200	124	142	62.0	71.0	60.0-120			13.5	20
(S) n-Triacontane d62				84.1	95.8	60.0-120				

⁸Gl

⁹Al

¹⁰Sc

L1498453-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498453-03 06/04/22 21:42 • (MS) R3799595-6 06/04/22 21:55 • (MSD) R3799595-7 06/04/22 22:07

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	226	81.0	285	296	90.2	95.2	1	60.0-120			3.89	20
(S) n-Triacontane d62					82.8	84.0		50.0-150				

L1497710-20 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1497710-20 06/05/22 01:31 • (MS) R3799595-8 06/05/22 01:43 • (MSD) R3799595-9 06/05/22 01:56

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	349	U	446	432	128	124	1	75.0-125	J5		3.17	20
(S) o-Terphenyl					88.4	73.0		50.0-150				

Method Blank (MB)

(MB) R3800456-1 06/06/22 16:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
<i>(S) o-Terphenyl</i>	97.8			60.0-120
<i>(S) n-Triacontane d62</i>	89.1			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800456-2 06/06/22 17:08 • (LCSD) R3800456-3 06/06/22 17:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	196	196	98.0	98.0	75.0-125			0.000	20
<i>(S) o-Terphenyl</i>				97.0	97.0	60.0-120				
<i>(S) n-Triacontane d62</i>				90.0	90.3	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800456-4 06/06/22 17:34 • (LCSD) R3800456-5 06/06/22 17:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	139	132	69.5	66.0	60.0-120			5.17	20
<i>(S) o-Terphenyl</i>				95.1	93.6	60.0-120				
<i>(S) n-Triacontane d62</i>				91.3	92.5	60.0-120				

L1498453-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498453-08 06/06/22 22:41 • (MS) R3800456-6 06/06/22 22:53 • (MSD) R3800456-7 06/06/22 23:06

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	223	U	275	362	123	161	1	75.0-125		J3 J5	27.4	20
<i>(S) o-Terphenyl</i>					102	100		50.0-150				
<i>(S) n-Triacontane d62</i>					89.2	83.2		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1498453-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498453-08 06/06/22 22:41 • (MS) R3800456-8 06/06/22 23:19 • (MSD) R3800456-9 06/06/22 23:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	213	320	388	344	31.9	10.6	1	60.0-120	<u>J6</u>	<u>J6</u>	12.1	20
(S) o-Terphenyl					102	99.2		50.0-150				
(S) n-Triacontane d62					92.5	88.4		50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3800458-1 06/06/22 18:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	90.3			60.0-120
(S) n-Triacontane d62	84.4			60.0-120

1 Cp

2 Tc

3 Ss

4 Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800458-2 06/06/22 18:12 • (LCSD) R3800458-3 06/06/22 18:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	193	191	96.5	95.5	75.0-125			1.04	20
(S) o-Terphenyl				94.0	94.0	60.0-120				
(S) n-Triacontane d62				88.2	87.3	60.0-120				

5 Ds

6 Sr

7 Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800458-4 06/06/22 18:38 • (LCSD) R3800458-5 06/06/22 18:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	126	131	63.0	65.5	60.0-120			3.89	20
(S) o-Terphenyl				86.1	98.5	60.0-120				
(S) n-Triacontane d62				89.7	94.8	60.0-120				

8 Gl

9 Al

10 Sc

L1501035-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501035-10 06/07/22 03:47 • (MS) R3800458-6 06/07/22 03:59 • (MSD) R3800458-7 06/07/22 04:12

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	253	U	616	464	244	184	1	75.0-125	J5	J3 J5	28.1	20
(S) o-Terphenyl					92.5	66.7		50.0-150				
(S) n-Triacontane d62					82.3	66.9		50.0-150				

L1501035-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501035-10 06/07/22 03:47 • (MS) R3800458-8 06/07/22 04:25 • (MSD) R3800458-9 06/07/22 04:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	253	U	122	164	48.2	65.0	1	60.0-120	<u>J6</u>	<u>J3</u>	29.7	20
<i>(S) o-Terphenyl</i>					76.4	79.4		50.0-150				
<i>(S) n-Triacontane d62</i>					72.7	78.0		50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3799923-2 06/06/22 13:41

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	77.0			14.0-149
(S) 2-Fluorobiphenyl	80.1			34.0-125
(S) p-Terphenyl-d14	94.0			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3799923-1 06/06/22 13:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0598	74.8	50.0-126	
Acenaphthene	0.0800	0.0605	75.6	50.0-120	
Acenaphthylene	0.0800	0.0631	78.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0601	75.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0514	64.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0607	75.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0578	72.3	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0594	74.3	49.0-125	
Chrysene	0.0800	0.0600	75.0	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0587	73.4	47.0-125	
Fluoranthene	0.0800	0.0596	74.5	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R379923-1 06/06/22 13:24

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0629	78.6	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0590	73.8	46.0-125	
Naphthalene	0.0800	0.0606	75.8	50.0-120	
Phenanthrene	0.0800	0.0602	75.3	47.0-120	
Pyrene	0.0800	0.0598	74.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0609	76.1	51.0-121	
2-Methylnaphthalene	0.0800	0.0598	74.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0614	76.8	50.0-120	
(S) Nitrobenzene-d5			85.4	14.0-149	
(S) 2-Fluorobiphenyl			85.4	34.0-125	
(S) p-Terphenyl-d14			97.5	23.0-120	

L1498335-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498335-04 06/06/22 15:08 • (MS) R379923-3 06/06/22 15:25 • (MSD) R379923-4 06/06/22 15:43

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	U	0.0682	0.0639	74.5	69.9	1	10.0-145			6.41	30
Acenaphthene	0.0800	U	0.0701	0.0660	76.6	72.1	1	14.0-127			6.05	27
Acenaphthylene	0.0800	U	0.0722	0.0679	78.9	74.3	1	21.0-124			6.04	25
Benzo(a)anthracene	0.0800	U	0.0675	0.0633	73.8	69.1	1	10.0-139			6.47	30
Benzo(a)pyrene	0.0800	U	0.0655	0.0617	71.6	67.4	1	10.0-141			6.12	31
Benzo(b)fluoranthene	0.0800	U	0.0702	0.0645	76.8	70.5	1	10.0-140			8.49	36
Benzo(g,h,i)perylene	0.0800	U	0.0661	0.0625	72.3	68.3	1	10.0-140			5.69	33
Benzo(k)fluoranthene	0.0800	U	0.0673	0.0650	73.5	71.0	1	10.0-137			3.46	31
Chrysene	0.0800	U	0.0691	0.0649	75.5	70.9	1	10.0-145			6.32	30
Dibenz(a,h)anthracene	0.0800	U	0.0668	0.0629	73.0	68.8	1	10.0-132			6.00	31
Fluoranthene	0.0800	U	0.0676	0.0642	73.9	70.1	1	10.0-153			5.21	33
Fluorene	0.0800	U	0.0724	0.0688	79.1	75.1	1	11.0-130			5.19	29
Indeno(1,2,3-cd)pyrene	0.0800	U	0.0667	0.0631	72.9	69.0	1	10.0-137			5.46	32
Naphthalene	0.0800	U	0.0691	0.0678	75.5	74.1	1	10.0-135			1.84	27
Phenanthrene	0.0800	U	0.0694	0.0654	75.9	71.5	1	10.0-144			5.94	31
Pyrene	0.0800	U	0.0678	0.0641	74.1	70.0	1	10.0-148			5.72	35
1-Methylnaphthalene	0.0800	U	0.0704	0.0671	76.9	73.4	1	10.0-142			4.66	28
2-Methylnaphthalene	0.0800	U	0.0682	0.0658	74.5	71.9	1	10.0-137			3.59	28
2-Chloronaphthalene	0.0800	U	0.0709	0.0673	77.5	73.5	1	29.0-120			5.30	24
(S) Nitrobenzene-d5					80.5	81.8		14.0-149				
(S) 2-Fluorobiphenyl					83.6	83.6		34.0-125				
(S) p-Terphenyl-d14					93.5	95.3		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799885-2 06/06/22 11:12

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	76.0			14.0-149
(S) 2-Fluorobiphenyl	80.9			34.0-125
(S) p-Terphenyl-d14	92.2			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3799885-1 06/06/22 10:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0597	74.6	50.0-126	
Acenaphthene	0.0800	0.0610	76.3	50.0-120	
Acenaphthylene	0.0800	0.0642	80.3	50.0-120	
Benzo(a)anthracene	0.0800	0.0593	74.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0526	65.8	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0583	72.9	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0580	72.5	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0589	73.6	49.0-125	
Chrysene	0.0800	0.0589	73.6	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0610	76.3	47.0-125	
Fluoranthene	0.0800	0.0607	75.9	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3799885-1 06/06/22 10:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0598	74.8	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0597	74.6	46.0-125	
Naphthalene	0.0800	0.0611	76.4	50.0-120	
Phenanthrene	0.0800	0.0592	74.0	47.0-120	
Pyrene	0.0800	0.0593	74.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0629	78.6	51.0-121	
2-Methylnaphthalene	0.0800	0.0590	73.8	50.0-120	
2-Chloronaphthalene	0.0800	0.0615	76.9	50.0-120	
(S) Nitrobenzene-d5			74.8	14.0-149	
(S) 2-Fluorobiphenyl			79.4	34.0-125	
(S) p-Terphenyl-d14			87.8	23.0-120	

L1498473-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498473-03 06/06/22 12:12 • (MS) R3799885-3 06/06/22 12:32 • (MSD) R3799885-4 06/06/22 12:52

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0800	U	0.0542	0.0543	67.8	67.9	1	10.0-145			0.184	30
Acenaphthene	0.0800	U	0.0556	0.0567	69.5	70.9	1	14.0-127			1.96	27
Acenaphthylene	0.0800	U	0.0578	0.0580	72.3	72.5	1	21.0-124			0.345	25
Benzo(a)anthracene	0.0800	U	0.0531	0.0527	66.4	65.9	1	10.0-139			0.756	30
Benzo(a)pyrene	0.0800	U	0.0526	0.0527	65.8	65.9	1	10.0-141			0.190	31
Benzo(b)fluoranthene	0.0800	U	0.0529	0.0526	66.1	65.8	1	10.0-140			0.569	36
Benzo(g,h,i)perylene	0.0800	U	0.0541	0.0548	67.6	68.5	1	10.0-140			1.29	33
Benzo(k)fluoranthene	0.0800	U	0.0547	0.0552	68.4	69.0	1	10.0-137			0.910	31
Chrysene	0.0800	U	0.0553	0.0556	69.1	69.5	1	10.0-145			0.541	30
Dibenz(a,h)anthracene	0.0800	U	0.0561	0.0568	70.1	71.0	1	10.0-132			1.24	31
Fluoranthene	0.0800	U	0.0569	0.0563	71.1	70.4	1	10.0-153			1.06	33
Fluorene	0.0800	U	0.0553	0.0553	69.1	69.1	1	11.0-130			0.000	29
Indeno(1,2,3-cd)pyrene	0.0800	U	0.0547	0.0549	68.4	68.6	1	10.0-137			0.365	32
Naphthalene	0.0800	U	0.0556	0.0555	69.5	69.4	1	10.0-135			0.180	27
Phenanthrene	0.0800	U	0.0562	0.0564	70.3	70.5	1	10.0-144			0.355	31
Pyrene	0.0800	U	0.0555	0.0559	69.4	69.9	1	10.0-148			0.718	35
1-Methylnaphthalene	0.0800	U	0.0585	0.0583	73.1	72.9	1	10.0-142			0.342	28
2-Methylnaphthalene	0.0800	U	0.0546	0.0535	68.3	66.9	1	10.0-137			2.04	28
2-Chloronaphthalene	0.0800	U	0.0564	0.0568	70.5	71.0	1	29.0-120			0.707	24
(S) Nitrobenzene-d5					74.3	71.0		14.0-149				
(S) 2-Fluorobiphenyl					77.7	75.4		34.0-125				
(S) p-Terphenyl-d14					83.9	80.9		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.



GLOSSARY OF TERMS

Qualifier	Description
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

ACCREDITATIONS & LOCATIONS

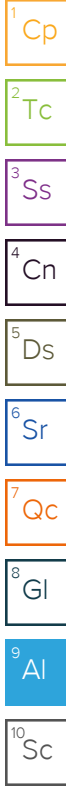
Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.



Company Name/Address:
BGES, Inc. - Anchorage, AK
 1042 E 6th Ave.
 Anchorage, AK 99501

Billing Information:
 Accounts Payable
 1042 E 6th Ave.
 Anchorage, AK 99501

Report to:
BGES

Email To:
 bob@bgesinc.com;jayne@bgesinc.com;carol@b

Project Description:
Homer Airport

City/State Collected:
Homer AK

Please Circle: **AK**
 PT MT CT ET

Phone: **907-644-2900**

Client Project #
B 98

Lab Project #
BGESAAK-HOMER

Collected by (print):
Sam Bundy

Site/Facility ID #

P.O. #

Collected by (signature):
SB
 Immediately Packed on Ice N Y

Rush? (Lab MUST Be Notified)
 Same Day Five Day
 Next Day 5 Day (Rad Only)
 Two Day 10 Day (Rad Only)
 Three Day

Quote #
00107286
 Date Results Needed
Standard

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs
-----------	-----------	----------	-------	------	------	--------------

SB 4-2	G	SS	2.5-5'	5/23/22	1227	5
SB 25-1	G	SS	2.5'	5/23/22	1055	5
SB 26-1	G	SS	0-2.5'	5/23/22	1108	5
SB 28-1	G	SS	0-2.5'	5/23/22	1202	5
SB 6-1	G	SS	0-2.5'	5/23/22	1305	5
SB 27-1	G	SS	0-2.5'	5/23/22	1139	5
SB 8-2	G	SS	2.5-5'	5/23/22	1401	5
SB 5-1	G	SS	0-2.5'	5/23/22	1255	5
SB 24-1	G	SS	0-2.5'	5/23/22	1044	5
SB 7-2	G	SS	2.5-5'	5/23/22	1348	5

Analysis / Container / Preservative				
AK101 60mlAmb/MeOH/Syr	AK102/103 4ozClr-NoPres	SV8270PAHSIMD 4ozClr-NoPres	TS (%moisture) 4ozClr-NoPres	V8260LLC 40m/NaHSO4/Syr/MeOH

Chain of Custody Page **1** of **2**

Pace
 PEOPLE ADVANCING SCIENCE

MT JULIET, TN

12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubfs/pas-standard-terms.pdf>

SDG # **L498453**
 B207

Accnum: **BGESAAK**
 Template: **T208548**
 Prelogin: **P922076**
 PM: 546 - Jared Starkey
 PB: **05/13/22**

Shipped Via: **FedEX 2nd Day**

Remarks Sample # (lab only)

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

Samples returned via:
 UPS FedEx Courier

Tracking # **0221 5755 8090 3132**

Sample Receipt Checklist	
COC Seal Present/Intact:	<input checked="" type="checkbox"/> NP <input type="checkbox"/> N
COC Signed/Accurate:	<input checked="" type="checkbox"/> <input type="checkbox"/> N
Bottles arrive intact:	<input checked="" type="checkbox"/> <input type="checkbox"/> N
Correct bottles used:	<input checked="" type="checkbox"/> <input type="checkbox"/> N
Sufficient volume sent:	<input checked="" type="checkbox"/> <input type="checkbox"/> N
if Applicable	
VOA Zero Headspace:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
Preservation Correct/Checked:	<input type="checkbox"/> Y <input checked="" type="checkbox"/> N
RAD Screen <0.5 mR/hr:	<input checked="" type="checkbox"/> <input type="checkbox"/> N

Relinquished by: (Signature)
SB

Relinquished by: (Signature)

Relinquished by: (Signature)

Date: **5/25/22**
 Time: **0830**

Date:

Date:

Received by: (Signature)

Received by: (Signature)

Received for lab by: (Signature)
Starkey

Trip Blank Received: **4** Yes/No
 HCL/MeOH
 TBR

Temp: **4.8** °C
4.8 + 0 = 4.8

Date: **5-26-22**
 Time: **0900**

If preservation required by Login: Date/Time

Hold:

Condition:
 NCF / **OK**

Company Name/Address: **BGES, Inc. - Anchorage, AK**
 1042 E 6th Ave.
 Anchorage, AK 99501

Billing Information:
 Accounts Payable
 1042 E 6th Ave.
 Anchorage, AK 99501

Report to: **BGES**
 Email To: **bob@bgesinc.com;jayne@bgesinc.com;carol@b**

Project Description: **Homer Airport**
 City/State Collected: **Homer AK**
 Please Circle: **AK**
 PT MT CT ET

Phone: **907-644-2900**
 Client Project #
 Lab Project # **BGESAAK-HOMER**

Collected by (print): **Sam Bundy**
 Site/Facility ID #
 P.O. #

Collected by (signature):
 Rush? (Lab MUST Be Notified)
 ___ Same Day ___ Five Day
 ___ Next Day ___ 5 Day (Rad Only)
 ___ Two Day ___ 10 Day (Rad Only)
 ___ Three Day
 Quote # **00107286**
 Date Results Needed: **Standard**

Immediately Packed on Ice: **N** ___ **Y** **X**
 No. of Cntrs

Analysis / Container / Preservative
 AK101 60mlAmb/MeOH/Syr
 AK102/103 4ozClr-NoPres
 SV8270PAHSMD 4ozClr-NoPres
 TS (%moisture) 4ozClr-NoPres
 V8260LLC 40ml/NaHSO4/Syr/MeOH

Chain of Custody Page **2** of **2**
Pace
 PEOPLE ADVANCING SCIENCE
MT JULIET, TN
 12065 Lebanon Rd Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at:
<https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **U498453**
 Table #
 Acctnum: **BGESAAK**
 Template: **T208548**
 Prelogin: **P922076**
 PM: **546 - Jared Starkey**
 PB: **8/5/22**
 Shipped Via: **FedEX 2nd Day**

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 60mlAmb/MeOH/Syr	AK102/103 4ozClr-NoPres	SV8270PAHSMD 4ozClr-NoPres	TS (%moisture) 4ozClr-NoPres	V8260LLC 40ml/NaHSO4/Syr/MeOH	Remarks	Sample # (lab only)
SB 2-1	G	SS	0-2.5'	5/23/22	1416	5	X	X	X	X	X		-11
SB 2-2 SB 6-3	G	SS	0-2.5'	5/23/22	1313	5	X	X	X	X	X		-12
SB 2-3	G	SS	0-2.5'	5/23/22	1422	5	X	X	X	X	X		-13
SB 3-1	G	SS	0-2.5'	5/23/22	1434	5	X	X	X	X	X		-14
SB 6-2	G	SS	0-2.5'	5/23/22	1310	5	X	X	X	X	X		-15
		SS											
		SS											
		SS											
		SS											
		SS											
X Trip Blank		SS											-16

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:
 pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 ___ UPS ___ FedEx ___ Courier _____

Tracking # **0221 5755 8090 3132**

Relinquished by: (Signature) **[Signature]** Date: **5/25/22** Time: **0830**

Received by: (Signature) _____ Trip Blank Received: **Yes/No** **X** HCL/MeOH TBR

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received by: (Signature) _____ Temp: **JACK °C** Bottles Received: **7525** If preservation required by Login: Date/Time

Relinquished by: (Signature) _____ Date: _____ Time: _____

Received for lab by: (Signature) **[Signature]** Date: **5-26-22** Time: **0900** Hold: _____ Condition: **NCF / OK**

Sample Receipt Checklist
 COC Seal Present/Intact: ___ NP ___ Y ___ N
 COC Signed/Accurate: ___ X ___ N
 Bottles arrive intact: ___ X ___ N
 Correct bottles used: ___ X ___ N
 Sufficient volume sent: ___ X ___ N
 If Applicable
 VOA Zero Headspace: ___ Y ___ N
 Preservation Correct/Checked: ___ Y ___ N
 RAD Screen <0.5 mR/hr: ___ X ___ N

August 15, 2022

Revised Report

BGES, Inc. - Anchorage, AK

Sample Delivery Group: L1499074
Samples Received: 05/27/2022
Project Number:
Description: Homer Airport

Report To: Lisa Vitale
1042 E 6th Ave.
Anchorage, AK 99501

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Entire Report Reviewed By:



Jared Starkey
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Pace Analytical National12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

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SAMPLE SUMMARY

SB1-1 L1499074-01 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 00:22
 Received date/time: 05/27/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1874230	1	06/04/22 09:37	06/04/22 09:44	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1874032	1	05/26/22 00:22	06/03/22 18:23	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/26/22 00:22	06/04/22 04:02	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1874253	1	06/07/22 12:35	06/08/22 17:42	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1875680	1	06/09/22 03:05	06/09/22 23:27	AGW	Mt. Juliet, TN



SB1-3 L1499074-02 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 00:26
 Received date/time: 05/27/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1874230	1	06/04/22 09:37	06/04/22 09:44	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1874032	1.24	05/26/22 00:26	06/03/22 18:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/26/22 00:26	06/04/22 04:21	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1874253	1	06/07/22 12:35	06/08/22 18:59	JAS	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1875680	1	06/09/22 03:05	06/10/22 00:03	AGW	Mt. Juliet, TN



GAC-2 L1499074-03 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 03:25
 Received date/time: 05/27/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1874230	1	06/04/22 09:37	06/04/22 09:44	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1874032	1.08	05/26/22 03:25	06/03/22 19:16	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	38.5	05/26/22 03:25	06/04/22 04:41	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1874253	1	06/07/22 12:35	06/08/22 07:00	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1875680	1	06/09/22 03:05	06/09/22 22:17	AGW	Mt. Juliet, TN



SB11-1 L1499074-04 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 02:43
 Received date/time: 05/27/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1874230	1	06/04/22 09:37	06/04/22 09:44	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1874032	1.15	05/26/22 02:43	06/03/22 20:11	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/26/22 02:43	06/04/22 05:00	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1873761	1	06/06/22 02:01	06/06/22 21:50	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1875680	1	06/09/22 03:05	06/09/22 23:45	AGW	Mt. Juliet, TN

SB193 L1499074-05 Solid

Collected by: Sam Bundy
 Collected date/time: 05/25/22 23:59
 Received date/time: 05/27/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1874230	1	06/04/22 09:37	06/04/22 09:44	CMK	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method AK101	WG1874032	1.13	05/25/22 23:59	06/03/22 20:38	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1874219	25	05/25/22 23:59	06/04/22 05:20	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method AK102/103	WG1874252	20	06/06/22 03:54	06/07/22 05:42	JDG	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM	WG1875672	1	06/08/22 16:36	06/09/22 15:07	JNJ	Mt. Juliet, TN

SAMPLE SUMMARY

TRIP BLANK L1499074-06 Solid

Collected by: Sam Bundy
 Collected date/time: 05/26/22 00:00
 Received date/time: 05/27/22 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method AK101	WG1874032	1	05/26/22 00:00	06/03/22 21:04	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260D	WG1876337	1	05/26/22 00:00	06/08/22 21:56	JHH	Mt. Juliet, TN

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Ds
- ⁶ Sr
- ⁷ Qc
- ⁸ Gl
- ⁹ Al
- ¹⁰ Sc

CASE NARRATIVE

Unless qualified or notated within the narrative below, all sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Jared Starkey
Project Manager

Report Revision History

Level II Report - Version 1: 06/11/22 08:14



Project Comments

ID Correction

Volatile Organic Compounds (GC/MS) by Method 8260D

The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.

