



October 14, 2024

Amy Ewing
Hazen and Sawyer
100 Sun Avenue NE, Suite 206
Albuquerque, New Mexico 87109

Re: Summary of Field Activities and Analytical Results
Soil Sampling Event
City of Santa Fe Paseo Real Wastewater Reclamation Facility

Dear Ms. Ewing:

Daniel B. Stephens & Associates, Inc. (DBS&A) is pleased to provide this letter report to Hazen and Sawyer (Hazen) summarizing results of the soil sampling event conducted at the City of Santa Fe (the City) Paseo Real Wastewater Reclamation Facility (PRWRF) in Santa Fe, New Mexico (the site) (Figure 1).

Background

The City historically used the site as a facility for sludge disposal land application. The PRWRF was constructed in the 1960s. The first discharge permit was issued for land application of sludge in June 1984, but it is unknown when the practice began. Land application activities were discontinued on March 9, 2022. Historical land application areas prior to and after 2010 are shown on Figure 1. Soil and hydromulch were applied to the ground surface after land application of sludge was discontinued at the site.

Sampling Analytes

Soil sampling was performed to evaluate whether poly- and perfluoroalkyl substances (PFAS) are present in the near surface soils below the former sludge disposal facility and in the surface materials applied after sludge application was discontinued. PFAS analytes and their respective acronyms are listed in Table 1. PFAS analytes with detections in July 2024 and the applicable screening levels are presented in Table 2. The applicable screening levels are New Mexico Environment Department (NMED) soil screening levels (SSLs) for target soil leachate concentrations (C_w) with a dilution attenuation factor (DAF) of 20 (NMED, 2022).

Scope of Work

On July 3, 2024, soil samples were collected from 9 locations, as shown on Figure 1. Field notes recorded during the soil sampling event are provided in Attachment 1.

A total of 13 soil samples were collected, including 9 primary samples and 2 duplicate samples of native soil at depths of 1 to 2 feet below ground surface (bgs) and 1 primary sample and 1 duplicate sample of surface material collected at 0 to 0.5 foot bgs. The samples were collected using a decontaminated stainless-steel hand auger. The hand auger was decontaminated before each sample using a solution of deionized water and Liquinox (or equivalent) soap. One equipment blank sample was collected from the decontaminated hand auger for quality control purposes using laboratory provided PFAS-free deionized water.

The soil sample locations were selected so that data were collected across the entire former sludge disposal facility, avoiding the on-site stormwater ponds and solar panels that have been installed (and any material that may have been introduced during their installation). With the exception of the surface samples, soil samples were collected from below the soil and hydromulch material that was applied to the surface after sludge application activities were discontinued, and from below the depth of historical on-site sludge application (0 to 8 inches bgs for liquid sludge and less for the broadcast application of the dewatered cake).

Soil samples were described according to the Unified Soil Classification System (USCS). Soils encountered at the site consisted of silty sand with some clay and gravel within the former sludge disposal areas, and gravelly sand with cobbles at off-site location SB-9 (Attachment 1).

Each soil sampling location was recorded in the field using a handheld global positioning system (GPS) unit (Table 2). Each soil boring was backfilled with soil cuttings and plugged at the surface with bentonite.

The soil samples were labeled and preserved on ice in an insulated cooler for shipment to Enthalpy Analytical Laboratory (Enthalpy) in El Dorado Hills, California for analysis using Environmental Protection Agency (EPA) method 1633. All samples were accompanied by full chain of custody documentation at all times. The complete laboratory report, including chain of custody, is provided in Attachment 2. Field notes documenting sample collection activities are provided in Attachment 1.

All activities were conducted in accordance with the procedures specified in the approved scope of work, which include eliminating potential sources of PFAS in field clothing, field equipment, sample containers, and supplies for equipment decontamination. For example, items banned from the work area included clothing washed with fabric softener, plastic clipboards and binders, adhesives, all materials containing Teflon, and most brands of waterproof field logbooks. DBS&A personnel refrain from the use of cosmetics, hand creams, moisturizers, sunscreen, and insect repellent when sampling for PFAS. These protocols are discussed at daily tailgate safety meetings and are strictly enforced. DBS&A has based these protocols on guidance published by the California State Water Resources Control Board (SWRCB) Division of Drinking Water.