Batch	Lab Sample ID	Analytes
WG1874219	L1499074-01	Bromomethane and Naphthalene
WG1874219	L1499074-02	Bromomethane and Naphthalene
WG1874219	L1499074-03	Bromomethane and Naphthalene
WG1874219	L1499074-04	Bromomethane and Naphthalene
WG1874219	L1499074-05	Bromomethane and Naphthalene

The associated batch QC was above the established quality control range for accuracy.

Batch	Lab Sample ID	Analytes
WG1874219	(LCSD) R3799546-2, L1499074-01, 02, 03, 04, 05	Acetone
WG1876337	(LCSD) R3801105-2, L1499074-06	1,1,2-Trichloroethane, 1,2,3-Trichloropropane, 1,2-Dibromo-3-Chloropropane, 1,2-Dibromoethane, Bromoform, Dibromomethane and Naphthalene

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Surrogate recovery cannot be used for control limit evaluation due to dilution.

Batch	Analyte	Lab Sample ID
WG1874252	n-Triacontane d62	L1499074-05
WG1874252	o-Terphenyl	L1499074-05

The sample matrix interfered with the ability to make any accurate determination; spike value is high.

Batch	Lab Sample ID	Analytes
WG1873761	(MSD) R3800456-7	AK102 DRO C10-C25
WG1874252	(MS) R3800458-6, (MSD) R3800458-7	AK102 DRO C10-C25

CASE NARRATIVE

Semi-Volatile Organic Compounds (GC) by Method AK102/103

The sample matrix interfered with the ability to make any accurate determination; spike value is low.

Batch	Lab Sample ID	Analytes
WG1873761	(MS) R3800456-8, (MSD) R3800456-9	AK103 RRO C25-C36
WG1874252	(MS) R3800458-8	AK103 RRO C25-C36
WG1874253	(MSD) R3800758-7, L1499074-01	AK103 RRO C25-C36

The associated batch QC was outside the established quality control range for precision.

Batch	Lab Sample ID	Analytes
WG1873761	(MSD) R3800456-7	AK102 DRO C10-C25
WG1874252	(MSD) R3800458-7, (MSD) R3800458-9	AK102 DRO C10-C25 and AK103 RRO C25-C36
WG1874253	(MSD) R3800758-7, L1499074-01	AK103 RRO C25-C36



DETECTION SUMMARY

Volatile Organic Compounds (GC/MS) by Method 8260D

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB193	L1499074-05	p-Isopropyltoluene	0.00846	<u>J</u>	0.00546	0.0268	25	06/04/2022 05:20	WG1874219

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Semi-Volatile Organic Compounds (GC) by Method AK102/103

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB1-1	L1499074-01	AK103 RRO C25-C36	153	<u>J J3 J6</u>	70.1	210	1	06/08/2022 17:42	WG1874253
SB1-3	L1499074-02	AK103 RRO C25-C36	176	<u>J</u>	76.2	229	1	06/08/2022 18:59	WG1874253
SB11-1	L1499074-04	AK103 RRO C25-C36	175	<u>J</u>	71.3	214	1	06/06/2022 21:50	WG1873761
SB193	L1499074-05	AK103 RRO C25-C36	9580		1380	4140	20	06/07/2022 05:42	WG1874252

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Client ID	Lab Sample ID	Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
SB1-3	L1499074-02	Benzo(a)anthracene	0.0102		0.00198	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Benzo(a)pyrene	0.0112		0.00205	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Benzo(b)fluoranthene	0.0177		0.00175	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Benzo(g,h,i)perylene	0.00995		0.00203	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Benzo(k)fluoranthene	0.00621	<u>J</u>	0.00246	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Chrysene	0.00868		0.00266	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Fluoranthene	0.0254		0.00260	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Indeno(1,2,3-cd)pyrene	0.00848		0.00207	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Phenanthrene	0.0135		0.00264	0.00687	1	06/10/2022 00:03	WG1875680
SB1-3	L1499074-02	Pyrene	0.0191		0.00229	0.00687	1	06/10/2022 00:03	WG1875680
SB11-1	L1499074-04	Benzo(b)fluoranthene	0.00329	<u>J</u>	0.00164	0.00643	1	06/09/2022 23:45	WG1875680
SB11-1	L1499074-04	Benzo(g,h,i)perylene	0.00224	<u>J</u>	0.00190	0.00643	1	06/09/2022 23:45	WG1875680
SB11-1	L1499074-04	Pyrene	0.00227	<u>J</u>	0.00214	0.00643	1	06/09/2022 23:45	WG1875680
SB193	L1499074-05	Benzo(a)anthracene	0.00733		0.00179	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Benzo(a)pyrene	0.0143		0.00185	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Benzo(b)fluoranthene	0.0201		0.00158	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Benzo(g,h,i)perylene	0.0285		0.00183	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Chrysene	0.0179		0.00240	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Dibenz(a,h)anthracene	0.00850		0.00178	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Fluoranthene	0.00875		0.00235	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Indeno(1,2,3-cd)pyrene	0.00726		0.00187	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Naphthalene	0.00616	<u>J</u>	0.00422	0.0207	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Phenanthrene	0.00373	<u>J</u>	0.00239	0.00621	1	06/09/2022 15:07	WG1875672
SB193	L1499074-05	Pyrene	0.0188		0.00207	0.00621	1	06/09/2022 15:07	WG1875672

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	95.0		1	06/04/2022 09:44	WG1874230

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.00	2.63	1	06/03/2022 18:23	WG1874032
(S) a,a,a-Trifluorotoluene(FID)	86.9			50.0-150		06/03/2022 18:23	WG1874032

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.578	1.39	25	06/04/2022 04:02	WG1874219
Acrylonitrile	U		0.0563	0.279	25	06/04/2022 04:02	WG1874219
Benzene	U		0.0105	0.0279	25	06/04/2022 04:02	WG1874219
Bromobenzene	U		0.00767	0.0279	25	06/04/2022 04:02	WG1874219
Bromodichloromethane	U		0.0202	0.0279	25	06/04/2022 04:02	WG1874219
Bromoform	U		0.0118	0.0279	25	06/04/2022 04:02	WG1874219
Bromomethane	U	C3	0.0327	0.139	25	06/04/2022 04:02	WG1874219
n-Butylbenzene	U		0.00720	0.0279	25	06/04/2022 04:02	WG1874219
sec-Butylbenzene	U		0.00561	0.0279	25	06/04/2022 04:02	WG1874219
tert-Butylbenzene	U		0.00575	0.0279	25	06/04/2022 04:02	WG1874219
Carbon tetrachloride	U		0.00692	0.0279	25	06/04/2022 04:02	WG1874219
Chlorobenzene	U		0.00535	0.0279	25	06/04/2022 04:02	WG1874219
Chlorodibromomethane	U		0.00625	0.0279	25	06/04/2022 04:02	WG1874219
Chloroethane	U		0.0279	0.139	25	06/04/2022 04:02	WG1874219
Chloroform	U		0.0288	0.139	25	06/04/2022 04:02	WG1874219
Chloromethane	U		0.0182	0.0697	25	06/04/2022 04:02	WG1874219
2-Chlorotoluene	U		0.00628	0.0279	25	06/04/2022 04:02	WG1874219
4-Chlorotoluene	U		0.0193	0.0279	25	06/04/2022 04:02	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0530	0.139	25	06/04/2022 04:02	WG1874219
1,2-Dibromoethane	U		0.00697	0.0279	25	06/04/2022 04:02	WG1874219
Dibromomethane	U		0.00976	0.0279	25	06/04/2022 04:02	WG1874219
1,2-Dichlorobenzene	U		0.0118	0.0279	25	06/04/2022 04:02	WG1874219
1,3-Dichlorobenzene	U		0.0167	0.0279	25	06/04/2022 04:02	WG1874219
1,4-Dichlorobenzene	U		0.0232	0.0279	25	06/04/2022 04:02	WG1874219
Dichlorodifluoromethane	U		0.00800	0.139	25	06/04/2022 04:02	WG1874219
1,1-Dichloroethane	U		0.00747	0.0279	25	06/04/2022 04:02	WG1874219
1,2-Dichloroethane	U		0.0126	0.0279	25	06/04/2022 04:02	WG1874219
1,1-Dichloroethene	U		0.00991	0.0279	25	06/04/2022 04:02	WG1874219
cis-1,2-Dichloroethene	U		0.0133	0.0279	25	06/04/2022 04:02	WG1874219
trans-1,2-Dichloroethene	U		0.0139	0.0279	25	06/04/2022 04:02	WG1874219
1,2-Dichloropropane	U		0.00457	0.0279	25	06/04/2022 04:02	WG1874219
1,1-Dichloropropene	U		0.0105	0.0279	25	06/04/2022 04:02	WG1874219
1,3-Dichloropropane	U		0.00628	0.0279	25	06/04/2022 04:02	WG1874219
cis-1,3-Dichloropropene	U		0.0118	0.0279	25	06/04/2022 04:02	WG1874219
trans-1,3-Dichloropropene	U		0.0189	0.0279	25	06/04/2022 04:02	WG1874219
2,2-Dichloropropane	U		0.0105	0.0279	25	06/04/2022 04:02	WG1874219
Di-isopropyl ether	U		0.00617	0.0279	25	06/04/2022 04:02	WG1874219
Ethylbenzene	U		0.00837	0.0279	25	06/04/2022 04:02	WG1874219
Hexachloro-1,3-butadiene	U		0.00954	0.0279	25	06/04/2022 04:02	WG1874219
Isopropylbenzene	U		0.0118	0.0279	25	06/04/2022 04:02	WG1874219
p-Isopropyltoluene	U		0.00569	0.0279	25	06/04/2022 04:02	WG1874219
2-Butanone (MEK)	U		0.131	0.279	25	06/04/2022 04:02	WG1874219
Methylene Chloride	U		0.0279	0.139	25	06/04/2022 04:02	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0266	0.279	25	06/04/2022 04:02	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00976	0.0279	25	06/04/2022 04:02	WG1874219
Naphthalene	U	C3	0.139	0.139	25	06/04/2022 04:02	WG1874219
n-Propylbenzene	U		0.00575	0.0279	25	06/04/2022 04:02	WG1874219
Styrene	U		0.00622	0.0279	25	06/04/2022 04:02	WG1874219
1,1,1,2-Tetrachloroethane	U		0.00826	0.0279	25	06/04/2022 04:02	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00644	0.0279	25	06/04/2022 04:02	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0119	0.0279	25	06/04/2022 04:02	WG1874219
Tetrachloroethene	U		0.00907	0.0279	25	06/04/2022 04:02	WG1874219
Toluene	U		0.0344	0.139	25	06/04/2022 04:02	WG1874219
1,2,3-Trichlorobenzene	U		0.00853	0.0279	25	06/04/2022 04:02	WG1874219
1,2,4-Trichlorobenzene	U		0.0108	0.0279	25	06/04/2022 04:02	WG1874219
1,1,1-Trichloroethane	U		0.0103	0.0279	25	06/04/2022 04:02	WG1874219
1,1,2-Trichloroethane	U		0.0118	0.0279	25	06/04/2022 04:02	WG1874219
Trichloroethene	U		0.00558	0.0279	25	06/04/2022 04:02	WG1874219
Trichlorofluoromethane	U		0.00993	0.139	25	06/04/2022 04:02	WG1874219
1,2,3-Trichloropropane	U		0.00680	0.0697	25	06/04/2022 04:02	WG1874219
1,2,4-Trimethylbenzene	U		0.00589	0.0279	25	06/04/2022 04:02	WG1874219
1,2,3-Trimethylbenzene	U		0.00800	0.0279	25	06/04/2022 04:02	WG1874219
Vinyl chloride	U		0.00630	0.0279	25	06/04/2022 04:02	WG1874219
1,3,5-Trimethylbenzene	U		0.00742	0.0279	25	06/04/2022 04:02	WG1874219
Xylenes, Total	U		0.0139	0.0837	25	06/04/2022 04:02	WG1874219
(S) Toluene-d8	105			75.0-131		06/04/2022 04:02	WG1874219
(S) 4-Bromofluorobenzene	88.4			67.0-138		06/04/2022 04:02	WG1874219
(S) 1,2-Dichloroethane-d4	102			70.0-130		06/04/2022 04:02	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		91.1	210	1	06/08/2022 17:42	WG1874253
AK103 RRO C25-C36	153	J J3 J6	70.1	210	1	06/08/2022 17:42	WG1874253
(S) o-Terphenyl	65.8			50.0-150		06/08/2022 17:42	WG1874253
(S) n-Triacontane d62	71.9			50.0-150		06/08/2022 17:42	WG1874253

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00242	0.00631	1	06/09/2022 23:27	WG1875680
Acenaphthene	U		0.00220	0.00631	1	06/09/2022 23:27	WG1875680
Acenaphthylene	U		0.00227	0.00631	1	06/09/2022 23:27	WG1875680
Benzo(a)anthracene	U		0.00182	0.00631	1	06/09/2022 23:27	WG1875680
Benzo(a)pyrene	U		0.00188	0.00631	1	06/09/2022 23:27	WG1875680
Benzo(b)fluoranthene	U		0.00161	0.00631	1	06/09/2022 23:27	WG1875680
Benzo(g,h,i)perylene	U		0.00186	0.00631	1	06/09/2022 23:27	WG1875680
Benzo(k)fluoranthene	U		0.00226	0.00631	1	06/09/2022 23:27	WG1875680
Chrysene	U		0.00244	0.00631	1	06/09/2022 23:27	WG1875680
Dibenz(a,h)anthracene	U		0.00181	0.00631	1	06/09/2022 23:27	WG1875680
Fluoranthene	U		0.00239	0.00631	1	06/09/2022 23:27	WG1875680
Fluorene	U		0.00216	0.00631	1	06/09/2022 23:27	WG1875680
Indeno(1,2,3-cd)pyrene	U		0.00190	0.00631	1	06/09/2022 23:27	WG1875680
Naphthalene	U		0.00429	0.0210	1	06/09/2022 23:27	WG1875680
Phenanthrene	U		0.00243	0.00631	1	06/09/2022 23:27	WG1875680
Pyrene	U		0.00210	0.00631	1	06/09/2022 23:27	WG1875680
1-Methylnaphthalene	U		0.00473	0.0210	1	06/09/2022 23:27	WG1875680
2-Methylnaphthalene	U		0.00449	0.0210	1	06/09/2022 23:27	WG1875680
2-Chloronaphthalene	U		0.00490	0.0210	1	06/09/2022 23:27	WG1875680

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	70.8			14.0-149		06/09/2022 23:27	WG1875680
(S) 2-Fluorobiphenyl	78.8			34.0-125		06/09/2022 23:27	WG1875680
(S) p-Terphenyl-d14	98.2			23.0-120		06/09/2022 23:27	WG1875680

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	87.4		1	06/04/2022 09:44	WG1874230

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.35	3.55	1.24	06/03/2022 18:50	WG1874032
(S) a,a,a-Trifluorotoluene(FID)	87.8			50.0-150		06/03/2022 18:50	WG1874032

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.684	1.65	25	06/04/2022 04:21	WG1874219
Acrylonitrile	U		0.0666	0.330	25	06/04/2022 04:21	WG1874219
Benzene	U		0.0124	0.0330	25	06/04/2022 04:21	WG1874219
Bromobenzene	U		0.00908	0.0330	25	06/04/2022 04:21	WG1874219
Bromodichloromethane	U		0.0239	0.0330	25	06/04/2022 04:21	WG1874219
Bromoform	U		0.0140	0.0330	25	06/04/2022 04:21	WG1874219
Bromomethane	U	C3	0.0387	0.165	25	06/04/2022 04:21	WG1874219
n-Butylbenzene	U		0.00851	0.0330	25	06/04/2022 04:21	WG1874219
sec-Butylbenzene	U		0.00664	0.0330	25	06/04/2022 04:21	WG1874219
tert-Butylbenzene	U		0.00680	0.0330	25	06/04/2022 04:21	WG1874219
Carbon tetrachloride	U		0.00818	0.0330	25	06/04/2022 04:21	WG1874219
Chlorobenzene	U		0.00633	0.0330	25	06/04/2022 04:21	WG1874219
Chlorodibromomethane	U		0.00739	0.0330	25	06/04/2022 04:21	WG1874219
Chloroethane	U		0.0330	0.165	25	06/04/2022 04:21	WG1874219
Chloroform	U		0.0340	0.165	25	06/04/2022 04:21	WG1874219
Chloromethane	U		0.0215	0.0825	25	06/04/2022 04:21	WG1874219
2-Chlorotoluene	U		0.00743	0.0330	25	06/04/2022 04:21	WG1874219
4-Chlorotoluene	U		0.0228	0.0330	25	06/04/2022 04:21	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0627	0.165	25	06/04/2022 04:21	WG1874219
1,2-Dibromoethane	U		0.00825	0.0330	25	06/04/2022 04:21	WG1874219
Dibromomethane	U		0.0115	0.0330	25	06/04/2022 04:21	WG1874219
1,2-Dichlorobenzene	U		0.0140	0.0330	25	06/04/2022 04:21	WG1874219
1,3-Dichlorobenzene	U		0.0198	0.0330	25	06/04/2022 04:21	WG1874219
1,4-Dichlorobenzene	U		0.0274	0.0330	25	06/04/2022 04:21	WG1874219
Dichlorodifluoromethane	U		0.00946	0.165	25	06/04/2022 04:21	WG1874219
1,1-Dichloroethane	U		0.00884	0.0330	25	06/04/2022 04:21	WG1874219
1,2-Dichloroethane	U		0.0149	0.0330	25	06/04/2022 04:21	WG1874219
1,1-Dichloroethene	U		0.0117	0.0330	25	06/04/2022 04:21	WG1874219
cis-1,2-Dichloroethene	U		0.0157	0.0330	25	06/04/2022 04:21	WG1874219
trans-1,2-Dichloroethene	U		0.0165	0.0330	25	06/04/2022 04:21	WG1874219
1,2-Dichloropropane	U		0.00541	0.0330	25	06/04/2022 04:21	WG1874219
1,1-Dichloropropene	U		0.0124	0.0330	25	06/04/2022 04:21	WG1874219
1,3-Dichloropropane	U		0.00743	0.0330	25	06/04/2022 04:21	WG1874219
cis-1,3-Dichloropropene	U		0.0140	0.0330	25	06/04/2022 04:21	WG1874219
trans-1,3-Dichloropropene	U		0.0223	0.0330	25	06/04/2022 04:21	WG1874219
2,2-Dichloropropane	U		0.0124	0.0330	25	06/04/2022 04:21	WG1874219
Di-isopropyl ether	U		0.00730	0.0330	25	06/04/2022 04:21	WG1874219
Ethylbenzene	U		0.00990	0.0330	25	06/04/2022 04:21	WG1874219
Hexachloro-1,3-butadiene	U		0.0113	0.0330	25	06/04/2022 04:21	WG1874219
Isopropylbenzene	U		0.0140	0.0330	25	06/04/2022 04:21	WG1874219
p-Isopropyltoluene	U		0.00673	0.0330	25	06/04/2022 04:21	WG1874219
2-Butanone (MEK)	U		0.154	0.330	25	06/04/2022 04:21	WG1874219
Methylene Chloride	U		0.0330	0.165	25	06/04/2022 04:21	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0314	0.330	25	06/04/2022 04:21	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0115	0.0330	25	06/04/2022 04:21	WG1874219
Naphthalene	U	<u>C3</u>	0.165	0.165	25	06/04/2022 04:21	WG1874219
n-Propylbenzene	U		0.00680	0.0330	25	06/04/2022 04:21	WG1874219
Styrene	U		0.00736	0.0330	25	06/04/2022 04:21	WG1874219
1,1,1,2-Tetrachloroethane	U		0.00977	0.0330	25	06/04/2022 04:21	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00761	0.0330	25	06/04/2022 04:21	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0141	0.0330	25	06/04/2022 04:21	WG1874219
Tetrachloroethene	U		0.0107	0.0330	25	06/04/2022 04:21	WG1874219
Toluene	U		0.0406	0.165	25	06/04/2022 04:21	WG1874219
1,2,3-Trichlorobenzene	U		0.0101	0.0330	25	06/04/2022 04:21	WG1874219
1,2,4-Trichlorobenzene	U		0.0128	0.0330	25	06/04/2022 04:21	WG1874219
1,1,1-Trichloroethane	U		0.0122	0.0330	25	06/04/2022 04:21	WG1874219
1,1,2-Trichloroethane	U		0.0140	0.0330	25	06/04/2022 04:21	WG1874219
Trichloroethene	U		0.00660	0.0330	25	06/04/2022 04:21	WG1874219
Trichlorofluoromethane	U		0.0117	0.165	25	06/04/2022 04:21	WG1874219
1,2,3-Trichloropropane	U		0.00805	0.0825	25	06/04/2022 04:21	WG1874219
1,2,4-Trimethylbenzene	U		0.00697	0.0330	25	06/04/2022 04:21	WG1874219
1,2,3-Trimethylbenzene	U		0.00946	0.0330	25	06/04/2022 04:21	WG1874219
Vinyl chloride	U		0.00746	0.0330	25	06/04/2022 04:21	WG1874219
1,3,5-Trimethylbenzene	U		0.00878	0.0330	25	06/04/2022 04:21	WG1874219
Xylenes, Total	U		0.0165	0.0990	25	06/04/2022 04:21	WG1874219
(S) Toluene-d8	104			75.0-131		06/04/2022 04:21	WG1874219
(S) 4-Bromofluorobenzene	87.0			67.0-138		06/04/2022 04:21	WG1874219
(S) 1,2-Dichloroethane-d4	101			70.0-130		06/04/2022 04:21	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		99.1	229	1	06/08/2022 18:59	WG1874253
AK103 RRO C25-C36	176	<u>J</u>	76.2	229	1	06/08/2022 18:59	WG1874253
(S) o-Terphenyl	94.7			50.0-150		06/08/2022 18:59	WG1874253
(S) n-Triacontane d62	72.5			50.0-150		06/08/2022 18:59	WG1874253

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00263	0.00687	1	06/10/2022 00:03	WG1875680
Acenaphthene	U		0.00239	0.00687	1	06/10/2022 00:03	WG1875680
Acenaphthylene	U		0.00247	0.00687	1	06/10/2022 00:03	WG1875680
Benzo(a)anthracene	0.0102		0.00198	0.00687	1	06/10/2022 00:03	WG1875680
Benzo(a)pyrene	0.0112		0.00205	0.00687	1	06/10/2022 00:03	WG1875680
Benzo(b)fluoranthene	0.0177		0.00175	0.00687	1	06/10/2022 00:03	WG1875680
Benzo(g,h,i)perylene	0.00995		0.00203	0.00687	1	06/10/2022 00:03	WG1875680
Benzo(k)fluoranthene	0.00621	<u>J</u>	0.00246	0.00687	1	06/10/2022 00:03	WG1875680
Chrysene	0.00868		0.00266	0.00687	1	06/10/2022 00:03	WG1875680
Dibenz(a,h)anthracene	U		0.00197	0.00687	1	06/10/2022 00:03	WG1875680
Fluoranthene	0.0254		0.00260	0.00687	1	06/10/2022 00:03	WG1875680
Fluorene	U		0.00235	0.00687	1	06/10/2022 00:03	WG1875680
Indeno(1,2,3-cd)pyrene	0.00848		0.00207	0.00687	1	06/10/2022 00:03	WG1875680
Naphthalene	U		0.00467	0.0229	1	06/10/2022 00:03	WG1875680
Phenanthrene	0.0135		0.00264	0.00687	1	06/10/2022 00:03	WG1875680
Pyrene	0.0191		0.00229	0.00687	1	06/10/2022 00:03	WG1875680
1-Methylnaphthalene	U		0.00514	0.0229	1	06/10/2022 00:03	WG1875680
2-Methylnaphthalene	U		0.00489	0.0229	1	06/10/2022 00:03	WG1875680
2-Chloronaphthalene	U		0.00533	0.0229	1	06/10/2022 00:03	WG1875680

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	70.6			14.0-149		06/10/2022 00:03	WG1875680
(S) 2-Fluorobiphenyl	71.7			34.0-125		06/10/2022 00:03	WG1875680
(S) p-Terphenyl-d14	85.5			23.0-120		06/10/2022 00:03	WG1875680

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	49.3		1	06/04/2022 09:44	WG1874230

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		2.09	5.47	1.08	06/03/2022 19:16	WG1874032
(S) a,a,a-Trifluorotoluene(FID)	79.7			50.0-150		06/03/2022 19:16	WG1874032

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	2.15	5.20	38.5	06/04/2022 04:41	WG1874219
Acrylonitrile	U		0.210	1.04	38.5	06/04/2022 04:41	WG1874219
Benzene	U		0.0388	0.104	38.5	06/04/2022 04:41	WG1874219
Bromobenzene	U		0.0286	0.104	38.5	06/04/2022 04:41	WG1874219
Bromodichloromethane	U		0.0752	0.104	38.5	06/04/2022 04:41	WG1874219
Bromoform	U		0.0439	0.104	38.5	06/04/2022 04:41	WG1874219
Bromomethane	U	C3	0.121	0.520	38.5	06/04/2022 04:41	WG1874219
n-Butylbenzene	U		0.0267	0.104	38.5	06/04/2022 04:41	WG1874219
sec-Butylbenzene	U		0.0208	0.104	38.5	06/04/2022 04:41	WG1874219
tert-Butylbenzene	U		0.0214	0.104	38.5	06/04/2022 04:41	WG1874219
Carbon tetrachloride	U		0.0257	0.104	38.5	06/04/2022 04:41	WG1874219
Chlorobenzene	U		0.0199	0.104	38.5	06/04/2022 04:41	WG1874219
Chlorodibromomethane	U		0.0232	0.104	38.5	06/04/2022 04:41	WG1874219
Chloroethane	U		0.104	0.520	38.5	06/04/2022 04:41	WG1874219
Chloroform	U		0.107	0.520	38.5	06/04/2022 04:41	WG1874219
Chloromethane	U		0.0673	0.259	38.5	06/04/2022 04:41	WG1874219
2-Chlorotoluene	U		0.0233	0.104	38.5	06/04/2022 04:41	WG1874219
4-Chlorotoluene	U		0.0717	0.104	38.5	06/04/2022 04:41	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.197	0.520	38.5	06/04/2022 04:41	WG1874219
1,2-Dibromoethane	U		0.0259	0.104	38.5	06/04/2022 04:41	WG1874219
Dibromomethane	U		0.0364	0.104	38.5	06/04/2022 04:41	WG1874219
1,2-Dichlorobenzene	U		0.0442	0.104	38.5	06/04/2022 04:41	WG1874219
1,3-Dichlorobenzene	U		0.0622	0.104	38.5	06/04/2022 04:41	WG1874219
1,4-Dichlorobenzene	U		0.0862	0.104	38.5	06/04/2022 04:41	WG1874219
Dichlorodifluoromethane	U		0.0296	0.520	38.5	06/04/2022 04:41	WG1874219
1,1-Dichloroethane	U		0.0277	0.104	38.5	06/04/2022 04:41	WG1874219
1,2-Dichloroethane	U		0.0466	0.104	38.5	06/04/2022 04:41	WG1874219
1,1-Dichloroethene	U		0.0369	0.104	38.5	06/04/2022 04:41	WG1874219
cis-1,2-Dichloroethene	U		0.0493	0.104	38.5	06/04/2022 04:41	WG1874219
trans-1,2-Dichloroethene	U		0.0520	0.104	38.5	06/04/2022 04:41	WG1874219
1,2-Dichloropropane	U		0.0170	0.104	38.5	06/04/2022 04:41	WG1874219
1,1-Dichloropropene	U		0.0388	0.104	38.5	06/04/2022 04:41	WG1874219
1,3-Dichloropropane	U		0.0233	0.104	38.5	06/04/2022 04:41	WG1874219
cis-1,3-Dichloropropene	U		0.0442	0.104	38.5	06/04/2022 04:41	WG1874219
trans-1,3-Dichloropropene	U		0.0700	0.104	38.5	06/04/2022 04:41	WG1874219
2,2-Dichloropropane	U		0.0388	0.104	38.5	06/04/2022 04:41	WG1874219
Di-isopropyl ether	U		0.0229	0.104	38.5	06/04/2022 04:41	WG1874219
Ethylbenzene	U		0.0310	0.104	38.5	06/04/2022 04:41	WG1874219
Hexachloro-1,3-butadiene	U		0.0356	0.104	38.5	06/04/2022 04:41	WG1874219
Isopropylbenzene	U		0.0442	0.104	38.5	06/04/2022 04:41	WG1874219
p-Isopropyltoluene	U		0.0211	0.104	38.5	06/04/2022 04:41	WG1874219
2-Butanone (MEK)	U		0.485	1.04	38.5	06/04/2022 04:41	WG1874219
Methylene Chloride	U		0.104	0.520	38.5	06/04/2022 04:41	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0986	1.04	38.5	06/04/2022 04:41	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0364	0.104	38.5	06/04/2022 04:41	WG1874219
Naphthalene	U	<u>C3</u>	0.517	0.520	38.5	06/04/2022 04:41	WG1874219
n-Propylbenzene	U		0.0214	0.104	38.5	06/04/2022 04:41	WG1874219
Styrene	U		0.0231	0.104	38.5	06/04/2022 04:41	WG1874219
1,1,1,2-Tetrachloroethane	U		0.0307	0.104	38.5	06/04/2022 04:41	WG1874219
1,1,2,2-Tetrachloroethane	U		0.0239	0.104	38.5	06/04/2022 04:41	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0442	0.104	38.5	06/04/2022 04:41	WG1874219
Tetrachloroethene	U		0.0337	0.104	38.5	06/04/2022 04:41	WG1874219
Toluene	U		0.128	0.520	38.5	06/04/2022 04:41	WG1874219
1,2,3-Trichlorobenzene	U		0.0318	0.104	38.5	06/04/2022 04:41	WG1874219
1,2,4-Trichlorobenzene	U		0.0401	0.104	38.5	06/04/2022 04:41	WG1874219
1,1,1-Trichloroethane	U		0.0383	0.104	38.5	06/04/2022 04:41	WG1874219
1,1,2-Trichloroethane	U		0.0442	0.104	38.5	06/04/2022 04:41	WG1874219
Trichloroethene	U		0.0207	0.104	38.5	06/04/2022 04:41	WG1874219
Trichlorofluoromethane	U		0.0369	0.520	38.5	06/04/2022 04:41	WG1874219
1,2,3-Trichloropropane	U		0.0253	0.259	38.5	06/04/2022 04:41	WG1874219
1,2,4-Trimethylbenzene	U		0.0219	0.104	38.5	06/04/2022 04:41	WG1874219
1,2,3-Trimethylbenzene	U		0.0296	0.104	38.5	06/04/2022 04:41	WG1874219
Vinyl chloride	U		0.0234	0.104	38.5	06/04/2022 04:41	WG1874219
1,3,5-Trimethylbenzene	U		0.0275	0.104	38.5	06/04/2022 04:41	WG1874219
Xylenes, Total	U		0.0520	0.312	38.5	06/04/2022 04:41	WG1874219
(S) Toluene-d8	105			75.0-131		06/04/2022 04:41	WG1874219
(S) 4-Bromofluorobenzene	93.2			67.0-138		06/04/2022 04:41	WG1874219
(S) 1,2-Dichloroethane-d4	103			70.0-130		06/04/2022 04:41	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		175	405	1	06/08/2022 07:00	WG1874253
AK103 RRO C25-C36	U		135	405	1	06/08/2022 07:00	WG1874253
(S) o-Terphenyl	78.4			50.0-150		06/08/2022 07:00	WG1874253
(S) n-Triacontane d62	88.9			50.0-150		06/08/2022 07:00	WG1874253

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00466	0.0122	1	06/09/2022 22:17	WG1875680
Acenaphthene	U		0.00424	0.0122	1	06/09/2022 22:17	WG1875680
Acenaphthylene	U		0.00438	0.0122	1	06/09/2022 22:17	WG1875680
Benzo(a)anthracene	U		0.00351	0.0122	1	06/09/2022 22:17	WG1875680
Benzo(a)pyrene	U		0.00363	0.0122	1	06/09/2022 22:17	WG1875680
Benzo(b)fluoranthene	U		0.00310	0.0122	1	06/09/2022 22:17	WG1875680
Benzo(g,h,i)perylene	U		0.00359	0.0122	1	06/09/2022 22:17	WG1875680
Benzo(k)fluoranthene	U		0.00436	0.0122	1	06/09/2022 22:17	WG1875680
Chrysene	U		0.00470	0.0122	1	06/09/2022 22:17	WG1875680
Dibenz(a,h)anthracene	U		0.00349	0.0122	1	06/09/2022 22:17	WG1875680
Fluoranthene	U		0.00460	0.0122	1	06/09/2022 22:17	WG1875680
Fluorene	U		0.00415	0.0122	1	06/09/2022 22:17	WG1875680
Indeno(1,2,3-cd)pyrene	U		0.00367	0.0122	1	06/09/2022 22:17	WG1875680
Naphthalene	U		0.00827	0.0405	1	06/09/2022 22:17	WG1875680
Phenanthrene	U		0.00468	0.0122	1	06/09/2022 22:17	WG1875680
Pyrene	U		0.00405	0.0122	1	06/09/2022 22:17	WG1875680
1-Methylnaphthalene	U		0.00910	0.0405	1	06/09/2022 22:17	WG1875680
2-Methylnaphthalene	U		0.00865	0.0405	1	06/09/2022 22:17	WG1875680
2-Chloronaphthalene	U		0.00944	0.0405	1	06/09/2022 22:17	WG1875680

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	44.1			14.0-149		06/09/2022 22:17	WG1875680
(S) 2-Fluorobiphenyl	52.2			34.0-125		06/09/2022 22:17	WG1875680
(S) p-Terphenyl-d14	61.9			23.0-120		06/09/2022 22:17	WG1875680

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	93.3		1	06/04/2022 09:44	WG1874230

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.17	3.09	1.15	06/03/2022 20:11	WG1874032
(S) a,a,a-Trifluorotoluene(FID)	80.0			50.0-150		06/03/2022 20:11	WG1874032

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.617	1.49	25	06/04/2022 05:00	WG1874219
Acrylonitrile	U		0.0601	0.298	25	06/04/2022 05:00	WG1874219
Benzene	U		0.0112	0.0298	25	06/04/2022 05:00	WG1874219
Bromobenzene	U		0.00819	0.0298	25	06/04/2022 05:00	WG1874219
Bromodichloromethane	U		0.0215	0.0298	25	06/04/2022 05:00	WG1874219
Bromoform	U		0.0126	0.0298	25	06/04/2022 05:00	WG1874219
Bromomethane	U	C3	0.0349	0.149	25	06/04/2022 05:00	WG1874219
n-Butylbenzene	U		0.00768	0.0298	25	06/04/2022 05:00	WG1874219
sec-Butylbenzene	U		0.00599	0.0298	25	06/04/2022 05:00	WG1874219
tert-Butylbenzene	U		0.00613	0.0298	25	06/04/2022 05:00	WG1874219
Carbon tetrachloride	U		0.00738	0.0298	25	06/04/2022 05:00	WG1874219
Chlorobenzene	U		0.00571	0.0298	25	06/04/2022 05:00	WG1874219
Chlorodibromomethane	U		0.00667	0.0298	25	06/04/2022 05:00	WG1874219
Chloroethane	U		0.0298	0.149	25	06/04/2022 05:00	WG1874219
Chloroform	U		0.0307	0.149	25	06/04/2022 05:00	WG1874219
Chloromethane	U		0.0194	0.0744	25	06/04/2022 05:00	WG1874219
2-Chlorotoluene	U		0.00670	0.0298	25	06/04/2022 05:00	WG1874219
4-Chlorotoluene	U		0.0206	0.0298	25	06/04/2022 05:00	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0565	0.149	25	06/04/2022 05:00	WG1874219
1,2-Dibromoethane	U		0.00744	0.0298	25	06/04/2022 05:00	WG1874219
Dibromomethane	U		0.0104	0.0298	25	06/04/2022 05:00	WG1874219
1,2-Dichlorobenzene	U		0.0126	0.0298	25	06/04/2022 05:00	WG1874219
1,3-Dichlorobenzene	U		0.0179	0.0298	25	06/04/2022 05:00	WG1874219
1,4-Dichlorobenzene	U		0.0248	0.0298	25	06/04/2022 05:00	WG1874219
Dichlorodifluoromethane	U		0.00853	0.149	25	06/04/2022 05:00	WG1874219
1,1-Dichloroethane	U		0.00798	0.0298	25	06/04/2022 05:00	WG1874219
1,2-Dichloroethane	U		0.0135	0.0298	25	06/04/2022 05:00	WG1874219
1,1-Dichloroethene	U		0.0106	0.0298	25	06/04/2022 05:00	WG1874219
cis-1,2-Dichloroethene	U		0.0142	0.0298	25	06/04/2022 05:00	WG1874219
trans-1,2-Dichloroethene	U		0.0149	0.0298	25	06/04/2022 05:00	WG1874219
1,2-Dichloropropane	U		0.00488	0.0298	25	06/04/2022 05:00	WG1874219
1,1-Dichloropropene	U		0.0112	0.0298	25	06/04/2022 05:00	WG1874219
1,3-Dichloropropane	U		0.00670	0.0298	25	06/04/2022 05:00	WG1874219
cis-1,3-Dichloropropene	U		0.0126	0.0298	25	06/04/2022 05:00	WG1874219
trans-1,3-Dichloropropene	U		0.0201	0.0298	25	06/04/2022 05:00	WG1874219
2,2-Dichloropropane	U		0.0112	0.0298	25	06/04/2022 05:00	WG1874219
Di-isopropyl ether	U		0.00658	0.0298	25	06/04/2022 05:00	WG1874219
Ethylbenzene	U		0.00893	0.0298	25	06/04/2022 05:00	WG1874219
Hexachloro-1,3-butadiene	U		0.0102	0.0298	25	06/04/2022 05:00	WG1874219
Isopropylbenzene	U		0.0126	0.0298	25	06/04/2022 05:00	WG1874219
p-Isopropyltoluene	U		0.00607	0.0298	25	06/04/2022 05:00	WG1874219
2-Butanone (MEK)	U		0.139	0.298	25	06/04/2022 05:00	WG1874219
Methylene Chloride	U		0.0298	0.149	25	06/04/2022 05:00	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0283	0.298	25	06/04/2022 05:00	WG1874219

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.0104	0.0298	25	06/04/2022 05:00	WG1874219
Naphthalene	U	<u>C3</u>	0.149	0.149	25	06/04/2022 05:00	WG1874219
n-Propylbenzene	U		0.00613	0.0298	25	06/04/2022 05:00	WG1874219
Styrene	U		0.00664	0.0298	25	06/04/2022 05:00	WG1874219
1,1,1,2-Tetrachloroethane	U		0.00881	0.0298	25	06/04/2022 05:00	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00687	0.0298	25	06/04/2022 05:00	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0127	0.0298	25	06/04/2022 05:00	WG1874219
Tetrachloroethene	U		0.00968	0.0298	25	06/04/2022 05:00	WG1874219
Toluene	U		0.0367	0.149	25	06/04/2022 05:00	WG1874219
1,2,3-Trichlorobenzene	U		0.00911	0.0298	25	06/04/2022 05:00	WG1874219
1,2,4-Trichlorobenzene	U		0.0115	0.0298	25	06/04/2022 05:00	WG1874219
1,1,1-Trichloroethane	U		0.0110	0.0298	25	06/04/2022 05:00	WG1874219
1,1,2-Trichloroethane	U		0.0126	0.0298	25	06/04/2022 05:00	WG1874219
Trichloroethene	U		0.00595	0.0298	25	06/04/2022 05:00	WG1874219
Trichlorofluoromethane	U		0.0106	0.149	25	06/04/2022 05:00	WG1874219
1,2,3-Trichloropropane	U		0.00726	0.0744	25	06/04/2022 05:00	WG1874219
1,2,4-Trimethylbenzene	U		0.00629	0.0298	25	06/04/2022 05:00	WG1874219
1,2,3-Trimethylbenzene	U		0.00853	0.0298	25	06/04/2022 05:00	WG1874219
Vinyl chloride	U		0.00673	0.0298	25	06/04/2022 05:00	WG1874219
1,3,5-Trimethylbenzene	U		0.00792	0.0298	25	06/04/2022 05:00	WG1874219
Xylenes, Total	U		0.0149	0.0893	25	06/04/2022 05:00	WG1874219
(S) Toluene-d8	110			75.0-131		06/04/2022 05:00	WG1874219
(S) 4-Bromofluorobenzene	91.4			67.0-138		06/04/2022 05:00	WG1874219
(S) 1,2-Dichloroethane-d4	99.7			70.0-130		06/04/2022 05:00	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		92.8	214	1	06/06/2022 21:50	WG1873761
AK103 RRO C25-C36	175	<u>J</u>	71.3	214	1	06/06/2022 21:50	WG1873761
(S) o-Terphenyl	95.7			50.0-150		06/06/2022 21:50	WG1873761
(S) n-Triacontane d62	81.4			50.0-150		06/06/2022 21:50	WG1873761

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00246	0.00643	1	06/09/2022 23:45	WG1875680
Acenaphthene	U		0.00224	0.00643	1	06/09/2022 23:45	WG1875680
Acenaphthylene	U		0.00231	0.00643	1	06/09/2022 23:45	WG1875680
Benzo(a)anthracene	U		0.00185	0.00643	1	06/09/2022 23:45	WG1875680
Benzo(a)pyrene	U		0.00192	0.00643	1	06/09/2022 23:45	WG1875680
Benzo(b)fluoranthene	0.00329	<u>J</u>	0.00164	0.00643	1	06/09/2022 23:45	WG1875680
Benzo(g,h,i)perylene	0.00224	<u>J</u>	0.00190	0.00643	1	06/09/2022 23:45	WG1875680
Benzo(k)fluoranthene	U		0.00230	0.00643	1	06/09/2022 23:45	WG1875680
Chrysene	U		0.00249	0.00643	1	06/09/2022 23:45	WG1875680
Dibenz(a,h)anthracene	U		0.00184	0.00643	1	06/09/2022 23:45	WG1875680
Fluoranthene	U		0.00243	0.00643	1	06/09/2022 23:45	WG1875680
Fluorene	U		0.00220	0.00643	1	06/09/2022 23:45	WG1875680
Indeno(1,2,3-cd)pyrene	U		0.00194	0.00643	1	06/09/2022 23:45	WG1875680
Naphthalene	U		0.00437	0.0214	1	06/09/2022 23:45	WG1875680
Phenanthrene	U		0.00247	0.00643	1	06/09/2022 23:45	WG1875680
Pyrene	0.00227	<u>J</u>	0.00214	0.00643	1	06/09/2022 23:45	WG1875680
1-Methylnaphthalene	U		0.00481	0.0214	1	06/09/2022 23:45	WG1875680
2-Methylnaphthalene	U		0.00457	0.0214	1	06/09/2022 23:45	WG1875680
2-Chloronaphthalene	U		0.00499	0.0214	1	06/09/2022 23:45	WG1875680

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
(S) Nitrobenzene-d5	74.5			14.0-149		06/09/2022 23:45	WG1875680
(S) 2-Fluorobiphenyl	79.4			34.0-125		06/09/2022 23:45	WG1875680
(S) p-Terphenyl-d14	98.5			23.0-120		06/09/2022 23:45	WG1875680

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Total Solids by Method 2540 G-2011

Analyte	Result	Qualifier	Dilution	Analysis	Batch
	%			date / time	
Total Solids	96.7		1	06/04/2022 09:44	WG1874230

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		1.11	2.93	1.13	06/03/2022 20:38	WG1874032
(S) a,a,a-Trifluorotoluene(FID)	90.3			50.0-150		06/03/2022 20:38	WG1874032

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry)	Qualifier	MDL (dry)	RDL (dry)	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U	J4	0.555	1.34	25	06/04/2022 05:20	WG1874219
Acrylonitrile	U		0.0541	0.268	25	06/04/2022 05:20	WG1874219
Benzene	U		0.0100	0.0268	25	06/04/2022 05:20	WG1874219
Bromobenzene	U		0.00737	0.0268	25	06/04/2022 05:20	WG1874219
Bromodichloromethane	U		0.0194	0.0268	25	06/04/2022 05:20	WG1874219
Bromoform	U		0.0114	0.0268	25	06/04/2022 05:20	WG1874219
Bromomethane	U	C3	0.0314	0.134	25	06/04/2022 05:20	WG1874219
n-Butylbenzene	U		0.00691	0.0268	25	06/04/2022 05:20	WG1874219
sec-Butylbenzene	U		0.00539	0.0268	25	06/04/2022 05:20	WG1874219
tert-Butylbenzene	U		0.00552	0.0268	25	06/04/2022 05:20	WG1874219
Carbon tetrachloride	U		0.00664	0.0268	25	06/04/2022 05:20	WG1874219
Chlorobenzene	U		0.00514	0.0268	25	06/04/2022 05:20	WG1874219
Chlorodibromomethane	U		0.00600	0.0268	25	06/04/2022 05:20	WG1874219
Chloroethane	U		0.0268	0.134	25	06/04/2022 05:20	WG1874219
Chloroform	U		0.0276	0.134	25	06/04/2022 05:20	WG1874219
Chloromethane	U		0.0175	0.0669	25	06/04/2022 05:20	WG1874219
2-Chlorotoluene	U		0.00603	0.0268	25	06/04/2022 05:20	WG1874219
4-Chlorotoluene	U		0.0185	0.0268	25	06/04/2022 05:20	WG1874219
1,2-Dibromo-3-Chloropropane	U		0.0509	0.134	25	06/04/2022 05:20	WG1874219
1,2-Dibromoethane	U		0.00669	0.0268	25	06/04/2022 05:20	WG1874219
Dibromomethane	U		0.00937	0.0268	25	06/04/2022 05:20	WG1874219
1,2-Dichlorobenzene	U		0.0114	0.0268	25	06/04/2022 05:20	WG1874219
1,3-Dichlorobenzene	U		0.0161	0.0268	25	06/04/2022 05:20	WG1874219
1,4-Dichlorobenzene	U		0.0223	0.0268	25	06/04/2022 05:20	WG1874219
Dichlorodifluoromethane	U		0.00768	0.134	25	06/04/2022 05:20	WG1874219
1,1-Dichloroethane	U		0.00718	0.0268	25	06/04/2022 05:20	WG1874219
1,2-Dichloroethane	U		0.0121	0.0268	25	06/04/2022 05:20	WG1874219
1,1-Dichloroethene	U		0.00951	0.0268	25	06/04/2022 05:20	WG1874219
cis-1,2-Dichloroethene	U		0.0127	0.0268	25	06/04/2022 05:20	WG1874219
trans-1,2-Dichloroethene	U		0.0134	0.0268	25	06/04/2022 05:20	WG1874219
1,2-Dichloropropane	U		0.00439	0.0268	25	06/04/2022 05:20	WG1874219
1,1-Dichloropropene	U		0.0100	0.0268	25	06/04/2022 05:20	WG1874219
1,3-Dichloropropane	U		0.00603	0.0268	25	06/04/2022 05:20	WG1874219
cis-1,3-Dichloropropene	U		0.0114	0.0268	25	06/04/2022 05:20	WG1874219
trans-1,3-Dichloropropene	U		0.0181	0.0268	25	06/04/2022 05:20	WG1874219
2,2-Dichloropropane	U		0.0100	0.0268	25	06/04/2022 05:20	WG1874219
Di-isopropyl ether	U		0.00592	0.0268	25	06/04/2022 05:20	WG1874219
Ethylbenzene	U		0.00803	0.0268	25	06/04/2022 05:20	WG1874219
Hexachloro-1,3-butadiene	U		0.00916	0.0268	25	06/04/2022 05:20	WG1874219
Isopropylbenzene	U		0.0114	0.0268	25	06/04/2022 05:20	WG1874219
p-Isopropyltoluene	0.00846	J	0.00546	0.0268	25	06/04/2022 05:20	WG1874219
2-Butanone (MEK)	U		0.125	0.268	25	06/04/2022 05:20	WG1874219
Methylene Chloride	U		0.0268	0.134	25	06/04/2022 05:20	WG1874219
4-Methyl-2-pentanone (MIBK)	U		0.0255	0.268	25	06/04/2022 05:20	WG1874219