Analytical Results

Soil analytical results are summarized in Table 3. Soil analytical results for the surface materials sample collected at SB-7 from 0 to 0.5 foot bgs are shown on Figure 2. Soil analytical results for native soil samples collected from 1 to 2 feet bgs are shown on Figure 3. Analytical results for individual PFAS analytes with concentrations above the NMED SSLs are shown on Figures 4 through 7.

PFAS were detected at concentrations above the NMED SSLs at 5 of the 9 primary soil sample locations collected from 1 to 2 feet bgs, as well as in the surface sample:

- SB-2 (2 feet bgs): PFOA (35.2 micrograms per kilogram [$\mu\text{g}/\text{kg}$]), PFNA (5.07 $\mu\text{g}/\text{kg}$), PFHxS (5.55 $\mu\text{g}/\text{kg}$), and PFOS (119 $\mu\text{g}/\text{kg}$)
- SB-3 (2 feet bgs): PFHxS (1.53 $\mu\text{g}/\text{kg}$) and PFOS (6.57 $\mu\text{g}/\text{kg}$)
- SB-4 (2 feet bgs): PFOS (1.46 $\mu\text{g}/\text{kg}$)
- SB-5 (2 feet bgs): PFOS (0.663 $\mu\text{g}/\text{kg}$)
- SB-6 (2 feet bgs): PFOS (0.464 $\mu\text{g}/\text{kg}$)
- SB-7 (0 to 0.5 foot bgs): PFOA (33.3 $\mu\text{g}/\text{kg}$), PFNA (15.8 $\mu\text{g}/\text{kg}$), PFHxS (3.75 $\mu\text{g}/\text{kg}$), and PFOS (30.7 $\mu\text{g}/\text{kg}$)

PFAS were detected in the sample collected at 2 feet bgs from SB-7 at concentrations below the NMED SSLs. PFAS were not detected at concentrations above laboratory reporting limits in samples collected from SB-1, SB-8, and SB-9. The SB-9 sample was the control sample collected off-site and away from the former land application area. Concentrations of PFAS in the duplicate samples are consistent with concentrations in the corresponding primary samples (Table 3). Concentrations of all PFAS were below laboratory reporting limits in the equipment blank quality control sample (Attachment 2).

Conclusions

A total of 13 soil samples were collected at the site. Based on the results of the soil sampling event, DBS&A provides the following conclusions regarding conditions at the site:

- PFAS were not detected in samples collected on the west side of the site (SB-1, SB-8, and SB-9). SB-1 was collected near monitor well MW-1, where PFAS have historically been detected in groundwater samples. SB-8 was collected near an arroyo to evaluate possible impacts from surface water runoff. SB-9 was collected off-site—outside of the historical sludge disposal area and away from site development.
- PFAS were detected in all other samples, which were collected within the former sludge disposal facility. Concentrations above the NMED SSLs were detected in the samples collected at 2 feet bgs from soil borings SB-2 through SB-6 and the surface materials sample collected from soil boring SB-7. The highest concentrations of PFAS were

detected in the samples collected from SB-2 and the surface materials collected from SB-7.

- SB-2 is located near the former sludge injection stand pipe and had a PFOS concentration (119 µg/kg) significantly above the NMED SSL of 0.209 µg/kg. Concentrations of PFOA, PFNA, and PFHxS also exceeded the NMED SSLs in this sample.
- The surface materials sampled at SB-7 from 0 to 0.5 foot were collected to represent the soil and hydromulch material applied to the surface after sludge application was discontinued at the site. Concentrations of PFOA, PFNA, PFHxS, and PFOS exceeded the NMED SSLs in this sample.

Based on the findings of this soil sampling event, PFAS are present in the shallow subsurface and in surface materials within the former sludge disposal areas at concentrations above the NMED SSLs. DBS&A recommends deeper sampling to evaluate the vertical extent of PFAS within the soils beneath the former sludge disposal areas at the locations where PFAS were detected above the NMED SSLs in samples of native soil.

Closing

DBS&A is pleased to provide this letter report summarizing soil sampling at the City of Santa Fe PRWRF. Please contact me at (505) 822-9400 if you have any questions or require additional information.

Sincerely,

DANIEL B. STEPHENS & ASSOCIATES, INC.