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Methyl tert-butyl ether	U		0.00937	0.0268	25	06/04/2022 05:20	WG1874219
Naphthalene	U	C3	0.134	0.134	25	06/04/2022 05:20	WG1874219
n-Propylbenzene	U		0.00552	0.0268	25	06/04/2022 05:20	WG1874219
Styrene	U		0.00598	0.0268	25	06/04/2022 05:20	WG1874219
1,1,1,2-Tetrachloroethane	U		0.00793	0.0268	25	06/04/2022 05:20	WG1874219
1,1,2,2-Tetrachloroethane	U		0.00618	0.0268	25	06/04/2022 05:20	WG1874219
1,1,2-Trichlorotrifluoroethane	U		0.0115	0.0268	25	06/04/2022 05:20	WG1874219
Tetrachloroethene	U		0.00871	0.0268	25	06/04/2022 05:20	WG1874219
Toluene	U		0.0330	0.134	25	06/04/2022 05:20	WG1874219
1,2,3-Trichlorobenzene	U		0.00819	0.0268	25	06/04/2022 05:20	WG1874219
1,2,4-Trichlorobenzene	U		0.0104	0.0268	25	06/04/2022 05:20	WG1874219
1,1,1-Trichloroethane	U		0.00991	0.0268	25	06/04/2022 05:20	WG1874219
1,1,2-Trichloroethane	U		0.0114	0.0268	25	06/04/2022 05:20	WG1874219
Trichloroethene	U		0.00536	0.0268	25	06/04/2022 05:20	WG1874219
Trichlorofluoromethane	U		0.00953	0.134	25	06/04/2022 05:20	WG1874219
1,2,3-Trichloropropane	U		0.00653	0.0669	25	06/04/2022 05:20	WG1874219
1,2,4-Trimethylbenzene	U		0.00566	0.0268	25	06/04/2022 05:20	WG1874219
1,2,3-Trimethylbenzene	U		0.00768	0.0268	25	06/04/2022 05:20	WG1874219
Vinyl chloride	U		0.00605	0.0268	25	06/04/2022 05:20	WG1874219
1,3,5-Trimethylbenzene	U		0.00712	0.0268	25	06/04/2022 05:20	WG1874219
Xylenes, Total	U		0.0134	0.0803	25	06/04/2022 05:20	WG1874219
(S) Toluene-d8	100			75.0-131		06/04/2022 05:20	WG1874219
(S) 4-Bromofluorobenzene	90.9			67.0-138		06/04/2022 05:20	WG1874219
(S) 1,2-Dichloroethane-d4	103			70.0-130		06/04/2022 05:20	WG1874219



Semi-Volatile Organic Compounds (GC) by Method AK102/103

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
AK102 DRO C10-C25	U		1790	4140	20	06/07/2022 05:42	WG1874252
AK103 RRO C25-C36	9580		1380	4140	20	06/07/2022 05:42	WG1874252
(S) o-Terphenyl	115	J7		50.0-150		06/07/2022 05:42	WG1874252
(S) n-Triacontane d62	0.000	J7		50.0-150		06/07/2022 05:42	WG1874252

Sample Narrative:

L1499074-05 WG1874252: Cannot run at lower dilution due to viscosity of extract

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
Anthracene	U		0.00238	0.00621	1	06/09/2022 15:07	WG1875672
Acenaphthene	U		0.00216	0.00621	1	06/09/2022 15:07	WG1875672
Acenaphthylene	U		0.00223	0.00621	1	06/09/2022 15:07	WG1875672
Benzo(a)anthracene	0.00733		0.00179	0.00621	1	06/09/2022 15:07	WG1875672
Benzo(a)pyrene	0.0143		0.00185	0.00621	1	06/09/2022 15:07	WG1875672
Benzo(b)fluoranthene	0.0201		0.00158	0.00621	1	06/09/2022 15:07	WG1875672
Benzo(g,h,i)perylene	0.0285		0.00183	0.00621	1	06/09/2022 15:07	WG1875672
Benzo(k)fluoranthene	U		0.00222	0.00621	1	06/09/2022 15:07	WG1875672
Chrysene	0.0179		0.00240	0.00621	1	06/09/2022 15:07	WG1875672
Dibenz(a,h)anthracene	0.00850		0.00178	0.00621	1	06/09/2022 15:07	WG1875672
Fluoranthene	0.00875		0.00235	0.00621	1	06/09/2022 15:07	WG1875672
Fluorene	U		0.00212	0.00621	1	06/09/2022 15:07	WG1875672
Indeno(1,2,3-cd)pyrene	0.00726		0.00187	0.00621	1	06/09/2022 15:07	WG1875672
Naphthalene	0.00616	J	0.00422	0.0207	1	06/09/2022 15:07	WG1875672
Phenanthrene	0.00373	J	0.00239	0.00621	1	06/09/2022 15:07	WG1875672
Pyrene	0.0188		0.00207	0.00621	1	06/09/2022 15:07	WG1875672

Semi Volatile Organic Compounds (GC/MS) by Method 8270D-SIM

Analyte	Result (dry) mg/kg	Qualifier	MDL (dry) mg/kg	RDL (dry) mg/kg	Dilution	Analysis date / time	Batch
1-Methylnaphthalene	U		0.00464	0.0207	1	06/09/2022 15:07	WG1875672
2-Methylnaphthalene	U		0.00442	0.0207	1	06/09/2022 15:07	WG1875672
2-Chloronaphthalene	U		0.00482	0.0207	1	06/09/2022 15:07	WG1875672
<i>(S)</i> Nitrobenzene-d5	47.3			14.0-149		06/09/2022 15:07	WG1875672
<i>(S)</i> 2-Fluorobiphenyl	39.7			34.0-125		06/09/2022 15:07	WG1875672
<i>(S)</i> p-Terphenyl-d14	48.4			23.0-120		06/09/2022 15:07	WG1875672

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Volatile Organic Compounds (GC) by Method AK101

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
TPHGAK C6 to C10	U		0.950	2.50	1	06/03/2022 21:04	WG1874032
(S) a, a, a-Trifluorotoluene(FID)	93.1			50.0-150		06/03/2022 21:04	WG1874032

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result	Qualifier	MDL	RDL	Dilution	Analysis	Batch
	mg/kg		mg/kg	mg/kg		date / time	
Acetone	U		0.0207	0.0500	1	06/08/2022 21:56	WG1876337
Acrylonitrile	U		0.00202	0.0100	1	06/08/2022 21:56	WG1876337
Benzene	U		0.000375	0.00100	1	06/08/2022 21:56	WG1876337
Bromobenzene	U		0.000275	0.00100	1	06/08/2022 21:56	WG1876337
Bromodichloromethane	U		0.000725	0.00100	1	06/08/2022 21:56	WG1876337
Bromoform	U	J4	0.000424	0.00100	1	06/08/2022 21:56	WG1876337
Bromomethane	U		0.00117	0.00500	1	06/08/2022 21:56	WG1876337
n-Butylbenzene	U		0.000258	0.00100	1	06/08/2022 21:56	WG1876337
sec-Butylbenzene	U		0.000201	0.00100	1	06/08/2022 21:56	WG1876337
tert-Butylbenzene	U		0.000206	0.00100	1	06/08/2022 21:56	WG1876337
Carbon tetrachloride	U		0.000248	0.00100	1	06/08/2022 21:56	WG1876337
Chlorobenzene	U		0.000192	0.00100	1	06/08/2022 21:56	WG1876337
Chlorodibromomethane	U		0.000224	0.00100	1	06/08/2022 21:56	WG1876337
Chloroethane	U		0.00100	0.00500	1	06/08/2022 21:56	WG1876337
Chloroform	U		0.00103	0.00500	1	06/08/2022 21:56	WG1876337
Chloromethane	U		0.000650	0.00250	1	06/08/2022 21:56	WG1876337
2-Chlorotoluene	U		0.000225	0.00100	1	06/08/2022 21:56	WG1876337
4-Chlorotoluene	U		0.000691	0.00100	1	06/08/2022 21:56	WG1876337
1,2-Dibromo-3-Chloropropane	U	J4	0.00190	0.00500	1	06/08/2022 21:56	WG1876337
1,2-Dibromoethane	U	J4	0.000250	0.00100	1	06/08/2022 21:56	WG1876337
Dibromomethane	U	J4	0.000350	0.00100	1	06/08/2022 21:56	WG1876337
1,2-Dichlorobenzene	U		0.000425	0.00100	1	06/08/2022 21:56	WG1876337
1,3-Dichlorobenzene	U		0.000600	0.00100	1	06/08/2022 21:56	WG1876337
1,4-Dichlorobenzene	U		0.000830	0.00100	1	06/08/2022 21:56	WG1876337
Dichlorodifluoromethane	U		0.000287	0.00500	1	06/08/2022 21:56	WG1876337
1,1-Dichloroethane	U		0.000268	0.00100	1	06/08/2022 21:56	WG1876337
1,2-Dichloroethane	U		0.000450	0.00100	1	06/08/2022 21:56	WG1876337
1,1-Dichloroethene	U		0.000355	0.00100	1	06/08/2022 21:56	WG1876337
cis-1,2-Dichloroethene	U		0.000475	0.00100	1	06/08/2022 21:56	WG1876337
trans-1,2-Dichloroethene	U		0.000500	0.00100	1	06/08/2022 21:56	WG1876337
1,2-Dichloropropane	U		0.000164	0.00100	1	06/08/2022 21:56	WG1876337
1,1-Dichloropropene	U		0.000375	0.00100	1	06/08/2022 21:56	WG1876337
1,3-Dichloropropane	U		0.000225	0.00100	1	06/08/2022 21:56	WG1876337
cis-1,3-Dichloropropene	U		0.000425	0.00100	1	06/08/2022 21:56	WG1876337
trans-1,3-Dichloropropene	U		0.000675	0.00100	1	06/08/2022 21:56	WG1876337
2,2-Dichloropropane	U		0.000375	0.00100	1	06/08/2022 21:56	WG1876337
Di-isopropyl ether	U		0.000221	0.00100	1	06/08/2022 21:56	WG1876337
Ethylbenzene	U		0.000300	0.00100	1	06/08/2022 21:56	WG1876337
Hexachloro-1,3-butadiene	U		0.000342	0.00100	1	06/08/2022 21:56	WG1876337
Isopropylbenzene	U		0.000425	0.00100	1	06/08/2022 21:56	WG1876337
p-Isopropyltoluene	U		0.000204	0.00100	1	06/08/2022 21:56	WG1876337
2-Butanone (MEK)	U		0.00468	0.0100	1	06/08/2022 21:56	WG1876337
Methylene Chloride	U		0.00100	0.00500	1	06/08/2022 21:56	WG1876337
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100	1	06/08/2022 21:56	WG1876337
Methyl tert-butyl ether	U		0.000350	0.00100	1	06/08/2022 21:56	WG1876337
Naphthalene	U	J4	0.00498	0.00500	1	06/08/2022 21:56	WG1876337
n-Propylbenzene	U		0.000206	0.00100	1	06/08/2022 21:56	WG1876337
Styrene	U		0.000223	0.00100	1	06/08/2022 21:56	WG1876337
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100	1	06/08/2022 21:56	WG1876337

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

TRIP BLANK

SAMPLE RESULTS - 06

Collected date/time: 05/26/22 00:00

L1499074

Volatile Organic Compounds (GC/MS) by Method 8260D

Analyte	Result mg/kg	Qualifier	MDL mg/kg	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100	1	06/08/2022 21:56	WG1876337
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100	1	06/08/2022 21:56	WG1876337
Tetrachloroethene	U		0.000325	0.00100	1	06/08/2022 21:56	WG1876337
Toluene	U		0.00123	0.00500	1	06/08/2022 21:56	WG1876337
1,2,3-Trichlorobenzene	U		0.000306	0.00100	1	06/08/2022 21:56	WG1876337
1,2,4-Trichlorobenzene	U		0.000388	0.00100	1	06/08/2022 21:56	WG1876337
1,1,1-Trichloroethane	U		0.000370	0.00100	1	06/08/2022 21:56	WG1876337
1,1,2-Trichloroethane	U	J4	0.000425	0.00100	1	06/08/2022 21:56	WG1876337
Trichloroethene	U		0.000200	0.00100	1	06/08/2022 21:56	WG1876337
Trichlorofluoromethane	U		0.000356	0.00500	1	06/08/2022 21:56	WG1876337
1,2,3-Trichloropropane	U	J4	0.000244	0.00250	1	06/08/2022 21:56	WG1876337
1,2,4-Trimethylbenzene	U		0.000211	0.00100	1	06/08/2022 21:56	WG1876337
1,2,3-Trimethylbenzene	U		0.000287	0.00100	1	06/08/2022 21:56	WG1876337
Vinyl chloride	U		0.000226	0.00100	1	06/08/2022 21:56	WG1876337
1,3,5-Trimethylbenzene	U		0.000266	0.00100	1	06/08/2022 21:56	WG1876337
Xylenes, Total	U		0.000500	0.00300	1	06/08/2022 21:56	WG1876337
(S) Toluene-d8	93.4			75.0-131		06/08/2022 21:56	WG1876337
(S) 4-Bromofluorobenzene	96.4			67.0-138		06/08/2022 21:56	WG1876337
(S) 1,2-Dichloroethane-d4	98.1			70.0-130		06/08/2022 21:56	WG1876337

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3799715-1 06/04/22 09:44

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	%		%	%
Total Solids	0.00100			

¹Cp

²Tc

³Ss

L1498975-04 Original Sample (OS) • Duplicate (DUP)

(OS) L1498975-04 06/04/22 09:44 • (DUP) R3799715-3 06/04/22 09:44

Analyte	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
	%	%		%		%
Total Solids	81.5	81.4	1	0.139		10

⁴Cn

⁵Ds

Laboratory Control Sample (LCS)

(LCS) R3799715-2 06/04/22 09:44

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3799494-3 06/03/22 17:18

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
TPHGAK C6 to C10	U		0.950	2.50
(S) a,a,a-Trifluorotoluene(FID)	93.5			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799494-1 06/03/22 15:59 • (LCSD) R3799494-2 06/03/22 16:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	125	129	131	103	105	60.0-120			1.54	20
(S) a,a,a-Trifluorotoluene(FID)				107	108	60.0-120				

L1499074-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499074-04 06/03/22 20:11 • (MS) R3799494-4 06/03/22 21:31 • (MSD) R3799494-5 06/03/22 21:57

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
TPHGAK C6 to C10	144	U			97.9	98.6	1.15	60.0-120			0.707	30
(S) a,a,a-Trifluorotoluene(FID)					97.6	98.4		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3799546-3 06/04/22 01:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.518	1.25
Acrylonitrile	U		0.0505	0.250
Benzene	U		0.00938	0.0250
Bromobenzene	U		0.00688	0.0250
Bromodichloromethane	U		0.0181	0.0250
Bromoform	U		0.0106	0.0250
Bromomethane	U		0.0293	0.125
n-Butylbenzene	U		0.00645	0.0250
sec-Butylbenzene	U		0.00503	0.0250
tert-Butylbenzene	U		0.00515	0.0250
Carbon tetrachloride	U		0.00620	0.0250
Chlorobenzene	U		0.00480	0.0250
Chlorodibromomethane	U		0.00560	0.0250
Chloroethane	U		0.0250	0.125
Chloroform	U		0.0258	0.125
Chloromethane	U		0.0163	0.0625
2-Chlorotoluene	U		0.00563	0.0250
4-Chlorotoluene	U		0.0173	0.0250
1,2-Dibromo-3-Chloropropane	U		0.0475	0.125
1,2-Dibromoethane	U		0.00625	0.0250
Dibromomethane	U		0.00875	0.0250
1,2-Dichlorobenzene	U		0.0106	0.0250
1,3-Dichlorobenzene	U		0.0150	0.0250
1,4-Dichlorobenzene	U		0.0208	0.0250
Dichlorodifluoromethane	U		0.00718	0.125
1,1-Dichloroethane	U		0.00670	0.0250
1,2-Dichloroethane	U		0.0113	0.0250
1,1-Dichloroethene	U		0.00888	0.0250
cis-1,2-Dichloroethene	U		0.0119	0.0250
trans-1,2-Dichloroethene	U		0.0125	0.0250
1,2-Dichloropropane	U		0.00410	0.0250
1,1-Dichloropropene	U		0.00938	0.0250
1,3-Dichloropropane	U		0.00563	0.0250
cis-1,3-Dichloropropene	U		0.0106	0.0250
trans-1,3-Dichloropropene	U		0.0169	0.0250
2,2-Dichloropropane	U		0.00938	0.0250
Di-isopropyl ether	U		0.00553	0.0250
Ethylbenzene	U		0.00750	0.0250
Hexachloro-1,3-butadiene	U		0.00855	0.0250
Isopropylbenzene	U		0.0106	0.0250

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Method Blank (MB)

(MB) R3799546-3 06/04/22 01:05

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00510	0.0250
2-Butanone (MEK)	U		0.117	0.250
Methylene Chloride	U		0.0250	0.125
4-Methyl-2-pentanone (MIBK)	U		0.0238	0.250
Methyl tert-butyl ether	U		0.00875	0.0250
Naphthalene	U		0.125	0.125
n-Propylbenzene	U		0.00515	0.0250
Styrene	U		0.00558	0.0250
1,1,1,2-Tetrachloroethane	U		0.00740	0.0250
1,1,2,2-Tetrachloroethane	U		0.00578	0.0250
1,1,2-Trichlorotrifluoroethane	U		0.0107	0.0250
Tetrachloroethene	U		0.00813	0.0250
Toluene	U		0.0308	0.125
1,2,3-Trichlorobenzene	U		0.00765	0.0250
1,2,4-Trichlorobenzene	U		0.00970	0.0250
1,1,1-Trichloroethane	U		0.00925	0.0250
1,1,2-Trichloroethane	U		0.0106	0.0250
Trichloroethene	U		0.00500	0.0250
Trichlorofluoromethane	U		0.00890	0.125
1,2,3-Trichloropropane	U		0.00610	0.0625
1,2,4-Trimethylbenzene	U		0.00528	0.0250
1,2,3-Trimethylbenzene	U		0.00718	0.0250
Vinyl chloride	U		0.00565	0.0250
1,3,5-Trimethylbenzene	U		0.00665	0.0250
Xylenes, Total	U		0.0125	0.0750
(S) Toluene-d8	106			75.0-131
(S) 4-Bromofluorobenzene	88.9			67.0-138
(S) 1,2-Dichloroethane-d4	99.5			70.0-130

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799546-1 06/03/22 23:47 • (LCSD) R3799546-2 06/04/22 00:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.0250	0.0370	0.0465	148	186	10.0-160		J4	22.8	31
Acrylonitrile	0.0250	0.0338	0.0367	135	147	45.0-153			8.23	22
Benzene	0.00500	0.00483	0.00510	96.6	102	70.0-123			5.44	20
Bromobenzene	0.00500	0.00513	0.00525	103	105	73.0-121			2.31	20
Bromodichloromethane	0.00500	0.00504	0.00548	101	110	73.0-121			8.37	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799546-1 06/03/22 23:47 • (LCSD) R3799546-2 06/04/22 00:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.00500	0.00513	0.00525	103	105	64.0-132			2.31	20
Bromomethane	0.00500	0.00377	0.00406	75.4	81.2	56.0-147			7.41	20
n-Butylbenzene	0.00500	0.00440	0.00481	88.0	96.2	68.0-135			8.90	20
sec-Butylbenzene	0.00500	0.00444	0.00469	88.8	93.8	74.0-130			5.48	20
tert-Butylbenzene	0.00500	0.00451	0.00466	90.2	93.2	75.0-127			3.27	20
Carbon tetrachloride	0.00500	0.00521	0.00563	104	113	66.0-128			7.75	20
Chlorobenzene	0.00500	0.00465	0.00498	93.0	99.6	76.0-128			6.85	20
Chlorodibromomethane	0.00500	0.00522	0.00523	104	105	74.0-127			0.191	20
Chloroethane	0.00500	0.00495	0.00539	99.0	108	61.0-134			8.51	20
Chloroform	0.00500	0.00436	0.00476	87.2	95.2	72.0-123			8.77	20
Chloromethane	0.00500	0.00477	0.00509	95.4	102	51.0-138			6.49	20
2-Chlorotoluene	0.00500	0.00523	0.00519	105	104	75.0-124			0.768	20
4-Chlorotoluene	0.00500	0.00517	0.00534	103	107	75.0-124			3.24	20
1,2-Dibromo-3-Chloropropane	0.00500	0.00523	0.00522	105	104	59.0-130			0.191	20
1,2-Dibromoethane	0.00500	0.00516	0.00513	103	103	74.0-128			0.583	20
Dibromomethane	0.00500	0.00497	0.00520	99.4	104	75.0-122			4.52	20
1,2-Dichlorobenzene	0.00500	0.00465	0.00478	93.0	95.6	76.0-124			2.76	20
1,3-Dichlorobenzene	0.00500	0.00490	0.00514	98.0	103	76.0-125			4.78	20
1,4-Dichlorobenzene	0.00500	0.00451	0.00460	90.2	92.0	77.0-121			1.98	20
Dichlorodifluoromethane	0.00500	0.00403	0.00476	80.6	95.2	43.0-156			16.6	20
1,1-Dichloroethane	0.00500	0.00531	0.00560	106	112	70.0-127			5.32	20
1,2-Dichloroethane	0.00500	0.00524	0.00519	105	104	65.0-131			0.959	20
1,1-Dichloroethene	0.00500	0.00526	0.00582	105	116	65.0-131			10.1	20
cis-1,2-Dichloroethene	0.00500	0.00437	0.00504	87.4	101	73.0-125			14.2	20
trans-1,2-Dichloroethene	0.00500	0.00445	0.00480	89.0	96.0	71.0-125			7.57	20
1,2-Dichloropropane	0.00500	0.00540	0.00593	108	119	74.0-125			9.36	20
1,1-Dichloropropene	0.00500	0.00493	0.00515	98.6	103	73.0-125			4.37	20
1,3-Dichloropropane	0.00500	0.00516	0.00511	103	102	80.0-125			0.974	20
cis-1,3-Dichloropropene	0.00500	0.00494	0.00523	98.8	105	76.0-127			5.70	20
trans-1,3-Dichloropropene	0.00500	0.00492	0.00515	98.4	103	73.0-127			4.57	20
2,2-Dichloropropane	0.00500	0.00457	0.00470	91.4	94.0	59.0-135			2.80	20
Di-isopropyl ether	0.00500	0.00500	0.00521	100	104	60.0-136			4.11	20
Ethylbenzene	0.00500	0.00465	0.00496	93.0	99.2	74.0-126			6.45	20
Hexachloro-1,3-butadiene	0.00500	0.00434	0.00482	86.8	96.4	57.0-150			10.5	20
Isopropylbenzene	0.00500	0.00412	0.00437	82.4	87.4	72.0-127			5.89	20
p-Isopropyltoluene	0.00500	0.00465	0.00489	93.0	97.8	72.0-133			5.03	20
2-Butanone (MEK)	0.0250	0.0332	0.0365	133	146	30.0-160			9.47	24
Methylene Chloride	0.00500	0.00480	0.00508	96.0	102	68.0-123			5.67	20
4-Methyl-2-pentanone (MIBK)	0.0250	0.0301	0.0313	120	125	56.0-143			3.91	20
Methyl tert-butyl ether	0.00500	0.00412	0.00462	82.4	92.4	66.0-132			11.4	20

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3799546-1 06/03/22 23:47 • (LCSD) R3799546-2 06/04/22 00:07

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	<u>LCS Qualifier</u>	<u>LCSD Qualifier</u>	RPD %	RPD Limits %
Naphthalene	0.00500	0.00380	0.00402	76.0	80.4	59.0-130			5.63	20
n-Propylbenzene	0.00500	0.00495	0.00522	99.0	104	74.0-126			5.31	20
Styrene	0.00500	0.00438	0.00449	87.6	89.8	72.0-127			2.48	20
1,1,1,2-Tetrachloroethane	0.00500	0.00469	0.00490	93.8	98.0	74.0-129			4.38	20
1,1,2,2-Tetrachloroethane	0.00500	0.00503	0.00502	101	100	68.0-128			0.199	20
1,1,2-Trichlorotrifluoroethane	0.00500	0.00447	0.00473	89.4	94.6	61.0-139			5.65	20
Tetrachloroethene	0.00500	0.00487	0.00521	97.4	104	70.0-136			6.75	20
Toluene	0.00500	0.00465	0.00474	93.0	94.8	75.0-121			1.92	20
1,2,3-Trichlorobenzene	0.00500	0.00409	0.00415	81.8	83.0	59.0-139			1.46	20
1,2,4-Trichlorobenzene	0.00500	0.00399	0.00415	79.8	83.0	62.0-137			3.93	20
1,1,1-Trichloroethane	0.00500	0.00508	0.00552	102	110	69.0-126			8.30	20
1,1,2-Trichloroethane	0.00500	0.00515	0.00515	103	103	78.0-123			0.000	20
Trichloroethene	0.00500	0.00536	0.00571	107	114	76.0-126			6.32	20
Trichlorofluoromethane	0.00500	0.00404	0.00427	80.8	85.4	61.0-142			5.54	20
1,2,3-Trichloropropane	0.00500	0.00540	0.00565	108	113	67.0-129			4.52	20
1,2,4-Trimethylbenzene	0.00500	0.00444	0.00476	88.8	95.2	70.0-126			6.96	20
1,2,3-Trimethylbenzene	0.00500	0.00459	0.00469	91.8	93.8	74.0-124			2.16	20
Vinyl chloride	0.00500	0.00461	0.00490	92.2	98.0	63.0-134			6.10	20
1,3,5-Trimethylbenzene	0.00500	0.00430	0.00474	86.0	94.8	73.0-127			9.73	20
Xylenes, Total	0.0150	0.0130	0.0136	86.7	90.7	72.0-127			4.51	20
(S) Toluene-d8				103	102	75.0-131				
(S) 4-Bromofluorobenzene				94.5	91.4	67.0-138				
(S) 1,2-Dichloroethane-d4				112	112	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3801105-3 06/08/22 12:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0207	0.0500
Acrylonitrile	U		0.00202	0.0100
Benzene	U		0.000375	0.00100
Bromobenzene	U		0.000275	0.00100
Bromodichloromethane	U		0.000725	0.00100
Bromoform	U		0.000424	0.00100
Bromomethane	U		0.00117	0.00500
n-Butylbenzene	U		0.000258	0.00100
sec-Butylbenzene	U		0.000201	0.00100
tert-Butylbenzene	U		0.000206	0.00100
Carbon tetrachloride	U		0.000248	0.00100
Chlorobenzene	U		0.000192	0.00100
Chlorodibromomethane	U		0.000224	0.00100
Chloroethane	U		0.00100	0.00500
Chloroform	U		0.00103	0.00500
Chloromethane	U		0.000650	0.00250
2-Chlorotoluene	U		0.000225	0.00100
4-Chlorotoluene	U		0.000691	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00190	0.00500
1,2-Dibromoethane	U		0.000250	0.00100
Dibromomethane	U		0.000350	0.00100
1,2-Dichlorobenzene	U		0.000425	0.00100
1,3-Dichlorobenzene	U		0.000600	0.00100
1,4-Dichlorobenzene	U		0.000830	0.00100
Dichlorodifluoromethane	U		0.000287	0.00500
1,1-Dichloroethane	U		0.000268	0.00100
1,2-Dichloroethane	U		0.000450	0.00100
1,1-Dichloroethene	U		0.000355	0.00100
cis-1,2-Dichloroethene	U		0.000475	0.00100
trans-1,2-Dichloroethene	U		0.000500	0.00100
1,2-Dichloropropane	U		0.000164	0.00100
1,1-Dichloropropene	U		0.000375	0.00100
1,3-Dichloropropane	U		0.000225	0.00100
cis-1,3-Dichloropropene	U		0.000425	0.00100
trans-1,3-Dichloropropene	U		0.000675	0.00100
2,2-Dichloropropane	U		0.000375	0.00100
Di-isopropyl ether	U		0.000221	0.00100
Ethylbenzene	U		0.000300	0.00100
Hexachloro-1,3-butadiene	U		0.000342	0.00100
Isopropylbenzene	U		0.000425	0.00100

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Method Blank (MB)

(MB) R3801105-3 06/08/22 12:43

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.000204	0.00100
2-Butanone (MEK)	U		0.00468	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.000950	0.0100
Methyl tert-butyl ether	U		0.000350	0.00100
Naphthalene	U		0.00498	0.00500
n-Propylbenzene	U		0.000206	0.00100
Styrene	U		0.000223	0.00100
1,1,1,2-Tetrachloroethane	U		0.000296	0.00100
1,1,2,2-Tetrachloroethane	U		0.000231	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000426	0.00100
Tetrachloroethene	U		0.000325	0.00100
Toluene	U		0.00123	0.00500
1,2,3-Trichlorobenzene	U		0.000306	0.00100
1,2,4-Trichlorobenzene	U		0.000388	0.00100
1,1,1-Trichloroethane	U		0.000370	0.00100
1,1,2-Trichloroethane	U		0.000425	0.00100
Trichloroethene	U		0.000200	0.00100
Trichlorofluoromethane	U		0.000356	0.00500
1,2,3-Trichloropropane	U		0.000244	0.00250
1,2,4-Trimethylbenzene	U		0.000211	0.00100
1,2,3-Trimethylbenzene	U		0.000287	0.00100
Vinyl chloride	U		0.000226	0.00100
1,3,5-Trimethylbenzene	U		0.000266	0.00100
Xylenes, Total	U		0.000500	0.00300
(S) Toluene-d8	94.9			75.0-131
(S) 4-Bromofluorobenzene	96.2			67.0-138
(S) 1,2-Dichloroethane-d4	102			70.0-130

1 Cp
2 Tc
3 Ss
4 Cn
5 Ds
6 Sr
7 Qc
8 Gl
9 Al
10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3801105-1 06/08/22 11:16 • (LCSD) R3801105-2 06/08/22 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.162	0.177	130	142	10.0-160			8.85	31
Acrylonitrile	0.125	0.153	0.168	122	134	45.0-153			9.35	22
Benzene	0.0250	0.0222	0.0244	88.8	97.6	70.0-123			9.44	20
Bromobenzene	0.0250	0.0242	0.0259	96.8	104	73.0-121			6.79	20
Bromodichloromethane	0.0250	0.0267	0.0291	107	116	73.0-121			8.60	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3801105-1 06/08/22 11:16 • (LCSD) R3801105-2 06/08/22 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.0250	0.0299	0.0337	120	135	64.0-132		J4	11.9	20
Bromomethane	0.0250	0.0229	0.0261	91.6	104	56.0-147			13.1	20
n-Butylbenzene	0.0250	0.0223	0.0241	89.2	96.4	68.0-135			7.76	20
sec-Butylbenzene	0.0250	0.0209	0.0226	83.6	90.4	74.0-130			7.82	20
tert-Butylbenzene	0.0250	0.0211	0.0226	84.4	90.4	75.0-127			6.86	20
Carbon tetrachloride	0.0250	0.0211	0.0236	84.4	94.4	66.0-128			11.2	20
Chlorobenzene	0.0250	0.0232	0.0249	92.8	99.6	76.0-128			7.07	20
Chlorodibromomethane	0.0250	0.0282	0.0306	113	122	74.0-127			8.16	20
Chloroethane	0.0250	0.0222	0.0240	88.8	96.0	61.0-134			7.79	20
Chloroform	0.0250	0.0237	0.0261	94.8	104	72.0-123			9.64	20
Chloromethane	0.0250	0.0199	0.0215	79.6	86.0	51.0-138			7.73	20
2-Chlorotoluene	0.0250	0.0233	0.0245	93.2	98.0	75.0-124			5.02	20
4-Chlorotoluene	0.0250	0.0237	0.0254	94.8	102	75.0-124			6.92	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0314	0.0351	126	140	59.0-130		J4	11.1	20
1,2-Dibromoethane	0.0250	0.0301	0.0327	120	131	74.0-128		J4	8.28	20
Dibromomethane	0.0250	0.0294	0.0318	118	127	75.0-122		J4	7.84	20
1,2-Dichlorobenzene	0.0250	0.0262	0.0278	105	111	76.0-124			5.93	20
1,3-Dichlorobenzene	0.0250	0.0250	0.0269	100	108	76.0-125			7.32	20
1,4-Dichlorobenzene	0.0250	0.0253	0.0270	101	108	77.0-121			6.50	20
Dichlorodifluoromethane	0.0250	0.0199	0.0218	79.6	87.2	43.0-156			9.11	20
1,1-Dichloroethane	0.0250	0.0229	0.0251	91.6	100	70.0-127			9.17	20
1,2-Dichloroethane	0.0250	0.0275	0.0299	110	120	65.0-131			8.36	20
1,1-Dichloroethene	0.0250	0.0205	0.0226	82.0	90.4	65.0-131			9.74	20
cis-1,2-Dichloroethene	0.0250	0.0237	0.0262	94.8	105	73.0-125			10.0	20
trans-1,2-Dichloroethene	0.0250	0.0208	0.0233	83.2	93.2	71.0-125			11.3	20
1,2-Dichloropropane	0.0250	0.0257	0.0277	103	111	74.0-125			7.49	20
1,1-Dichloropropene	0.0250	0.0206	0.0226	82.4	90.4	73.0-125			9.26	20
1,3-Dichloropropane	0.0250	0.0287	0.0305	115	122	80.0-125			6.08	20
cis-1,3-Dichloropropene	0.0250	0.0272	0.0294	109	118	76.0-127			7.77	20
trans-1,3-Dichloropropene	0.0250	0.0288	0.0310	115	124	73.0-127			7.36	20
2,2-Dichloropropane	0.0250	0.0202	0.0234	80.8	93.6	59.0-135			14.7	20
Di-isopropyl ether	0.0250	0.0251	0.0274	100	110	60.0-136			8.76	20
Ethylbenzene	0.0250	0.0213	0.0233	85.2	93.2	74.0-126			8.97	20
Hexachloro-1,3-butadiene	0.0250	0.0207	0.0229	82.8	91.6	57.0-150			10.1	20
Isopropylbenzene	0.0250	0.0216	0.0238	86.4	95.2	72.0-127			9.69	20
p-Isopropyltoluene	0.0250	0.0220	0.0239	88.0	95.6	72.0-133			8.28	20
2-Butanone (MEK)	0.125	0.149	0.162	119	130	30.0-160			8.36	24
Methylene Chloride	0.0250	0.0236	0.0260	94.4	104	68.0-123			9.68	20
4-Methyl-2-pentanone (MIBK)	0.125	0.163	0.172	130	138	56.0-143			5.37	20
Methyl tert-butyl ether	0.0250	0.0295	0.0318	118	127	66.0-132			7.50	20

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3801105-1 06/08/22 11:16 • (LCSD) R3801105-2 06/08/22 11:38

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.0250	0.0301	0.0333	120	133	59.0-130		J4	10.1	20
n-Propylbenzene	0.0250	0.0215	0.0232	86.0	92.8	74.0-126			7.61	20
Styrene	0.0250	0.0254	0.0273	102	109	72.0-127			7.21	20
1,1,1,2-Tetrachloroethane	0.0250	0.0251	0.0270	100	108	74.0-129			7.29	20
1,1,2,2-Tetrachloroethane	0.0250	0.0302	0.0315	121	126	68.0-128			4.21	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0198	0.0222	79.2	88.8	61.0-139			11.4	20
Tetrachloroethene	0.0250	0.0207	0.0227	82.8	90.8	70.0-136			9.22	20
Toluene	0.0250	0.0211	0.0228	84.4	91.2	75.0-121			7.74	20
1,2,3-Trichlorobenzene	0.0250	0.0289	0.0316	116	126	59.0-139			8.93	20
1,2,4-Trichlorobenzene	0.0250	0.0301	0.0321	120	128	62.0-137			6.43	20
1,1,1-Trichloroethane	0.0250	0.0213	0.0237	85.2	94.8	69.0-126			10.7	20
1,1,2-Trichloroethane	0.0250	0.0286	0.0309	114	124	78.0-123		J4	7.73	20
Trichloroethene	0.0250	0.0216	0.0241	86.4	96.4	76.0-126			10.9	20
Trichlorofluoromethane	0.0250	0.0212	0.0243	84.8	97.2	61.0-142			13.6	20
1,2,3-Trichloropropane	0.0250	0.0308	0.0325	123	130	67.0-129		J4	5.37	20
1,2,4-Trimethylbenzene	0.0250	0.0228	0.0241	91.2	96.4	70.0-126			5.54	20
1,2,3-Trimethylbenzene	0.0250	0.0237	0.0254	94.8	102	74.0-124			6.92	20
Vinyl chloride	0.0250	0.0213	0.0233	85.2	93.2	63.0-134			8.97	20
1,3,5-Trimethylbenzene	0.0250	0.0220	0.0236	88.0	94.4	73.0-127			7.02	20
Xylenes, Total	0.0750	0.0662	0.0724	88.3	96.5	72.0-127			8.95	20
(S) Toluene-d8				93.1	92.2	75.0-131				
(S) 4-Bromofluorobenzene				99.2	98.4	67.0-138				
(S) 1,2-Dichloroethane-d4				98.1	98.4	70.0-130				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3800456-1 06/06/22 16:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	97.8			60.0-120
(S) n-Triacontane d62	89.1			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800456-2 06/06/22 17:08 • (LCSD) R3800456-3 06/06/22 17:21

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	196	196	98.0	98.0	75.0-125			0.000	20
(S) o-Terphenyl				97.0	97.0	60.0-120				
(S) n-Triacontane d62				90.0	90.3	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800456-4 06/06/22 17:34 • (LCSD) R3800456-5 06/06/22 17:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	139	132	69.5	66.0	60.0-120			5.17	20
(S) o-Terphenyl				95.1	93.6	60.0-120				
(S) n-Triacontane d62				91.3	92.5	60.0-120				

L1498453-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498453-08 06/06/22 22:41 • (MS) R3800456-6 06/06/22 22:53 • (MSD) R3800456-7 06/06/22 23:06

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	223	U	275	362	123	161	1	75.0-125		J3 J5	27.4	20
(S) o-Terphenyl					102	100		50.0-150				
(S) n-Triacontane d62					89.2	83.2		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1498453-08 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1498453-08 06/06/22 22:41 • (MS) R3800456-8 06/06/22 23:19 • (MSD) R3800456-9 06/06/22 23:32

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	213	320	388	344	31.9	10.6	1	60.0-120	<u>J6</u>	<u>J6</u>	12.1	20
(S) o-Terphenyl					102	99.2		50.0-150				
(S) n-Triacontane d62					92.5	88.4		50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3800458-1 06/06/22 18:00

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
<i>(S) o-Terphenyl</i>	90.3			60.0-120
<i>(S) n-Triacontane d62</i>	84.4			60.0-120

¹ Cp

² Tc

³ Ss

⁴ Cn

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800458-2 06/06/22 18:12 • (LCSD) R3800458-3 06/06/22 18:25

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	193	191	96.5	95.5	75.0-125			1.04	20
<i>(S) o-Terphenyl</i>				94.0	94.0	60.0-120				
<i>(S) n-Triacontane d62</i>				88.2	87.3	60.0-120				

⁵ Ds

⁶ Sr

⁷ Qc

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800458-4 06/06/22 18:38 • (LCSD) R3800458-5 06/06/22 18:51

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	126	131	63.0	65.5	60.0-120			3.89	20
<i>(S) o-Terphenyl</i>				86.1	98.5	60.0-120				
<i>(S) n-Triacontane d62</i>				89.7	94.8	60.0-120				

⁸ Gl

⁹ Al

L1501035-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501035-10 06/07/22 03:47 • (MS) R3800458-6 06/07/22 03:59 • (MSD) R3800458-7 06/07/22 04:12

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK102 DRO C10-C25	253	U	616	464	244	184	1	75.0-125	J5	J3 J5	28.1	20
<i>(S) o-Terphenyl</i>					92.5	66.7		50.0-150				
<i>(S) n-Triacontane d62</i>					82.3	66.9		50.0-150				

¹⁰ Sc

L1501035-10 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1501035-10 06/07/22 03:47 • (MS) R3800458-8 06/07/22 04:25 • (MSD) R3800458-9 06/07/22 04:38

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK103 RRO C25-C36	253	U	122	164	48.2	65.0	1	60.0-120	<u>J6</u>	<u>J3</u>	29.7	20
(S) o-Terphenyl					76.4	79.4		50.0-150				
(S) n-Triacontane d62					72.7	78.0		50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3800758-5 06/08/22 08:16

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
AK102 DRO C10-C25	U		86.6	200
AK103 RRO C25-C36	U		66.6	200
(S) o-Terphenyl	96.6			60.0-120
(S) n-Triacontane d62	91.3			60.0-120

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800758-1 06/08/22 06:09 • (LCSD) R3800758-2 06/08/22 06:22

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK102 DRO C10-C25	200	207	194	104	97.0	75.0-125			6.48	20
(S) o-Terphenyl				100	95.5	60.0-120				
(S) n-Triacontane d62				92.7	89.1	60.0-120				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3800758-3 06/08/22 06:34 • (LCSD) R3800758-4 06/08/22 06:47

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
AK103 RRO C25-C36	200	157	158	78.5	79.0	60.0-120			0.635	20
(S) o-Terphenyl				82.8	92.9	60.0-120				
(S) n-Triacontane d62				92.5	87.9	60.0-120				

L1499074-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499074-01 06/08/22 17:42 • (MS) R3800758-6 06/08/22 17:54 • (MSD) R3800758-7 06/08/22 18:07

Analyte	Spike Amount (dry)	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
AK103 RRO C25-C36	210	153	295	232	67.5	37.5	1	60.0-120		J3 J6	24.0	20
(S) o-Terphenyl					116	79.0		50.0-150				
(S) n-Triacontane d62					88.5	79.8		50.0-150				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

L1499074-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499074-01 06/08/22 17:42 • (MS) R3800758-8 06/08/22 18:20 • (MSD) R3800758-9 06/08/22 18:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
AK102 DRO C10-C25	210	U	194	227	92.0	108	1	75.0-125			16.0	20
<i>(S) o-Terphenyl</i>					85.0	98.1		50.0-150				
<i>(S) n-Triacontane d62</i>					80.1	90.4		50.0-150				

- 1 Cp
- 2 Tc
- 3 Ss
- 4 Cn
- 5 Ds
- 6 Sr
- 7 Qc
- 8 Gl
- 9 Al
- 10 Sc

Method Blank (MB)

(MB) R3801806-2 06/09/22 07:29

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	61.0			14.0-149
(S) 2-Fluorobiphenyl	60.1			34.0-125
(S) p-Terphenyl-d14	80.2			23.0-120

¹Cp

²Tc

³Ss

⁴Cn

⁵Ds

⁶Sr

⁷Qc

⁸Gl

⁹Al

¹⁰Sc

Laboratory Control Sample (LCS)

(LCS) R3801806-1 06/09/22 07:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0402	50.3	50.0-126	
Acenaphthene	0.0800	0.0442	55.3	50.0-120	
Acenaphthylene	0.0800	0.0439	54.9	50.0-120	
Benzo(a)anthracene	0.0800	0.0404	50.5	45.0-120	
Benzo(a)pyrene	0.0800	0.0410	51.3	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0443	55.4	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0479	59.9	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0443	55.4	49.0-125	
Chrysene	0.0800	0.0465	58.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0471	58.9	47.0-125	
Fluoranthene	0.0800	0.0451	56.4	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3801806-1 06/09/22 07:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	<u>LCS Qualifier</u>
Fluorene	0.0800	0.0443	55.4	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0459	57.4	46.0-125	
Naphthalene	0.0800	0.0473	59.1	50.0-120	
Phenanthrene	0.0800	0.0438	54.8	47.0-120	
Pyrene	0.0800	0.0449	56.1	43.0-123	
1-Methylnaphthalene	0.0800	0.0467	58.4	51.0-121	
2-Methylnaphthalene	0.0800	0.0423	52.9	50.0-120	
2-Chloronaphthalene	0.0800	0.0409	51.1	50.0-120	
<i>(S) Nitrobenzene-d5</i>			57.9	14.0-149	
<i>(S) 2-Fluorobiphenyl</i>			60.1	34.0-125	
<i>(S) p-Terphenyl-d14</i>			76.1	23.0-120	

L1499134-04 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499134-04 06/09/22 11:48 • (MS) R3801806-3 06/09/22 12:08 • (MSD) R3801806-4 06/09/22 12:28