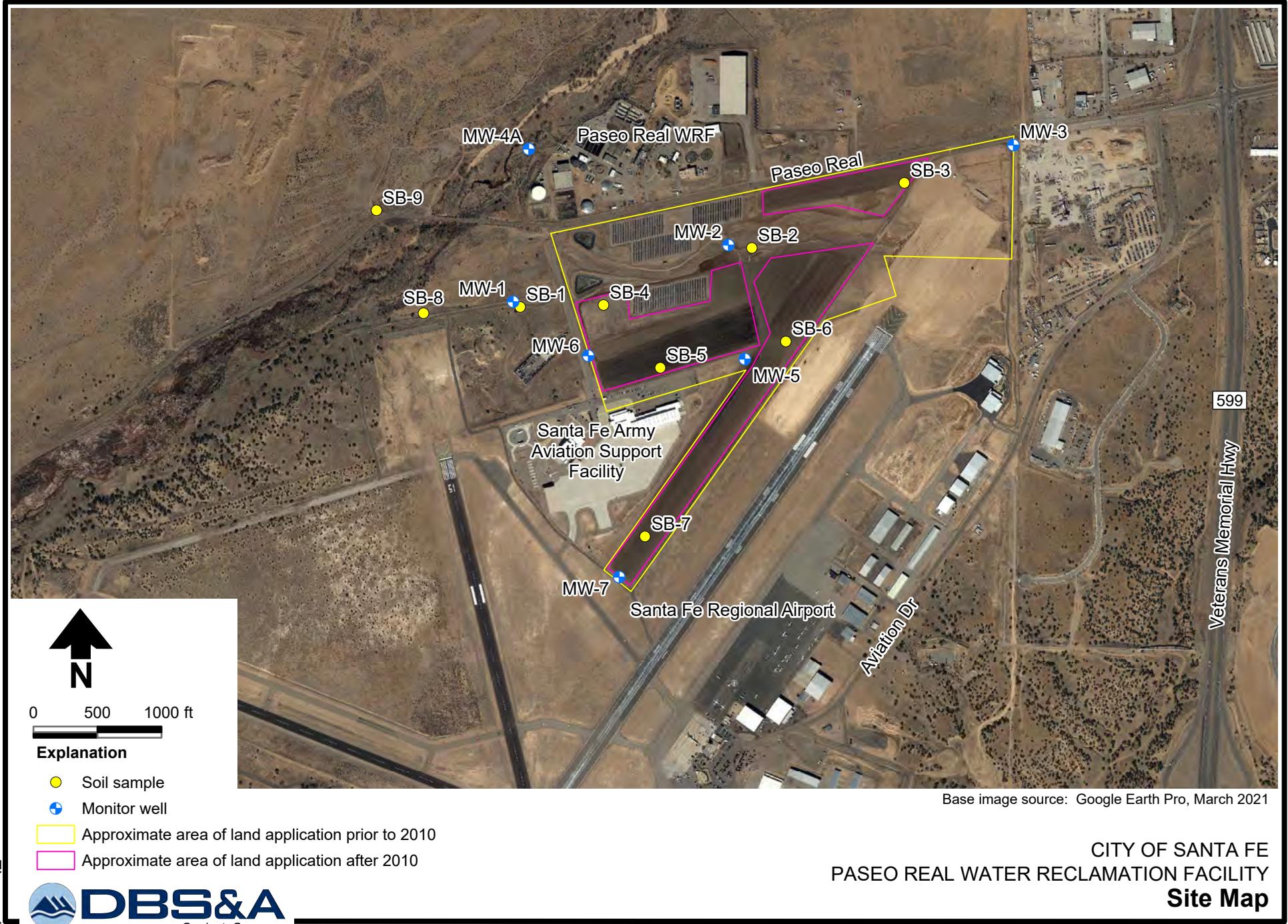
Patrice N. Feltman, P.G.
Project Manager

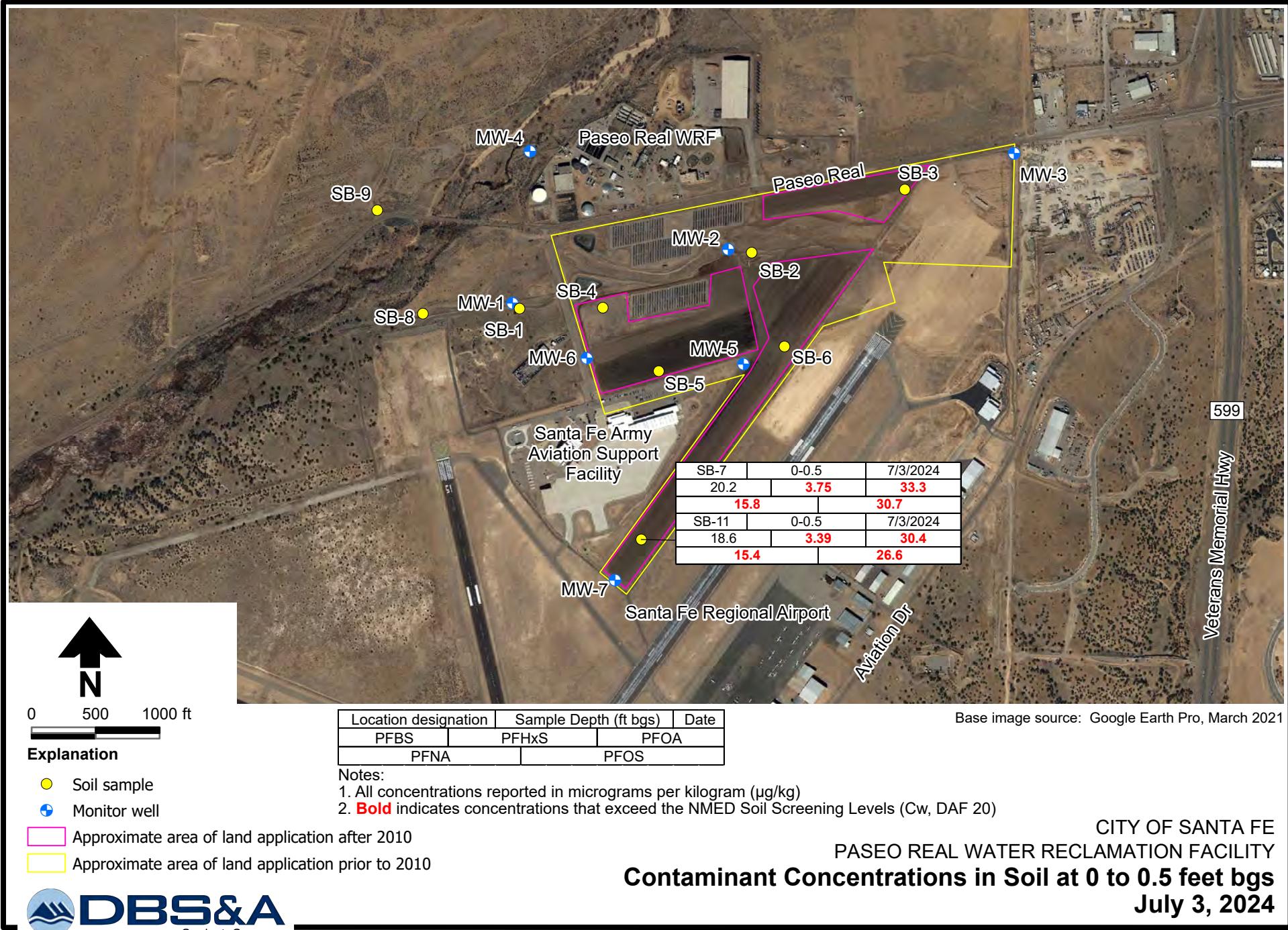
PNF/rpf
Attachments

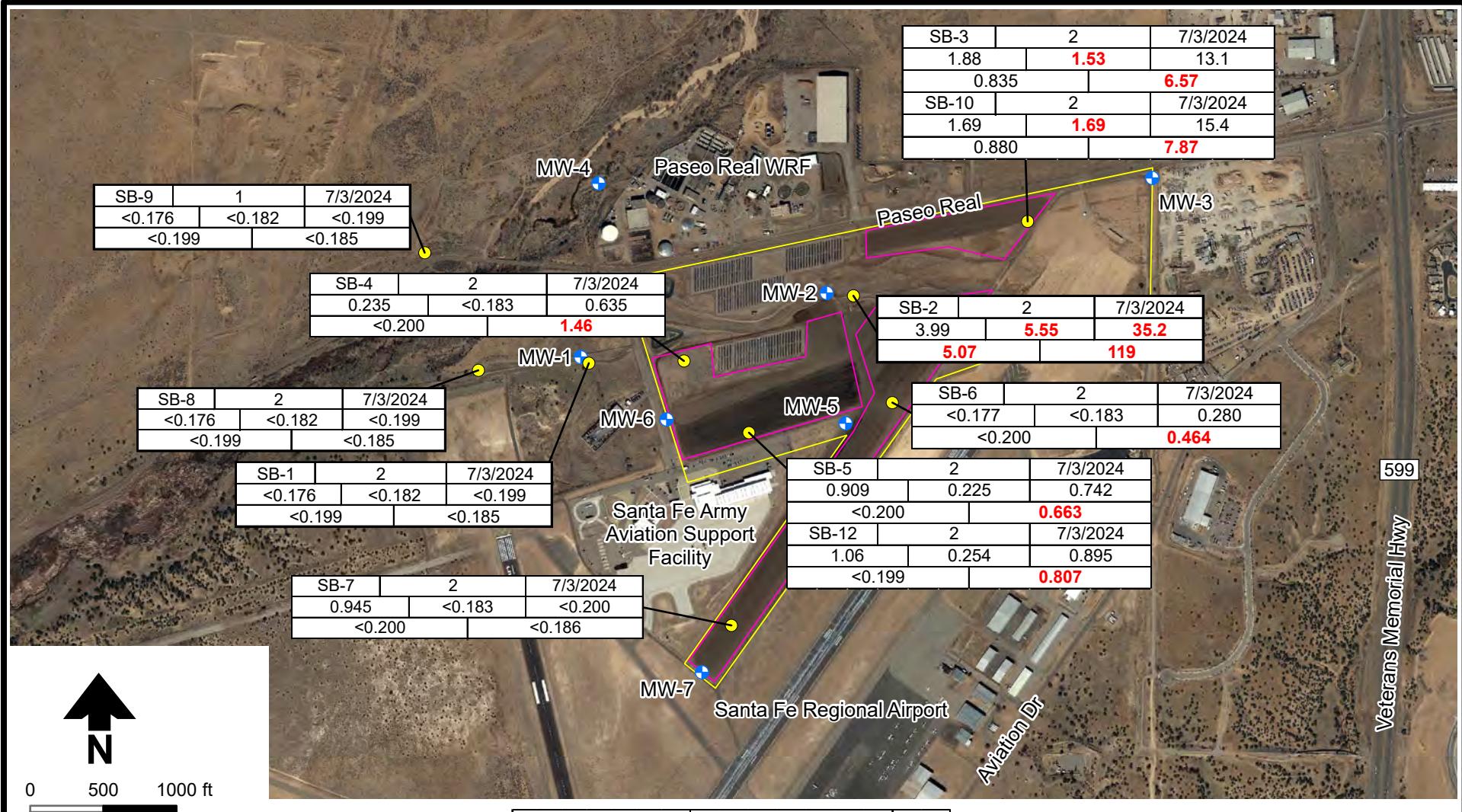
Reference

New Mexico Environment Department (NMED). 2022. *Risk assessment for site investigations and remediation, Volume I: Soil screening guidance for human health risk assessments*. November 2022.

Figures







Location designation	Sample Depth (ft bgs)	Date
PFBS	PFHxS	PFOA
PFNA		PFOS

Notes:

- All concentrations reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$)
- Bold** indicates concentrations that exceed the NMED Soil Screening Levels (Cw, DAF 20)