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	<u>MS Qualifier</u>	<u>MSD Qualifier</u>	RPD %	RPD Limits %
Anthracene	0.0848	U	0.0472	0.0477	55.6	56.3	1	10.0-145			1.12	30
Acenaphthene	0.0848	U	0.0511	0.0514	60.3	60.6	1	14.0-127			0.620	27
Acenaphthylene	0.0848	U	0.0512	0.0516	60.4	60.9	1	21.0-124			0.825	25
Benzo(a)anthracene	0.0848	U	0.0473	0.0478	55.8	56.4	1	10.0-139			1.11	30
Benzo(a)pyrene	0.0848	U	0.0475	0.0490	56.0	57.8	1	10.0-141			3.08	31
Benzo(b)fluoranthene	0.0848	U	0.0486	0.0519	57.3	61.1	1	10.0-140			6.55	36
Benzo(g,h,i)perylene	0.0848	U	0.0527	0.0542	62.1	63.9	1	10.0-140			2.78	33
Benzo(k)fluoranthene	0.0848	U	0.0492	0.0501	58.0	59.0	1	10.0-137			1.71	31
Chrysene	0.0848	U	0.0523	0.0531	61.6	62.6	1	10.0-145			1.61	30
Dibenz(a,h)anthracene	0.0848	U	0.0516	0.0533	60.9	62.9	1	10.0-132			3.23	31
Fluoranthene	0.0848	U	0.0531	0.0527	62.6	62.1	1	10.0-153			0.802	33
Fluorene	0.0848	U	0.0508	0.0513	59.9	60.5	1	11.0-130			1.04	29
Indeno(1,2,3-cd)pyrene	0.0848	U	0.0491	0.0496	57.9	58.5	1	10.0-137			1.07	32
Naphthalene	0.0848	U	0.0544	0.0548	64.1	64.6	1	10.0-135			0.777	27
Phenanthrene	0.0848	U	0.0506	0.0506	59.6	59.6	1	10.0-144			0.000	31
Pyrene	0.0848	U	0.0518	0.0530	61.0	62.5	1	10.0-148			2.43	35
1-Methylnaphthalene	0.0848	U	0.0548	0.0551	64.6	65.0	1	10.0-142			0.579	28
2-Methylnaphthalene	0.0848	U	0.0484	0.0490	57.0	57.8	1	10.0-137			1.31	28
2-Chloronaphthalene	0.0848	U	0.0461	0.0469	54.4	55.3	1	29.0-120			1.60	24
<i>(S) Nitrobenzene-d5</i>					64.4	69.7		14.0-149				
<i>(S) 2-Fluorobiphenyl</i>					63.7	67.5		34.0-125				
<i>(S) p-Terphenyl-d14</i>					80.7	86.0		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

Method Blank (MB)

(MB) R3801696-2 06/09/22 16:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Anthracene	U		0.00230	0.00600
Acenaphthene	U		0.00209	0.00600
Acenaphthylene	U		0.00216	0.00600
Benzo(a)anthracene	U		0.00173	0.00600
Benzo(a)pyrene	U		0.00179	0.00600
Benzo(b)fluoranthene	U		0.00153	0.00600
Benzo(g,h,i)perylene	U		0.00177	0.00600
Benzo(k)fluoranthene	U		0.00215	0.00600
Chrysene	U		0.00232	0.00600
Dibenz(a,h)anthracene	U		0.00172	0.00600
Fluoranthene	U		0.00227	0.00600
Fluorene	U		0.00205	0.00600
Indeno(1,2,3-cd)pyrene	U		0.00181	0.00600
Naphthalene	U		0.00408	0.0200
Phenanthrene	U		0.00231	0.00600
Pyrene	U		0.00200	0.00600
1-Methylnaphthalene	U		0.00449	0.0200
2-Methylnaphthalene	U		0.00427	0.0200
2-Chloronaphthalene	U		0.00466	0.0200
(S) Nitrobenzene-d5	93.4			14.0-149
(S) 2-Fluorobiphenyl	90.0			34.0-125
(S) p-Terphenyl-d14	108			23.0-120

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Laboratory Control Sample (LCS)

(LCS) R3801696-1 06/09/22 16:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Anthracene	0.0800	0.0631	78.9	50.0-126	
Acenaphthene	0.0800	0.0649	81.1	50.0-120	
Acenaphthylene	0.0800	0.0656	82.0	50.0-120	
Benzo(a)anthracene	0.0800	0.0625	78.1	45.0-120	
Benzo(a)pyrene	0.0800	0.0537	67.1	42.0-120	
Benzo(b)fluoranthene	0.0800	0.0652	81.5	42.0-121	
Benzo(g,h,i)perylene	0.0800	0.0633	79.1	45.0-125	
Benzo(k)fluoranthene	0.0800	0.0626	78.3	49.0-125	
Chrysene	0.0800	0.0641	80.1	49.0-122	
Dibenz(a,h)anthracene	0.0800	0.0637	79.6	47.0-125	
Fluoranthene	0.0800	0.0629	78.6	49.0-129	

Laboratory Control Sample (LCS)

(LCS) R3801696-1 06/09/22 16:31

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Fluorene	0.0800	0.0680	85.0	49.0-120	
Indeno(1,2,3-cd)pyrene	0.0800	0.0625	78.1	46.0-125	
Naphthalene	0.0800	0.0625	78.1	50.0-120	
Phenanthrene	0.0800	0.0631	78.9	47.0-120	
Pyrene	0.0800	0.0614	76.8	43.0-123	
1-Methylnaphthalene	0.0800	0.0652	81.5	51.0-121	
2-Methylnaphthalene	0.0800	0.0625	78.1	50.0-120	
2-Chloronaphthalene	0.0800	0.0650	81.3	50.0-120	
(S) Nitrobenzene-d5			88.4	14.0-149	
(S) 2-Fluorobiphenyl			86.9	34.0-125	
(S) p-Terphenyl-d14			101	23.0-120	

L1499009-19 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1499009-19 06/09/22 23:46 • (MS) R3801696-3 06/10/22 00:03 • (MSD) R3801696-4 06/10/22 00:21

Analyte	Spike Amount (dry) mg/kg	Original Result (dry)	MS Result (dry)	MSD Result (dry)	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Anthracene	0.0752	U	0.0704	0.0641	78.7	68.4	1	10.0-145			9.37	30
Acenaphthene	0.0752	U	0.0718	0.0654	80.3	69.8	1	14.0-127			9.36	27
Acenaphthylene	0.0752	U	0.0755	0.0692	84.4	73.9	1	21.0-124			8.71	25
Benzo(a)anthracene	0.0752	U	0.0663	0.0619	74.1	66.0	1	10.0-139			6.87	30
Benzo(a)pyrene	0.0752	U	0.0639	0.0590	71.4	62.9	1	10.0-141			7.94	31
Benzo(b)fluoranthene	0.0752	U	0.0597	0.0553	66.8	59.0	1	10.0-140			7.65	36
Benzo(g,h,i)perylene	0.0752	U	0.0630	0.0586	70.5	62.6	1	10.0-140			7.23	33
Benzo(k)fluoranthene	0.0752	U	0.0610	0.0578	68.2	61.7	1	10.0-137			5.41	31
Chrysene	0.0752	U	0.0659	0.0624	73.7	66.6	1	10.0-145			5.38	30
Dibenz(a,h)anthracene	0.0752	U	0.0641	0.0609	71.7	65.0	1	10.0-132			5.14	31
Fluoranthene	0.0752	U	0.0674	0.0627	75.4	66.9	1	10.0-153			7.31	33
Fluorene	0.0752	U	0.0736	0.0683	82.3	72.8	1	11.0-130			7.54	29
Indeno(1,2,3-cd)pyrene	0.0752	U	0.0654	0.0605	73.1	64.6	1	10.0-137			7.74	32
Naphthalene	0.0752	U	0.0703	0.0667	78.6	71.2	1	10.0-135			5.21	27
Phenanthrene	0.0752	U	0.0677	0.0619	75.7	66.0	1	10.0-144			9.00	31
Pyrene	0.0752	U	0.0635	0.0584	71.0	62.3	1	10.0-148			8.39	35
1-Methylnaphthalene	0.0752	U	0.0735	0.0686	82.2	73.2	1	10.0-142			6.86	28
2-Methylnaphthalene	0.0752	U	0.0703	0.0652	78.6	69.5	1	10.0-137			7.55	28
2-Chloronaphthalene	0.0752	U	0.0703	0.0664	78.6	70.8	1	29.0-120			5.74	24
(S) Nitrobenzene-d5					88.9	85.6		14.0-149				
(S) 2-Fluorobiphenyl					84.2	80.4		34.0-125				
(S) p-Terphenyl-d14					92.6	85.3		23.0-120				

1 Cp

2 Tc

3 Ss

4 Cn

5 Ds

6 Sr

7 Qc

8 Gl

9 Al

10 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
MDL (dry)	Method Detection Limit.
RDL	Reported Detection Limit.
RDL (dry)	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
C3	The reported concentration is an estimate. The continuing calibration standard associated with this data responded low. Method sensitivity check is acceptable.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.



ACCREDITATIONS & LOCATIONS

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN000032021-1
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico ¹	TN00003
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ³	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,6}	KY90010	South Carolina	84004002
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana	LA018	Texas	T104704245-20-18
Maine	TN00003	Texas ⁵	LAB0152
Maryland	324	Utah	TN000032021-11
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	110033
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	998093910
Montana	CERT0086	Wyoming	A2LA
A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 ⁵	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.

* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace Analytical.

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Ds

⁶ Sr

⁷ Qc

⁸ Gl

⁹ Al

¹⁰ Sc

Company Name/Address:
BGES, Inc. - Anchorage, AK
 1042 E 6th Ave.
 Anchorage, AK 99501

Billing Information:
 Accounts Payable
 1042 E 6th Ave.
 Anchorage, AK 99501

Pres Chk

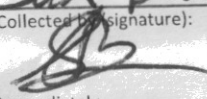
Report to:
BGES

Email To:
 bob@bgesinc.com;jayne@bgesinc.com;carol@b

Project Description:
Homer Airport
 Phone: 907-644-2900

City/State Collected: **Homer / AK**
 Lab Project # **BGESAAK-HOMER**

Please Circle: **AK**
 PT MT CT ET


Collected by (print):
Sam Bundy
 Collected by signature:

 Immediately Packed on Ice N ___ Y **X**

Client Project #
 Site/Facility ID #
 P.O. #
 Quote # **00107286**
 Date Results Needed **Standard**

Lab Project #
 P.O. #
 Quote #
 Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page ___ of ___



PEOPLE ADVANCING SCIENCE

MT JULIET, TN
 12065 Lebanon Rd. Mount Juliet, TN 37122
 Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at: <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

SDG # **4499074**
H100

Table #

Accnum: **BGESAAK**
 Template: **T208548**
 Prelogin: **P922076**
 PM: **546 - Jared Starkey**
 PB: **08513122**
 Shipped Via: **FedEX 2nd Day**

Remarks Sample # (lab only)

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	AK101 60ml/Amb/MeOH/Syr	AK102/103 4ozClr-NoPres	SV8270PAHSIMD 4ozClr-NoPres	TS (%moisture) 4ozClr-NoPres	V8260LLC 40ml/NaHSO4/Syr/MeOH
SBI-1	G	SS	0-2.5'	5/26/22	0022	5	X	X	X	X	X
SBI-3	G	SS	0-2.5'	5/26/22	0026	5	X	X	X	X	X
GAC-2	G	SS	-	5/26/22	0325	5	X	X	X	X	X
SB11-1	G	SS	0-2.5'	5/26/22	0243	5	X	X	X	X	X
SB193	G	SS	0-2.5'	5/25/22	2359	5	X	X	X	X	X
Trip Blank		SS				4	X			X	
		SS									
		SS									
		SS									
		SS									

* Matrix:
 SS - Soil AIR - Air F - Filter
 GW - Groundwater B - Bioassay
 WW - WasteWater
 DW - Drinking Water
 OT - Other

Remarks:

pH _____ Temp _____
 Flow _____ Other _____

Samples returned via:
 UPS FedEx Courier

Tracking # **5755 8090 3213**

Sample Receipt Checklist

COC Seal Present/Intact: NP Y N

COC Signed/Accurate: Y N

Bottles arrive intact: Y N

Correct bottles used: Y N

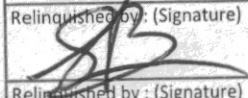
Sufficient volume sent: Y N

If Applicable

VOA Zero Headpace: Y N

Preservation Correct/Checked: Y N

RAD Screen <0.5 mR/hr: Y N

Relinquished by: (Signature)

 Relinquished by: (Signature)
 Relinquished by: (Signature)

Date: **5/26/22**
 Time: **1000**

Received by: (Signature)
 Received by: (Signature)
 Received for lab by: (Signature)
Jac Poin

Trip Blank Received: Yes/No
 HCL/MeOH TBR

Temp: **3.3+0=3.3** °C
 Bottles Received: **25**

Date: **5-27-22** Time: **0845**

If preservation required by Login: Date/Time

Hold:

Condition:
 NCF OK

APPENDIX D
LABORATORY DATA REVIEW CHECKLISTS

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

10610381

Laboratory Report Date:

7/21/2022

CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

10610381

Laboratory Report Date:

7/21/2022

CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 4.8 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

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Laboratory Report Date:

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CS Site Name:

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b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

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A matrix spike/matrix spike duplicate (MS/MSD) pair was prepared and analyzed with the sample batch. The recovery of PFHxS, PFHpS, and PFOS within the MS exceeded the laboratory acceptance limits and the recovery of PFOS within the MSD was below laboratory acceptance limits. Additionally, the recovery of the extracted internal standards 13C2_4:2 FTS, 13C2_6:2 FTS, 13C2_8:2 FTS, d3-MeFOSAA, and d5-EtFOSAA exceeded the laboratory limits within both the MS and MSD. According to the laboratory, these deviations may be due to the presence of the affected analytes in the sample material and/or the heterogeneity of the sample. Therefore, the concentrations of PFHxS, PFHpS, PFOS, 4:2 FTS, 6:2 FTS, 8:2 FTS, n-methylperfluoro-1-octanesulfonamidoacetic acid (MeFOSAA), and EtFOSAA may be biased high in the associated project samples. However, with the exception of PFOS, none of these analytes exceeded ADEC cleanup criteria, and for those analytes, it is our opinion that this QC failure does not affect our interpretation of the data. For PFOS, the sample with the least exceedance (closest concentration to the cleanup criterion) the concentration was approximately 47 percent greater than the cleanup criterion; therefore, it is our opinion that this QC failure does not impact our interpretation of the PFOS data. Regarding the instance where the PFOS recovery in the MSD was below the laboratory's acceptance criteria, there is a possibility that the PFOS concentrations in the associated project samples could be biased low. Paired with the result in the MS (where the PFOS recovery exceeded the laboratory's acceptance criteria), it should be determined that the PFOS in the associated samples may be biased. However, as discussed above, the PFOS concentrations were significantly greater than the ADEC cleanup criterion; therefore, it is our opinion that this bias does not impact the interpretation of the PFOS data. The associated samples (SB1-1, SB32-1, SB192-1, SB191-1, SB193-1, SB189-1, and SB190-1) with positive results for the analytes listed above that may be biased have been qualified with a "J" in Tables 2, 5, and 6 and should be considered estimated quantities.

The laboratory reported that diminished/elevated extracted internal standard (EIS) recoveries were present in samples and continuing calibration verification (CCV) sample results. The use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard. However, because these standards did not meet the laboratory's acceptance criteria, the positively detected data associated with the EIS recovery failures (4:2 FTS, 6:2 FTS, 8:2 FTS, d3MeFOSAA, and d5EtFOSAA) in the affected samples (SB1-3, SB15-1, SB16-1, SB19-1, SB21-1, SB22-1, SB23-1, and SB30-1); PFDA and PFUdA in Sample SB22-1; PFDoA and PFTeDA in Sample SB30-1; 4:2 FTS, 6:2 FTS, 8:2 FTS, and PFTeDA in Sample SB29-1; 4:2 FTS, 6:2 FTS, 8:2 FTS in Samples SB31-1, SB20-1, SB33-1, and SB32-1; PFBA, PFPeA, PFHxA, PFHpA, 6:2 FTS, PFOA, PFNA, PFDA, d3MeFOSAA, PFOSA, d5EtFOSAA, PFUdA, PFDoA, PFTeDA and HFPO-DA in Sample SB10-1; 4:2 FTS, 6:2 FTS, 8:2 FTS, and d5EtFOSAA in Sample SB1-1 and SB191-1; 4:2 FTS, PFHxA, PFHpA, 6:2 FTS, 8:2 FTS, PFOSA, and HFPO-DA in Sample SB192-1; 4:2 FTS, 6:2 FTS, 8:2 FTS, PFOSA, and HFPO-DA in Sample SB193-1; 6:2 FTS, 8:2 FTS, PFOSA, d3MeFOSAA, and d5EtFOSAA in Sample SB180-4; 6:2 FTS, 8:2 FTS, d3MeFOSAA, d5EtFOSAA, and d3-N-MeFOSAA in SB-180-2; and 4:2 FTS, 6:2 FTS, 8:2 FTS, and PFOSA in Sample SB 190-1 are qualified with a "J" in Tables 2, 5, and 6 should be considered estimated concentrations. For all the analytes above except for PFOA, because there are no ADEC cleanup criteria, it is our opinion that this QC failure does not impact the acceptability of the data for their intended use. The percent recovery

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for the PFOA standards were low, indicating the potential for the PFOA project samples to be biased low in Sample SB10-1. However, because the PFOA concentration in SB10-1 exceeded the ADEC cleanup criterion, it is our opinion that this potential low bias does not impact the interpretation of the data.

Samples SB1-1, SB32-1, SB192-1, SB191-1, SB193-1, SB-180-4, SB180-2, and SB190-1 were analyzed with the ending CCV sample recovering low for PFPeS. Low recovery indicates a potential low bias in the quantitation for PFPeS in the associated samples, however, because there is no ADEC cleanup criterion established for this analyte, it is our opinion that this QC failure does not affect the interpretation of the data. The samples with positive results that may be biased have been qualified with a "J" in Tables 2, 5, and 6 and should be considered estimated quantities.

The recoveries of the surrogates 13C4_PFOA, 13C2_PFDA, and 13C2_PFHxA associated with Sample SB10-1 were below laboratory limits, indicating the potential for the associated analytes to be biased low, and therefore positive detections of these parameters are qualified with a "J" in Table 6 and should be considered estimated concentrations. However, because PFOS and PFOA were detected within this sample at concentrations exceeding the associated ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Surrogate recoveries for all other samples within the batch were within the laboratory acceptance limits, verifying that the instrument detector was working as expected. Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range.

Incorrect isotope ratios were obtained for several analytes within project samples. Impacted analytes include the following: PFNS in Sample SB10-1, SB15-1, SB29-1, SB30-1, and SB192-1. Positively detected values of PFNS in these samples have been qualified with a "J" in Table 6 and should be considered estimated concentrations. However, because there is no ADEC cleanup criterion for this analyte, it is our opinion that this QC failure does not impact the interpretation of the data.

c. Were all corrective actions documented?

Yes No N/A Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

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CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

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CS Site Name:

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ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

v. Data quality or usability affected?

Comments:

No

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

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iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

See 4 b above.

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Laboratory Report Date:

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CS Site Name:

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iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

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iv. Data quality or usability affected?

Comments:

See 4 b above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

v. Data quality or usability affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

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ii. Submitted blind to lab?

Yes No N/A Comments:

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB1-3 was a duplicate of Sample SB1-1. All analytes exhibited relative percent differences (RPDs) that were within the ADEC recommended acceptance range of less than 50 percent.
Sample SB180-4 was duplicate sample of Sample SB180-2. The RPD for PFOS, the only parameter that had detections in both samples was within the ADEC-recommended range of less than 50 percent.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

Equipment blank from this day of sampling was listed under a separate lab report

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

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iii. Data quality or usability affected?

Comments:

No

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

10609490

Laboratory Report Date:

8/2/2022

CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

10609490

Laboratory Report Date:

8/2/2022

CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 4.2 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

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CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

According to the laboratory, diminished/elevated EIS recoveries were present in Sample EB-518 and within the laboratory method blanks. The use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard. The impacted data include PFDA, 4:2 FTS, 6:2 FTS, 8:2 FTS, d3MeFOSAA, d3MeFOSAA. However, these analytes were not detected at concentrations exceeding the MDLs; therefore, it is our opinion that this QC error does not impact the interpretation of the data.

The recovery of EIS d3-N-MeFOSA was below the laboratory acceptance limits within several samples, indicating the potential for the results of the associated analyte MeFOSA to be biased low within the affected samples. MeFOSA was not detected in any of the associated project samples at concentrations exceeding the MDL. However, because there is no ADEC cleanup criterion established for MeFOSA, it is our opinion that this QC failure does not affect the interpretation of the data.

The recovery of the surrogate 13C2_PFDA within sample EB-518 was below laboratory acceptance limits, indicating the potential for the associated analytes to be biased low. However, because this analyte was not detected within this sample at a concentration exceeding the laboratory MDL, and because there is no ADEC cleanup criterion established for this analyte, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Incorrect isotope ratios were obtained for PFHxA in Sample SB56-1. This value has been qualified with a "J" in Table 5, and should be considered to be an estimated concentration. However, because this analyte does not have an ADEC cleanup level, it is our opinion that this QC failure does not impact the interpretation of the data.

c. Were all corrective actions documented?

Yes No N/A Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

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Laboratory Report Date:

8/2/2022

CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

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CS Site Name:

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ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

v. Data quality or usability affected?

Comments:

No

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

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iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

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iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

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8/2/2022

CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

iv. Data quality or usability affected?

Comments:

See 4 b above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

v. Data quality or usability affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

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Laboratory Report Date:

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CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

ii. Submitted blind to lab?

Yes No N/A Comments:

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

All RPDs were either 24 percent or could not be calculated because the parameters were not detected in the samples.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected?

Comments:

No

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7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

10609607

Laboratory Report Date:

7/20/2022

CS Site Name:

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ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 6.2 degrees Celsius, which is slightly above the prescribed optimal temperature range of 0 to 6 degrees Celsius, however, due to the relatively low volatility of the PFAS analytes being tested, and the slight temperature exceedance, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

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b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

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b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

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A LCS was prepared with each of the four sample batches covered within this report using clean reference matrix that had been fortified with native standards. The recovery of 11-Cl-PF3OUdS within LCS Sample LCS-99288 was below laboratory acceptance limits, indicating the potential for the results for this analyte in associated project samples to be biased low, however, because there is no ADEC cleanup criterion established for 11-Cl-PF3OUdS, it is our opinion that this QC failure does not affect the interpretation of the data. 11-Cl-PF3OUdS was not detected within any of samples associated with this LCS.

The recovery of all analytes within LCS sample LCS-99468 exceeded the laboratory limits indicating the potential for the results of all analytes in associated project samples to be biased high. However, because the potential bias is high and no analytes were detected within any of the samples associated with this LCS, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

One MS/MSD pair was prepared and analyzed with each of the four sample batches covered within this report. The recoveries of several analytes within the MS/MSD samples were either below or exceeded laboratory acceptance limits. According to the laboratory, these deviations may be due to the presence of the affected analytes in the sample material and/or sample heterogeneity. Because there are no ADEC cleanup criteria established for analytes other than PFOS and PFOA, it is our opinion that this QC failure does not affect the interpretation of the data for analytes other than PFOS and PFOA. Results for PFOS within samples SB44-1, SB45-1, SB46-1, SB48-1, SB119-1, and SB125-1 may be biased low but the reported concentrations of PFOS within these samples exceed the applicable ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOS within samples SB47-1, SB122-1, SB124-1, SB154-1, SB155-1, SB156-1, SB156-3, SB157-1, SB158-1, SB159-1, SB160-1, SB161-1, SB162-1, and SB163-1 may be biased low but are at least 60 percent below the applicable ADEC cleanup criterion; therefore it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOA within samples SB47-1, SB48-1, SB122-1, SB124-1, SB154-1, SB155-1, SB156-1, SB156-3, SB157-1, SB158-1, SB159-1, SB160-1, SB161-1, SB162-1, and SB163-1 may be biased high, but do not exceed the applicable ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOA within samples SB44-1, SB45-1, SB46-1, SB119-1, and SB125-1 may be biased high but are at least 29 percent above the applicable ADEC cleanup criterion, therefore it is our opinion that this QC failure does not affect the interpretation of the data. The affected values were qualified with a "J" within the results tables and should be considered estimated concentrations.