Base image source: Google Earth Pro, March 2021

CITY OF SANTA FE

PASEO REAL WATER RECLAMATION FACILITY

Contaminant Concentrations in Soil at 1 to 2 feet bgs
July 3, 2024



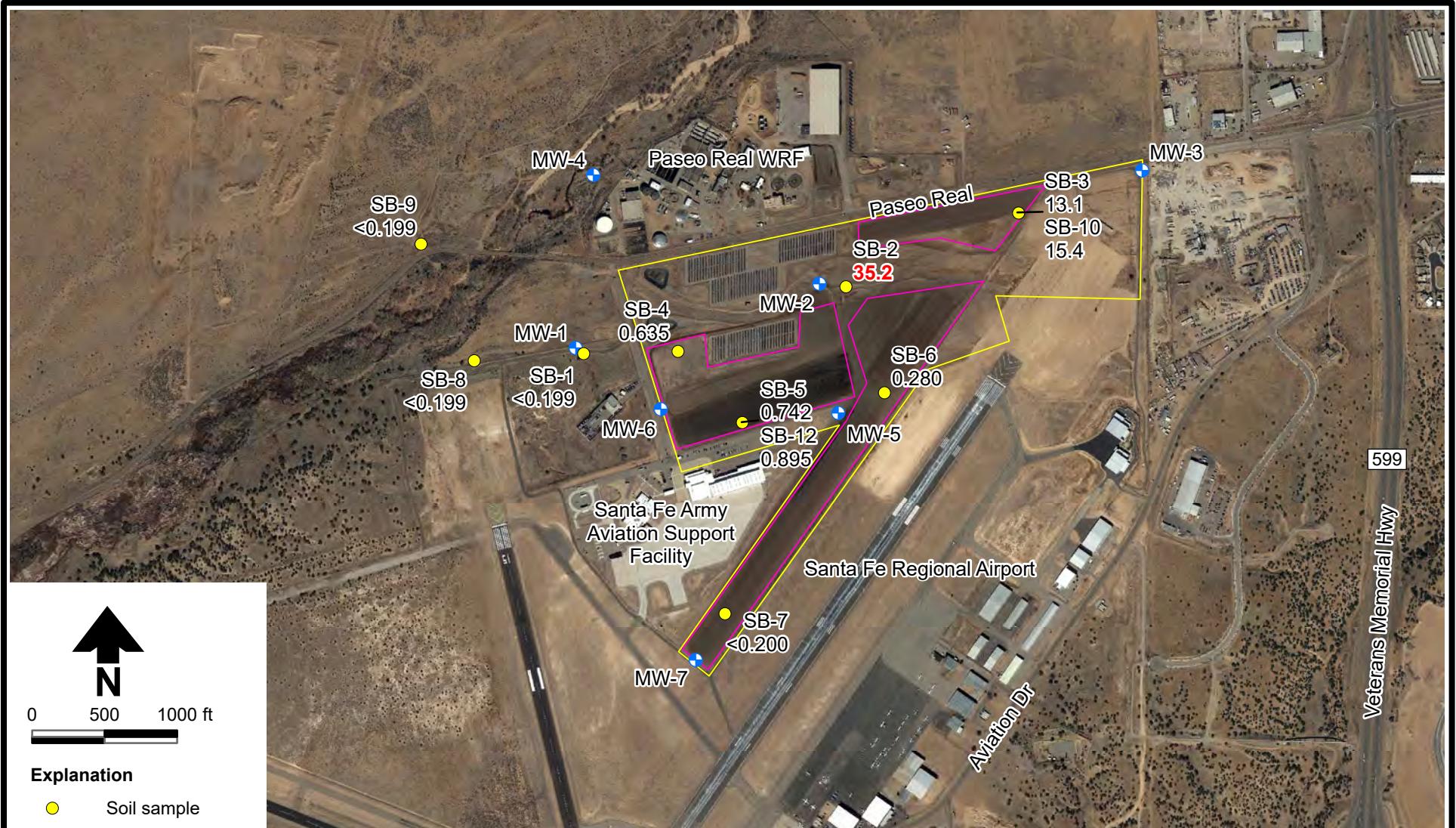
Notes:

- All concentrations reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$)
- Bold** indicates concentrations that exceed the NMED Soil Screening Levels (Cw, DAF 20)

Base image source: Google Earth Pro, March 2021

CITY OF SANTA FE
PASEO REAL WATER RECLAMATION FACILITY
PFHxS Concentrations in Soil at 1 to 2 feet bgs
July 3, 2024

Figure 4



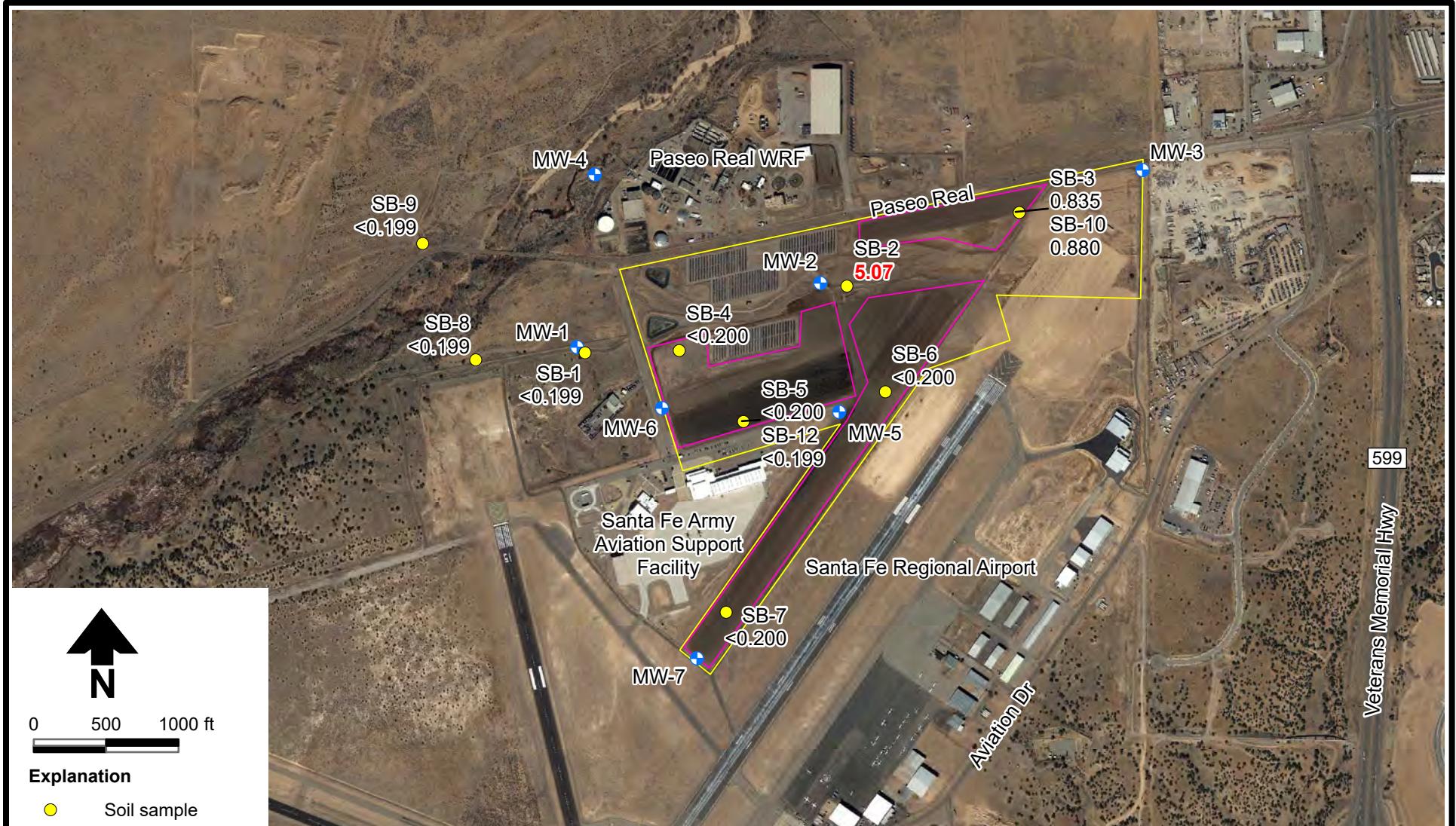
Base image source: Google Earth Pro, March 2021

Notes:

1. All concentrations reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$)
2. **Bold** indicates concentrations that exceed the NMED Soil Screening Levels (Cw, DAF 20)

CITY OF SANTA FE
PASEO REAL WATER RECLAMATION FACILITY
PFOA Concentrations in Soil at 1 to 2 feet bgs
July 3, 2024

Figure 5



Notes:

- All concentrations reported in micrograms per kilogram ($\mu\text{g}/\text{kg}$)
- Bold** indicates concentrations that exceed the NMED Soil Screening Levels (Cw, DAF 20)

CITY OF SANTA FE
PASEO REAL WATER RECLAMATION FACILITY
PFNA Concentrations in Soil at 1 to 2 feet bgs
July 3, 2024

Figure 6



Tables

Table 1. PFAS Target Analytes

Analyte Name	Acronym
Perfluorobutanoic acid	PFBA
Perfluoropentanoic acid	PPPeA
Perfluorobutane sulfonic acid	PFBS
Perfluorohexanoic acid	PFHxA
Perfluoropentanesulfonic acid	PPPeS
Perfluoroheptanoic acid	PFHpA
Perfluorohexane sulfonic acid	PFHxS
6:2 Fluorotelomer sulfonic acid	6:2 FTS
Perfluoroctanoic acid	PFOA
Perfluoroheptanesulfonic acid	PFHpS
Perfluorononanoic acid	PFNA
Perfluoroictabesylfonamide	PFOSA
Perfluorooctane sulfonic acid	PFOS
Perfluorodecanoic acid	PFDA
8:2 Fluorotelomer sulfonic acid	8:2 FTS
Perfluorononanesulfonic acid	PFNS
N-methyl perfluorooctanesulfonamido acetic acid	MeFOSAA
N-ethyl perfluorooctanesulfonamido acetic acid	EtFOSAA
Perfluoroundecanoic acid	PFUnA
Perfluorodecanesulfonic acid	PFDS
Perfluorododecanoic acid	PFDoA
N-Methylperfluorooctane sulfonamide	MeFOSA
Perfluorotridecanoic acid	PFTrDA
Perfluorotetradecanoic acid	PFTeDA
N-Ethylperfluorooctane sulfonamide	EtFOSA
N-Methylperfluorooctane sulfonamide	MeFOSE
N-Ethylperfluorooctane sulfonamido ethanol	EtFOSE

Table 2. Soil Sample Locations

Sample ID	Latitude (DD)	Longitude (DD)	Location Description
SB-1	35.62768	-106.08961	Near MW-1, where PFAS were detected during August 2023 groundwater sampling
SB-2	35.62894	-106.08352	Near former sludge injection stand pipe location
SB-3 and SB-10	35.63033	-106.07951	Former land application area 1
SB-4	35.62772	-106.08742	Former land application area, undisturbed for over 10 years
SB-5 and SB-12	35.62637	-106.08593	Former land application area 4, adjacent to ARNG facility
SB-6	35.62693	-106.08263	Former land application area 3
SB-7 and SB-11	35.62275	-106.08634	Southwest extent of the PRWRF, south of the ARNG facility
SB-8	35.62755	-106.09215	Near arroyo west of and adjacent to the former land application area
SB-9	35.62976	-106.09338	Off-site, outside of the historical sludge disposal area, away from development

All coordinates collected with a hand-held global positioning system (GPS) unit using World Geodetic System (WGS84) global reference system.

DD = Decimal degrees

ARNG = Army National Guard

Table 3. Soil Analytical Results

Analyte ^a	Concentration (µg/kg)												
	NMED SSL ^b	SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-8	SB-9	SB-10 (SB-3 Dup)	SB-11 (SB-7 Dup)	SB-12 (SB-5 Dup)
<i>Sample Depth (feet)</i>	2	2	2	2	2	2	0–0.5	2	2	1	2	0–0.5	2
<i>Sample Date</i>	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024	7/3/2024
PFBA	None	<0.798	0.994	1.13	<0.800	<0.800	<0.800	6.01	<0.801	<0.798	<0.797	0.970	5.76
PFPeA	None	<0.397	2.48	2.07	1.07	2.12	0.734	17.1	1.39	<0.398	<0.397	1.72	15.8
PFBS	20.9	<0.176	3.99	1.88	0.235	0.909	<0.177	20.2	0.945	<0.176	<0.176	1.69	18.6
PFHxA	None	<0.199	4.36	2.80	2.06	4.39	0.477	23.8	1.45	<0.199	<0.199	2.40	22.7
PFPeS	None	<0.187	0.465	<0.188	<0.188	0.399	<0.188	0.207	<0.188	<0.187	<0.187	0.195	0.417
PFHpA	None	<0.199	6.53	2.28	0.695	2.97	<0.200	7.67	<0.200	<0.199	<0.199	2.42	7.21
PFHxS	1.39	<0.182	5.55	1.53	<0.183	0.225	<0.183	3.75	<0.183	<0.182	<0.182	1.69	3.39
6:2 FTS	None	<0.756	<0.758	<0.758	<0.758	<