According to the laboratory, diminished/elevated EIS recoveries were present within laboratory blank samples Blank-99467 and Blank-99469 and within the CCV sample, however, the use of the isotope dilution method generally precludes any adverse impact on those individual native compounds that have a directly associated standard. The laboratory qualified the data that have been impacted, and these qualifications are included in the paragraphs throughout this data package discussion.

Samples SB125-1, SB119-1, SB44-1, SB45-1, SB46-1, and SB48-1 were analyzed with the ending CCV recovery exceeding the laboratory acceptance criteria for 6:2 FTS. This indicates the potential for

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the reported concentrations of 6:2 FTS to be biased high within these samples. However, because there is no ADEC cleanup criterion established for 6:2 FTS, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables, and should be considered to be estimated concentrations.

Several samples had low recoveries for the four injection internal standards (13C4 PFOA, 13C4 PFOS, 13C2_PFDA, and 13C2_PFHxA), which according to the laboratory, was likely due to high native analyte concentrations or matrix interference. This indicates the potential for the reported concentrations of associated analytes to be biased low within these samples. Because all affected samples exhibited concentrations of PFOS and/or PFOA that exceeded the ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data.

Results for selected analytes were taken from secondary dilutions of the sample extracts in order to bring the results within the calibration range. The affected values have been qualified with a "J" within the results tables.

An incorrect isotope ratio was obtained for PFNS in Sample SB162-1. This value has been qualified with a "J" in Table 5, and should be considered an estimated concentration. However, because there is no ADEC cleanup criterion for this analyte, it is our opinion that this QC failure does not impact the interpretation of the data.

Due to extended laboratory processing times, Samples SB130-1, SB146-1, SB133-3, SB131-1, SB121-1, SB123-1, SB127-1, SB128-1, SB126-1, SB120-1, and SB122-3 were extracted outside of the method required holding time of 28 days, and thus can be considered to potentially be biased low. Therefore, positively detected analytes in the affected samples have been qualified with a "J" in Table 5 and should be considered to have estimated concentrations. However, due to the relatively low volatile nature of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Concentrations of some analytes exceeded the laboratory calibration range. The affected values are potentially biased and have been qualified with a "J" within the results tables and should be considered to be estimated concentrations. These include PFPeA and 6:2 FTS in Samples SB120-1 and SB121-1; PFPeA in SB126-1; and 6:2 FTS in Samples SB119-1, SB45-1, SB46-1, and SB47-1. Because there are no ADEC cleanup criteria established for the affected analytes, it is our opinion that this QC failure does not affect the interpretation of the data.

c. Were all corrective actions documented?

Yes No N/A Comments:

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d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

See 4 b above.

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

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6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

v. Data quality or usability affected?

Comments:

No

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

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iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

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ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

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ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

iv. Data quality or usability affected?

Comments:

See 4 b above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

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v. Data quality or usability affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

iii. Precision – All relative percent differences (RPD) less than specified project objectives? (Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB133-3 was a duplicate of Sample SB133-1, and Sample SB122-3 was a duplicate of Sample SB122-1. The RPDs for PFOS in these sample pairs exceeded the ADEC-recommended range of less than 50 percent, indicating the potential for this analyte to be biased in the samples collected from this area of the site (HOM11). This may be due to the heterogeneity of the soils. Therefore, this parameter is qualified with a “J” in Table 5 and should be considered to have estimated concentrations.
Sample SB156-3 was a duplicate of Sample SB156-1. The RPDs for all analytes that were detected in both of these samples were within the ADEC-recommended range of less than 50 percent.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No. All project samples within this report either exceeded the applicable ADEC cleanup criterion for PFOS by at least 29 percent or were below the applicable ADEC cleanup criterion for PFOS by at least 60 percent.

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g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected?

Comments:

No

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

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Laboratory Report Date:

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ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 7.7 degrees Celsius, which is above the prescribed optimal temperature range of 0 to 6 degrees Celsius, however, due to the relatively low volatility of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

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b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Samples SB13-1, SB9-3, SB18-1, SB12-1, SB14-1, EB-526, and EB-523 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Sample SB17-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within this sample. Therefore, positive detections of affected analytes are qualified with a "J" in Table 6 and should be considered estimated concentrations. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the sample already exhibited an exceedance of ADEC cleanup criteria for PFOS and PFOA, it is our opinion that this QC failure does not affect the interpretation of the data.

According to the laboratory, Samples EB-526 and EB-523 required centrifugation prior to extraction, due to excessive solids present in the samples. Centrifugation was performed following the PFAS Aqueous Centrifuge Protocol; samples were spiked with Surrogate (SUR; Extracted Internal Standard/EIS) and shaken vigorously before being poured into a conical bottle and centrifuged. The centrifuged aqueous sample was decanted back into the original sample bottle, off of the condensed solids remaining in the centrifuge bottle. The original sample bottle was rinsed as normal and the centrifuge bottle was rinsed with 4 milliliters (mL) of methanol (MeOH). The centrifuge bottle rinsate was added to the elution. The samples were concentrated to less than 5 mL and reconstituted to 5 mL using MeOH by transfer pipet.

c. Were all corrective actions documented?

Yes No N/A Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

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5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

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ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

v. Data quality or usability affected?

Comments:

No

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

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iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

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iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

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iv. Data quality or usability affected?

Comments:

See 4 b above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

v. Data quality or usability affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

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ii. Submitted blind to lab?

Yes No N/A Comments:

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB9-3 was a duplicate of Sample SB9-1. The RPDs for the parameters that were detected in both samples were within the ADEC-recommended range of less than 50 percent.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected?

Comments:

No

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7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1498544

Laboratory Report Date:

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CS Site Name:

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ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 5.7 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

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b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Recovery of one or more of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Samples SB24-1, SB25-1, SB28-1, and SB27-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2 FTS, 13C2_6:2 FTS and 13C2_8:2 FTS within Sample SB6-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the sample. The sample was analyzed for a second time and the surrogate recoveries were within laboratory acceptance limits. Because the second run of the surrogates yielded results within acceptable laboratory limits, because any potential bias is high, and because the associated analytes were not detected within the affected sample, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogate 13C2_8:2 FTS within Sample SB8-1 exceeded the laboratory limits, indicating the potential for the reported concentration of the associated analyte to be biased high within the sample. However, because there is no established ADEC cleanup criterion for the affected analyte, and because the sample exhibited PFOS and PFOA concentrations exceeding the ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data. The affected value has been qualified with a "J" within the results tables and should be considered an estimated concentration.

c. Were all corrective actions documented?

Yes No N/A Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

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b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

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iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

v. Data quality or usability affected?

Comments:

No

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

N/A

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

No

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

iv. Data quality or usability affected?

Comments:

See 4 b above.

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e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

The samples on this work order were not analyzed for volatile contaminants.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

v. Data quality or usability affected?

Comments:

The samples on this work order were not analyzed for volatile contaminants.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

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iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB6-3 was a duplicate of SB6-1. The RPDs for hydrocarbon-related analytes RRO, 1,1,2-trichloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-Methyl-2-pentanone (MIBK), ethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, p-isopropyltoluene, sec-butylbenzene, and total xylenes exceeded the ADEC recommended acceptance guideline of less than 50 percent, indicating the potential for these analytes to be biased in the samples collected from this area of the site (HOM4). This may be due to the heterogeneity of the soils. Therefore, these parameters are qualified with a “J” in Table 3 and should be considered to have estimated concentrations. However, for all petroleum samples collected from the HOM4 area, the petroleum-related analytes either exhibited concentrations that exceeded ADEC cleanup criteria by several orders of magnitude, or were non-detectable or exhibited concentrations well below ADEC cleanup criteria. Therefore, it is our opinion that this QC failure does not impact the interpretation of the data. In some cases, these parameters were non-detectable at concentrations below the MDLs. In these instances, it cannot be determined if those parameters actually had concentrations that exceeded ADEC cleanup criteria.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

See 6.f.iii above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

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ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N/A

iii. Data quality or usability affected?

Comments:

No

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

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ADEC File Number:

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Hazard Identification Number:

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

These samples were analyzed for PFAS by the PACE Analytical Laboratory located in Columbia, South Carolina, which is approved for the specified analyses by the ADEC.

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

This laboratory data package L1496985 includes laboratory Lot Numbers XE24082, XE24083, XE24084, XE24085, XE24087, XE24088, and XE24090.

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

For this laboratory data package L1496985, the samples were shipped in three separate coolers which arrived at the laboratory with measured temperature blanks of 4.2, 8.0, and 12.3 degrees Celsius. Two of these coolers arrived at the laboratory with measure temperatures which were above the prescribed optimal temperature range of 0 to 6 degrees Celsius. However, because of the relatively low volatile nature of the PFAS analytes being tested, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

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b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

See 3 a above. No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

Lot Numbers XE24088 and XE24090: Recovery of one or more of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, 13C2_8:2FTS, d5-EtFOSAA, and d3-MeFOSAA within samples SB72-1, SB175-1, SB177-1, SB176-1, SB34-1, SB37-3, SB35-1, SB38-1, SB36-1, SB171-1, SB169-1, SB112-2, SB184-1, SB185-1, SB173-1, SB176-3, SB37-1, and SB174-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the

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acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, and 13C2_8:2FTS within sample SB73-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the sample. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the sample yielded a concentration of PFOS that exceeds the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables, and should be considered estimated concentrations.

Sample SB176-3 was a duplicate of Sample SB176-1. RPDs for PFHxS and PFOS exceeded the ADECs recommended acceptable range of less than 50 percent. Therefore, these parameters are qualified with a "J" in Table 3 and should be considered to have estimated concentrations. This may be due to the heterogeneity of the soils. However, because there is no cleanup criterion for PFHxS, it is our opinion that this QC error does not impact the interpretation of this analyte. Regarding the PFOS concentrations, we have taken a conservative approach of considering all of the PFOS concentrations that exceeded the ADEC cleanup criterion to actually be such an exceedance. Regarding the samples with PFOS concentrations below the ADEC cleanup criterion, they were all at least 30 percent below the ADEC cleanup criterion with one exception, and for these samples, it is our opinion that this QC failure does not impact the interpretation of those data. However, for Sample SB25-1, the PFOS concentration was less than 7 percent below the ADEC cleanup criterion. Therefore, for this sample, it may be prudent to consider this location as being potentially positive for PFOS. Thus, we have included a note to this effect on Figure 3.

Lot Numbers XE24087 and XE24085: Recovery of one or more of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, 13C2_8:2FTS, and d5-EtFOSAA within samples SB92-1, SB113-1, SB89-1, SB91-1, SB114-3, SB117-1, SB114-1, SB118-1, SB105-1, SB104-1, SB99-1, SB79-1, SB100-1, SB111-1, SB101-1, and SB106-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. Therefore, these analytes are qualified with a "J" in Table 5 and should be considered to be estimated concentrations. However, because the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

Recovery of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, and 13C2_8:2FTS within sample SB83-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the sample. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the sample has yielded PFOS and PFOA concentrations exceeding ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables and should be

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considered estimated concentrations.

Lot Numbers XE24082, XE24083, and XE24084: Recovery of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, 13C2_8:2FTS, and d5-EtFOSAA within the MS exceeded the laboratory limits, as did the recovery of 6:2 FTS, PFHxS, and PFOS. Recovery of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, 13C2_8:2FTS within the MSD exceeded the laboratory acceptance limits, as did the recovery of 6:2 FTS and PFOS. These exceedances indicate that these analytes in the corresponding project samples may be biased high, and the positive detections are qualified with a “J” in Table 5 and should be considered estimated concentrations. The RPD for 8:2FTS between the MS and MSD was outside of the laboratory limits, indicating that this analyte in the associated project samples may be biased and the positive detections are qualified with a “J” in Table 5 and should be considered estimated concentrations. According to the laboratory, these deviations may be due to the presence of the affected analytes in the sample material and/or sample heterogeneity. However, because there are no ADEC cleanup criteria established for these analytes other than PFOS, it is our opinion that this QC failure does not affect the interpretation of the data for analytes other than PFOS. Results for PFOS within samples SB41-1, EB-520, SB76-2, SB85-3, SB42-3, SB88-1, SB84-1, SB85-1, SB96-1, may be biased high but are all below the applicable ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the interpretation of the data. Results for PFOS within samples SB76-1, SB78-1, SB39-1, SB42-1, SB40-1, SB43-1, SB86-1, SB186-1, SB187-1, SB188-1, and SB189-1 may be biased high but the reported concentrations of PFOS within these samples exceed the applicable ADEC cleanup criterion by at least 23 percent, therefore it is our opinion that this QC failure does not affect the interpretation of the data.

The recovery of the surrogates 13C2_8:2FTS and 13C6_PFDA within LCS sample XQ43083-002 exceeded the laboratory acceptance limits indicating the potential for the results of the associated analytes within this sample to be biased high. However, because the potential bias is high and the associated analytes were not detected within the LCS sample, it is our opinion that this QC failure does not affect the interpretation of the data.

Recovery of one or more of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, 13C2_8:2FTS, 13C2_PFD_oA, d5-EtFOSAA, and d3-MeFOSAA within samples SB41-1, SB39-1, SB76-2, SB75-1, SB74-1, SB94-1, SB95-1, SB80-3, SB116-1, SB93-1, and SB90-1 exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within these samples. However, as the potential bias is high and the associated analytes were not detected within any of the affected samples, it is our opinion that this QC failure does not affect the interpretation of the data.

Recovery of one or more of the surrogates 13C2_4:2FTS, 13C2_6:2FTS, 13C2_8:2FTS, 13C2_PFD_oA, d5-EtFOSAA, and d3-MeFOSAA within samples SB76-1, SB78-1, SB42-1, SB40-1, SB188-1, SB43-1, SB86-1, SB189-1, SB98-1, SB77-1, SB87-1, and SB97-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of the associated analytes to be biased high within the

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affected samples. However, because there are no established ADEC cleanup criteria for the affected analytes, and because the samples yielded concentrations of PFOS and/or PFOA that exceed ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data. The affected values have been qualified with a "J" within the results tables, and should be considered estimated concentrations.

c. Were all corrective actions documented?

Yes No N/A Comments:

See 4 b above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

PFOS and PFOA exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized.

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e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

The MB results were less than the RDL.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

v. Data quality or usability affected?

Comments:

The MB results were less than the RDL.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

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ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

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c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

See 4 b above.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

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vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

iv. Data quality or usability affected?

Comments:

See 4 b above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

A trip blank is not required for PFAS analyses.

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ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?
(If not, a comment explaining why must be entered below)

Yes No N/A Comments:

A trip blank sample is not required for PFAS analyses.

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

A trip blank sample is not required for PFAS analyses.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

A trip blank sample is not required for PFAS analyses.

v. Data quality or usability affected?

Comments:

A trip blank sample is not required for PFAS analyses.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

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Sample 179-4 was a duplicate of Sample 179-2. Because all parameters were non-detectable, it was not possible to calculate RPDs for this sample pair.

Sample 37-3 was a duplicate of Sample 37-1. Most of the analytes were non-detectable in one or both of the sample pair and RPDs could not be calculated for these parameters. RPDs for PFHxA, PFHxS, and PFOs were within the acceptable range of less than 50 percent as recommended by the ADEC.

Sample SB42-3 was a duplicate of Sample SB42-1. The RPDs for the following analytes exceeded the ADEC recommended acceptance range of less than 50 percent: 6:2FTS, PFBS, PFHpS, PFPeS, PFBA, PFHpA, PFHxA, PFOA, PFPeA, PFHxS, and PFOS, indicating the potential for these analytes in the associated sampling area (HOM11) to be biased. Therefore, positive detections of these analytes have been qualified with a “J” in Table 5, and should be considered estimated concentrations. Except for PFOA and PFOS, because there is no ADEC cleanup criteria for these analytes, it is our opinion that this QC failure does not impact the interpretation of the data. For PFOA and PFOS concentrations, we have taken a conservative approach of considering all of the PFOS concentrations that exceeded ADEC cleanup criteria to actually be such exceedances. Regarding the samples with PFOA concentrations below the ADEC cleanup criterion, they were all at least 17 percent below the ADEC cleanup criterion with one exception, and for these samples, it is our opinion that this QC failure does not impact the interpretation of those data. However, for Sample SB187-1, the PFOA concentration was less than 6 percent below the ADEC cleanup criterion. Therefore, for this sample, it may be prudent to consider this location as being potentially positive for PFOA. Thus, we have included a note to this effect on Figure 5. Regarding the samples with PFOS concentrations below the ADEC cleanup criterion, they were all at least 13 percent below the ADEC cleanup criterion with two exceptions, and for these samples, it is our opinion that this QC failure does not impact the interpretation of those data. However, for Sample SB75-1, the PFOS concentration was less than 7 percent below the ADEC cleanup criterion and for SB37-3, the PFOS concentration was less than 4 percent below the ADEC cleanup criterion. However, Sample SB37-3 was part of a duplicate pair which experienced a RPD within the acceptable range for PFOS; therefore, this QC failure is not considered to impact the interpretation of the PFOS concentrations in SB37-3 (and its companion duplicate sample SB37-1). For SB 75-1, it may be prudent to consider this location as being potentially positive for PFOS. Thus, we have included a note to this effect on Figure 5.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

See 6, f, iii above.

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g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

PFBA was detected in equipment blank EB-520, covering the sampling activities performed on May 20, 2022, at a concentration above the MDL but below the LOQ. However, the detection was an estimate that did not exceed the LOQ, there is no applicable ADEC cleanup criterion for the analyte in question, and a disposable Macro-core liner used between the reused downhole sampling equipment and the sample material for each sample. Therefore, it is our opinion that this QC failure does not affect the interpretation of the data.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

See 6 g i above.

iii. Data quality or usability affected?

Comments:

See 6 g i above.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

L1496684

Laboratory Report Date:

6/03/2022

CS Site Name:

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ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

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Laboratory Report Date:

6/03/2022

CS Site Name:

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 4.6 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The recovery of acetone within the LCSD sample was below the laboratory acceptance limits. Additionally, the RPD between the recoveries of acetone in the LCS/LCSD sample pair exceeded laboratory limits. This indicates the potential for the reported concentrations of acetone within the associated project samples to be biased within the affected samples. Therefore, the positively detected affected values have been qualified with a "J" within the results tables. However, none of the reported levels of acetone within the associated project samples exceeded one tenth of the applicable ADEC cleanup criterion, therefore, it is our opinion that this QC failure does not affect the interpretation of the data.

The recovery of GRO and DRO within the MS/MSD sample pair was below the laboratory acceptance limits, indicating the potential for GRO and DRO concentrations in the associated project samples to be biased low. However, this MS/MSD sample pair was derived from soils from a different project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. Additionally, the RPD between the recoveries of GRO within the sample pair exceeded laboratory limits, indicating the potential for GRO concentrations in the associated project

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samples to be biased. According to the laboratory, these deviations may be due to the presence of the affected analytes in the sample material and/or sample heterogeneity. However, because all GRO concentrations were non-detectable at MDLs that were at least 2 orders of magnitude below the ADEC cleanup criterion, it is our opinion that the data are acceptable for their intended use.

The CCV sample recovery for acetone within samples SB132-1, SB45-3, SB156-1, SB126-1, and SB46-1, and the CCV sample recovery for 2-butanone (MEK) within samples SB132-1, SB156-1, and SB46-1 exceeded laboratory acceptance limits, indicating the potential for the reported concentrations of these analytes within these project samples to be biased high within the associated samples. However, none of the reported concentrations of the affected analytes exceed the applicable ADEC cleanup criteria, therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The affected values have been qualified with a "J" within the results tables.

The CCVs for chloromethane, dichlorodifluoromethane, hexachloro-1,3-butadiene, trans-1,2-dichloroethene, and vinyl chloride within samples SB119-1, SB121-1, and SB44-1 were below laboratory acceptance limits, indicating the potential for the reported concentrations of these analytes within these project samples to be biased low. However, none of the impacted analytes were detected within the affected project samples, and the MDLs for the affected analytes were at least 21 percent below the applicable ADEC cleanup criteria. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The CCVs for bromomethane, chloroethane, dichlorodifluoromethane, and trichlorofluoromethane within the trip blank sample were below laboratory acceptance limits, indicating the potential for the reported concentrations of these analytes within the trip blank sample to be biased low. However, none of the affected analytes were detected within the project samples, or the trip blank sample at concentrations exceeding the MDLs and all of the MDLs were at least 2 orders of magnitude below the applicable ADEC cleanup criteria and therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The recovery of surrogates 1,2-dichloroethane-d4 and toluene-d8 within sample SB46-1 exceeded laboratory acceptance limits, indicating the potential for the reported concentrations of associated analytes within sample SB46-1 to be biased high. However, none of the affected analytes were detected within sample SB46-1 and the MDLs for the affected analytes were below the applicable ADEC cleanup criteria. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The concentration of acetone within sample SB46-1 exceeded the instrument calibration range, indicating the potential for this result to be biased. Acetone was initially detected in this sample at a concentration one order of magnitude below the ADEC cleanup criterion and was reanalyzed by the laboratory because of several QC failures. Acetone was not detected in the reanalyzed sample.

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Although there were fewer QC issues associated with the reanalysis, it did have associated QC issues; therefore, conservatively, the detected concentration is included in Table 5 and is qualified with a “J” and should be considered an estimated value. However, because the detected concentration is one order of magnitude below the ADEC cleanup criterion, it is our opinion that this QC failure does not impact the interpretation of the data.

c. Were all corrective actions documented?

Yes No N/A Comments:

See 4 b above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

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d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

The MB results were less than the RDL.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

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v. Data quality or usability affected?

Comments:

The MB results were less than the RDL.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

See 4 b above.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

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vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

See 4 b above.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

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vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

iv. Data quality or usability affected?

Comments:

See 4 b above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

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ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?
(If not, a comment explaining why must be entered below)

Yes No N/A Comments:

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

All results were less than the LOQs.

v. Data quality or usability affected?

Comments:

All results were less than the LOQs.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

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iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB45-3 was a duplicate sample of SB45-1, and was collected to evaluate field sampling precision. The RPD between reported concentrations of RRO was 86 percent. which exceeds the ADEC’s acceptable limit of 50 percent. This indicates relatively poor field sampling precision with respect to this analyte, and may be due to soil heterogeneity. Therefore, the positively detected results for this analyte in all soil samples collected during the same day are qualified with a “J” in Table 5 and should be considered estimated values. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

See 6, f, iii above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

An equipment blank was not required for these analyses.

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iii. Data quality or usability affected?

Comments:

An equipment blank was not required for these analyses.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

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Laboratory Report Date:

6/08/2022

CS Site Name:

ADOT&PF Homer Airport Sitewide PFAS

ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

L1497358

Laboratory Report Date:

6/08/2022

CS Site Name:

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 2.7 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The recovery of 1,1,2,2-tetrachloroethane, 1,2,3-trichloropropane, and dibromomethane within both LCSs exceeded the laboratory acceptance limits, indicating the potential for the reported concentrations of these analytes within the associated project samples to be biased high. However, because the concentrations of these analytes were all non-detectable, and because the potential bias is high and none of the reported concentrations of these analytes exceeded the applicable ADEC cleanup criteria within any of the project samples, therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The recoveries of DRO and RRO within both of the MS/MSD pairs were below the laboratory acceptance limits due to high concentrations of these analytes within the parent samples. Additionally, the recovery of the surrogate n-triacontane d62 within one of the MS/MSD pairs was below the laboratory limits. This indicates the potential for the reported results for these analytes within the associated project samples to be biased low. However, because the parent samples for the MS/MSD pairs are not samples from this project and may be associated with matrix interferences from those soils, it is our opinion that this QC failure does not affect the acceptability of the data for their intended

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purpose.

The recoveries of 1-methylnaphthalene, 2-methylnaphthalene, and naphthalene within the MS/MSD pair were below the laboratory acceptance limits due to high concentrations of these analytes within the parent sample. This indicates the potential for the reported results for these analytes within the associated project samples to be biased low. However, because the parent sample for the MS/MSD pair is not one of the samples from this project and may be associated with matrix interferences from those soils, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The recoveries of benzo(a)anthracene, fluoranthene, phenanthrene and pyrene and/or chrysene and fluorene in one or more of the MS and MSDs were below the laboratory acceptance limits due to matrix interference. This indicates the potential for the reported results for these analytes within the associated project samples to be biased low. However, because the parent samples for the MS/MSD pairs are not samples from this project and may be associated with matrix interferences from those soils, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The RPDs between the recoveries of 1-methylnaphthalene, 2-methylnaphthalene, chrysene, fluorene, naphthalene and phenanthrene in the MS/MSD exceeded the laboratory control limits, indicating the potential for these analytes to be biased in the project samples. Therefore, positive detections of these analytes in the associated project samples are qualified with a "J" in Tables 3 and 5 and should be considered to be estimated concentrations. However, because the reported concentrations of these analytes are all at least two orders of magnitude below the applicable ADEC cleanup criteria, it is our opinion that this QC failure does not affect the interpretation of the data.

The CCVs for chloromethane and dichlorodifluoromethane within Samples SB120-1, SB186-1, SB181-1, SB181-3, SB77-1, SB78-1, SB39-1, SB115-1, SB110-1, SB184-1, SB185-1, and SB179-1 and the CCVs for chloromethane, dichlorodifluoromethane, hexachloro-1,3-butadiene, trans-1,2-dichloroethene, and vinyl chloride within samples SB42-1, SB88-1, SB43-1, SB187-1, SB189-1, SB117-1, and SB112-1, and the trip blank sample were below laboratory acceptance limits, indicating the potential for the reported results for these analytes within these project samples to be biased low. However, because none of these analytes were detected in any of the project samples and the MDLs for each analyte were at least 18 percent below the applicable ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The internal standards for one or more of 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2-butanone (MEK), acetone, ethylbenzene, naphthalene, n-propylbenzene, toluene and total xylenes within samples SB120-1, SB77-1, SB78-1, SB39-1, SB115-1, SB110-1, SB184-1, SB185-1, and SB179-1 exceeded the laboratory acceptance limits, according to the laboratory, due to matrix interference, indicating the potential for the reported concentrations of these analytes within these samples to be biased high. However, because the bias is high and none of the affected analytes had reported concentrations that

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exceeded the applicable ADEC cleanup criteria within the affected project samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The affected values have been qualified with a "J" within Tables 3 and 5 and should be considered to be estimated concentrations.

The recovery of surrogate a,a,a-trifluorotoluene (FID) within sample SB43-1 and toluene-d8 within samples SB120-1, SB39-1, SB115-1, SB184-1, and SB179-1 exceeded the laboratory limits, indicating the potential for the reported concentrations of associated analytes within these samples to be biased high. However, because the bias is high and none of the affected analytes were reported at concentrations exceeding the applicable ADEC cleanup criteria within the affected project samples, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose. The affected values have been qualified with a "J" within the results tables and should be considered to be estimated concentrations.

The recoveries of surrogate 4-bromofluorobenzene within samples SB78-1, SB184-1, and SB179-1 were below the laboratory acceptance limits, indicating the potential for the reported concentrations of associated analytes within these samples to be biased low. Because the associated analyte 1,1,2,2-tetrachloroethane was not detected in any of the project samples and the MDLs for this analyte were at least 86 percent below the applicable ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

c. Were all corrective actions documented?

Yes No N/A Comments:

See 4 b above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

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b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

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iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

The MB results were less than the RDL.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

v. Data quality or usability affected?

Comments:

The MB results were less than the RDL.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

See 4 b above.

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

See 4 b above.

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

iv. Data quality or usability affected?

Comments:

See 4 b above.

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e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?
(If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?
(If not, a comment explaining why must be entered below)

Yes No N/A Comments:

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

All results were below the LOQs.

v. Data quality or usability affected?

Comments:

All results were below the LOQs.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

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iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB181-3 was a duplicate sample of Sample SB181-1, and was collected to evaluate field sampling precision. The RPD between reported concentrations of 2-butanone (MEK) was 73 percent which exceeds the ADEC’s acceptable limit of 50 percent. This indicates relatively poor field sampling precision with respect to this analyte, and may be due to soil heterogeneity. Therefore, the positively detected results for this analyte in all soil samples collected during the same day are qualified with a “J” in Table 5 and should be considered estimated values. The RPD between the reported concentrations of acetone was 11 percent which is below the ADEC’s acceptable limit of 50 percent. This indicates relatively good field sampling precision with respect to this analyte. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

See 6, f, iii above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

N An equipment blank was not required for these analyses.

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iii. Data quality or usability affected?

Comments:

An equipment blank was not required for these analyses.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

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ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 4.8 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory>

e. Data quality or usability affected?

Comments:

No

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The recovery of GRO within the MS/MSD pair was below the laboratory acceptance limits, indicating the potential for the reported concentrations of GRO within the associated project samples to be biased low. However, because the MS/MSD sample pair was derived from soils from another project, it is our opinion that this QC failure does not affect the acceptability of the data for their intended purpose.

The RPD for GRO within the MS/MSD sample pair exceeded the laboratory limits, indicating the potential for the reported concentrations of GRO within the project samples to be biased. The affected values have been qualified with a "J" within the results tables and should be considered to be estimated concentrations. Because the GRO values were either non-detectable at concentrations that are two orders of magnitude below the ADEC cleanup criterion, or at least 24 percent below the ADEC cleanup criterion, or more than 100 percent above the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the interpretation of the data.

The recoveries of bromomethane and naphthalene within the CCV sample associated with Samples SB28-1, SB6-1, SB27-1, SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, SB2-3, SB3-1 and the

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recoveries of chloroethane and naphthalene within the CCV sample associated with Samples SB4-2, SB25-1, SB26-1, and SB6-2 were below the laboratory acceptance limits, indicating the potential for the reported concentrations of these compounds within the associated project samples to be biased low. Therefore, the affected values have been qualified with a "J" within the results tables. Because the concentrations of bromomethane in the project samples were all non-detectable at MDLs that exceeded the ADEC cleanup criterion; therefore, it cannot be determined if the actual concentrations of bromomethane exceed the ADEC cleanup criterion. The naphthalene concentrations in these samples either exceeded the ADEC cleanup criterion by at least one order of magnitude, or were non-detectable at MDLs that exceeded the ADEC cleanup criterion. Therefore, it is our opinion that this QC failure does not affect the interpretation of the samples that exhibited naphthalene exceedances. Regarding the samples with non-detectable concentrations at MDL values that exceeded the ADEC cleanup criterion, it cannot be determined if the actual concentration of this analyte exceeded this cleanup criterion in the affected samples.

The analyte 1,2,4-trimethylbenzene was detected in the Method Blank associated with Sample SB25-1. Therefore, the concentration of this analyte is qualified with a "J" in Table 3 and should be considered an estimate. Because the 1,2,4 trimethylbenzene concentration in this sample was below the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the acceptability of this datum for its intended purpose.

The recovery of acetone in the LCSD exceeded the laboratory's acceptance criteria, indicating the potential that acetone concentrations in the associated project samples are biased low. The following project samples are potentially affected: SB28-1, SB6-1, SB27-1, SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, SB2-3, and SB3-1. The acetone concentrations were non-detectable at MDLs that were at least 64 percent below the ADEC cleanup criterion, except for Samples SB6-1 and SB6-3 (duplicate of SB6-1). Therefore, with those exceptions, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The acetone concentrations in SB6-1 and SB6-3 were non-detectable at MDLs that exceeded the ADEC cleanup criterion; therefore, it cannot be determined if those concentrations actually exceeded the ADEC cleanup criterion.

The recoveries of surrogates n-triacontane d62 and o-terphenyl associated with analysis of DRO and RRO were below the laboratory's acceptance criteria for Samples SB2-1 and SB2-3, indicating the potential for the corresponding analytes to be biased low in these samples. However, because the DRO concentrations in these samples were at least 23 percent below the ADEC cleanup criterion and because the RRO concentrations were two orders of magnitude below the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the interpretation of the data. The potentially affected analytes are qualified with a "J" in Table 4 and should be considered estimated concentrations.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB4-2, SB25-1, SB26-1, SB28-1, SB6-1, and SB27-1 exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased high. However, this MS sample was

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derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, and SB2-3 exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased high. Because all of these DRO concentrations were non-detectable at MDLs below the ADEC cleanup criterion, except for the DRO concentration in SB6-3, which exceeded the ADEC cleanup criterion by one order of magnitude. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The DRO concentration in SB6-3 is qualified with a "J" in Table 3 and should be considered an estimate.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB3-1, and SB6-2 exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased high. However, this MS sample was derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of RRO in a MS and/or MSD sample associated with Project Samples SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, and SB2-3 were below the laboratory's acceptance criteria, indicating the potential for the RRO concentration in these samples to be biased low. Because these samples yielded RRO concentrations that were one to two orders of magnitude below the ADEC cleanup criterion, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The detections of RRO in these samples are qualified with a "J" in Tables 3 and 4 and should be considered estimated concentrations.

The recoveries of DRO in a MS and/or MSD sample associated with Project Samples SB3-1, and SB6-2 were below the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased low. However, this MS sample was derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The RPDs for DRO in a MSD sample associated with Samples SB8-2, SB5-1, SB24-1, SB7-2, SB2-1, SB6-3, and SB2-3 exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentrations in these samples to be biased. Because all of these DRO concentrations were non-detectable at MDLs at least 23 percent below the ADEC cleanup criterion, except for the DRO concentration in SB6-3, which exceeded the ADEC cleanup criterion by one order of magnitude, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The DRO concentration in SB6-3 is qualified with a "J" in Table 3 and should be considered an estimate.

The RPDs for DRO and RRO in a MSD sample associated with Project Samples SB3-1, and SB6-2

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exceeded the laboratory's acceptance criteria, indicating the potential for the DRO concentration in these samples to be biased. However, the DRO concentrations in these samples exceeded the ADEC cleanup criterion by at least 72 percent, and the RRO concentrations were at least 39 percent below the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. Concentrations of DRO and RRO in these samples are qualified with a "J" in Tables 3 and 4 and should be considered estimates.

The recoveries of the surrogates nitrobenzene-d5 and 2-fluorobiphenyl exceeded the laboratory's acceptance criteria for Samples SB4-2, SB6-1, and/or SB6-3, indicating the potential for the analytes associated with nitrobenzene-d5 (naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene) and those associated with 2-fluorobiphenyl (2-chloronaphthalene, acenaphthylene, acenaphthene, dibenzofuran, fluorene, phenanthrene, anthracene, fluoranthene, and pyrene) to be biased high in these samples. However, these analytes either exhibited non-detectable concentrations or exceeded ADEC cleanup criteria by at least 500 percent; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. These analytes are qualified in these samples in Table 3 with a "J" and should be considered to have estimated concentrations.

The recovery of surrogate nitrobenzene-d5 in Sample SB6-2 was below the laboratory's acceptance criteria, indicating the potential for associated analytes naphthalene, 1-methylnaphthalene, and 2-methylnaphthalene to be biased low in this sample. However, because all three of these analytes exhibited concentrations that exceeded ADEC cleanup criteria, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. These analytes are qualified in these samples in Table 3 with a "J" and should be considered to have estimated concentrations.

c. Were all corrective actions documented?

Yes No N/A Comments:

See 4 b above.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

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b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

See 4 b above.

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iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

See 4 b above.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

v. Data quality or usability affected?

Comments:

See 4 b above.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

See 4 b above.

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v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

iv. Data quality or usability affected?

Comments:

See 4 b above.

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e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes No N/A Comments:

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

Results were below the LOQs.

v. Data quality or usability affected?

Comments:

Results were below the LOQs.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

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iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where R_1 = Sample Concentration
 R_2 = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB6-3 is a duplicate of Sample SB6-1, and was collected to evaluate field sampling precision. The RPDs between reported concentrations within the sample/duplicate pairs ranged from 11 percent to 143 percent. The RPDs between reported concentrations of RRO, 1,1,2-trichloroethane, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 4-methyl-2-pentanone (MIBK), ethylbenzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, naphthalene, p-isopropyltoluene, sec-butylbenzene, and total xylenes ranged from 60 percent to 143 percent. This indicates relatively poor field sampling precision with respect to these analytes, and may be due to soil heterogeneity. Therefore, the positively detected results for these analytes in all soil samples collected during the same day are qualified with a “J” in Table 3 and should be considered estimated values. The RPDs between the reported concentrations of GRO, DRO, 1-methylnaphthalene, 2-methylnaphthalene, acenaphthene, benzo(a)anthracene, benzo(b)fluoranthene, fluoranthene, fluorene, naphthalene, phenanthrene, and pyrene ranged between 11 percent and 32 percent which is below the ADEC’s acceptable limit of 50 percent. This indicates relatively good field sampling precision with respect to these analytes. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

Sample SB2-3 is a duplicate of Sample SB2-1, and was collected to evaluate field sampling precision. The RPD between the reported concentrations of RRO was 42 percent which is below the ADEC’s acceptable limit of 50 percent. This indicates relatively good field sampling precision with respect to this analyte. The RPDs between reported concentrations of the remaining analytes could not be calculated, because the analytes were not detected at the LOQs in both of these samples.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

See 6, f, iii above.

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g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

An equipment blank was not required for these analyses.

iii. Data quality or usability affected?

Comments:

An equipment blank was not required for these analyses.

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A Comments:

Laboratory Data Review Checklist

Completed By:

Carson Kent

Title:

Environmental Scientist II

Date:

8-11-2022

Consultant Firm:

BGES, Inc.

Laboratory Name:

Pace Analytical

Laboratory Report Number:

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ADEC File Number:

2314.38.042

Hazard Identification Number:

27309

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Note: Any N/A or No box checked must have an explanation in the comments box.

1. Laboratory

a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?

Yes No N/A Comments:

b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?

Yes No N/A Comments:

2. Chain of Custody (CoC)

a. CoC information completed, signed, and dated (including released/received by)?

Yes No N/A Comments:

b. Correct analyses requested?

Yes No N/A Comments:

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt (0° to 6° C)?

Yes No N/A Comments:

The sample cooler arrived at the laboratory with a measured temperature blank of 3.3 degrees Celsius, which is within the prescribed optimal temperature range of 0 to 6 degrees Celsius.

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No N/A Comments:

The samples contained the proper preservatives for the requested analyses and no unusual sample conditions were noted by the laboratory.

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c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No N/A Comments:

No unusual sample conditions were noted by the laboratory.

e. Data quality or usability affected?

Comments:

No unusual sample conditions were noted by the laboratory.

4. Case Narrative

a. Present and understandable?

Yes No N/A Comments:

b. Discrepancies, errors, or QC failures identified by the lab?

Yes No N/A Comments:

The recoveries of bromomethane and naphthalene in the CCV sample for EPA 8260 analyses were below the laboratory’s acceptance criteria, indicating the potential for these analytes to be biased low in the associated samples (SB1-1, SB1-3, GAC-2, SB11-1, and SB193-1). However, the concentrations of bromomethane in these samples were non-detectable at MDLs that exceeded the ADEC cleanup criterion; therefore, it cannot be determined if the actual concentrations exceed the ADEC cleanup criterion. The concentrations of naphthalene were either non-detectable at MDLs that were below the ADEC cleanup criterion, or in cases where they were non-detectable at MDLs that exceeded the ADEC cleanup criterion, naphthalene was non-detectable at MDLs that were below the ADEC cleanup criterion or detected at concentrations of at least 83 percent below the ADEC cleanup criterion when analyzed via Method EPA 8270 SIM. Therefore, for naphthalene, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The detections of naphthalene in these samples are qualified with a “J” in Tables 6 and 7 and should be considered estimated concentrations.

The recovery of acetone in a LCSD exceeded the laboratory’s acceptance criteria indicating the potential

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for the acetone concentrations in associated Samples SB1-1, SB1-3, GAC-2, SB11-1, and SB19-3 to be biased high. However, acetone was non-detectable in these samples at MDLs that were below the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of 1,1,2-trichloroethane, 1,2,3-trichloropropane, 1,2-dibromo-3-chloropropane, 1,2-dibromoethane, bromoform, dibromomethane and naphthalene exceeded the laboratory's acceptance criteria indicating the potential for these analyte concentrations in the associated trip blank sample to be biased high. However, the concentrations of all of these analytes were non-detectable in the associated project samples; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recovery of surrogate n-triacontane d62 associated with RRO analysis for Sample SB193-1 was zero; therefore, the RRO concentration in this sample is qualified with a "J" in Table 6 and should be considered to be an estimate. Because the RRO concentration was only about 4 percent below the ADEC cleanup criterion, it is our opinion that this QC failure may impact the interpretation of the sample result; it may be that the actual concentration of RRO in this sample exceeds the ADEC cleanup criterion.

The recoveries of DRO in one MS sample and two MSD samples exceeded the laboratory's acceptance criteria, indicating that the DRO concentration in the associated project samples could be biased high. However, these QC samples were derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recoveries of RRO in two MS samples and one MSD sample were below the laboratory's acceptance criteria, indicating the potential that the RRO concentrations in the associated project samples could be biased low. However, these QC samples were derived from soils from another project; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use.

The recovery of RRO in a MSD sample was below the laboratory's acceptance criteria, indicating the potential that the RRO concentrations in the associated project sample (SB1-1) could be biased low. However, the RRO concentration in this soil sample was two orders of magnitude below the ADEC cleanup criterion; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The RRO detection in SB1-1 is qualified with a "J" in Table 2 and should be considered an estimated concentration.

The RPDs for DRO and/or RRO in three MSD samples exceeded the laboratory's acceptance criteria, indicating the potential for the associated DRO concentrations in associated Samples SB11-1 and SB193-1 and the RRO concentrations in associated Samples SB193-1, SB1-1, SB1-3, and GAC-2 to be biased. However, the DRO concentrations in SB11-1 and SB193-1 were one order of magnitude below

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and above the ADEC cleanup criterion, respectively; therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. The RRO concentrations in Samples SB1-1, SB1-3, and GAC-2 were either non-detectable at a MDL that was two orders of magnitude below the ADEC cleanup criterion, or were detected at concentrations that were two orders of magnitude below the ADEC cleanup criterion. Therefore, it is our opinion that this QC failure does not affect the acceptability of the data for their intended use. Because the RRO concentration in SB193-1 was only about 4 percent below the ADEC cleanup criterion, it is our opinion that this QC failure may impact the interpretation of the sample result; it may be that the actual concentration of RRO in this sample exceeds the ADEC cleanup criterion. The impacted DRO and RRO concentrations are qualified with a “J” in Tables 6 and 7 and should be considered estimates.

c. Were all corrective actions documented?

Yes No N/A Comments:

See 4 b above

d. What is the effect on data quality/usability according to the case narrative?

Comments:

See 4 b above.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No N/A Comments:

b. All applicable holding times met?

Yes No N/A Comments:

c. All soils reported on a dry weight basis?

Yes No N/A Comments:

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d. Are the reported LOQs less than the Cleanup Level or the minimum required detection level for the project?

Yes No N/A Comments:

Numerous analytes exhibited non-detectable concentrations at RLs or MDLs that exceeded ADEC cleanup criteria. In these instances, it cannot be determined if the actual concentration of these analytes exceeds the ADEC cleanup criteria. In instances where the RDL exceeds ADEC cleanup criteria, the results are italicized. In cases where the RDL and the MDL exceed the ADEC cleanup criteria, the results are italicized and underlined. In the latter instance (when both the RDL and the MDL exceed the ADEC cleanup criteria) it cannot be determined if the actual concentration of the analyte exceeds the ADEC cleanup criterion.

e. Data quality or usability affected?

See 4 b and 5 d above.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. All method blank results less than limit of quantitation (LOQ) or project specified objectives?

Yes No N/A Comments:

iii. If above LOQ or project specified objectives, what samples are affected?

Comments:

The MB results were less than the RDL.

iv. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

The MB results were less than the RDL.

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v. Data quality or usability affected?

Comments:

The MB results were less than the RDL.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes No N/A Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from LCS/LCSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes No N/A Comments:

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

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vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4b above.

c. Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Note: Leave blank if not required for project

i. Organics – One MS/MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

ii. Metals/Inorganics – one MS and one MSD reported per matrix, analysis and 20 samples?

Yes No N/A Comments:

The samples were not analyzed for metals / inorganics for this laboratory data package.

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable?

Yes No N/A Comments:

See 4 b above.

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits and project specified objectives, if applicable? RPD reported from MS/MSD, and or sample/sample duplicate.

Yes No N/A Comments:

See 4 b above.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

See 4 b above.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

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vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

See 4 b above.

d. Surrogates – Organics Only or Isotope Dilution Analytes (IDA) – Isotope Dilution Methods Only

i. Are surrogate/IDA recoveries reported for organic analyses – field, QC and laboratory samples?

Yes No N/A Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits and project specified objectives, if applicable? (AK Petroleum methods 50-150 %R for field samples and 60-120 %R for QC samples; all other analyses see the laboratory report pages)

Yes No N/A Comments:

See 4 b above.

iii. Do the sample results with failed surrogate/IDA recoveries have data flags? If so, are the data flags clearly defined?

Yes No N/A Comments:

See 4 b above.

iv. Data quality or usability affected?

Comments:

See 4 b above.

e. Trip Blanks

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes No N/A Comments:

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ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?
(If not, a comment explaining why must be entered below)

Yes No N/A Comments:

iii. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

See 4 b above.

iv. If above LOQ or project specified objectives, what samples are affected?

Comments:

See 4 b above.

v. Data quality or usability affected?

Comments:

See 4 b above.

f. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes No N/A Comments:

ii. Submitted blind to lab?

Yes No N/A Comments:

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iii. Precision – All relative percent differences (RPD) less than specified project objectives?
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where R₁ = Sample Concentration
R₂ = Field Duplicate Concentration

Yes No N/A Comments:

Sample SB1-3 was a duplicate sample of Sample SB1-1. RRO exhibited relative percent differences (RPDs) that were within the ADEC recommended acceptance range of less than 50 percent. The RPDs for the other analytes in these samples could not be calculated because one or both of the analytes were non-detectable.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

See 6, f, iii above.

g. Decontamination or Equipment Blank (If not applicable, a comment stating why must be entered below)?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

i. All results less than LOQ and project specified objectives?

Yes No N/A Comments:

An equipment blank was not required for these analyses.

ii. If above LOQ or project specified objectives, what samples are affected?

Comments:

An equipment blank was not required for these analyses.

iii. Data quality or usability affected?

Comments:

An equipment blank was not required for these analyses.

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7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes No N/A

Comments: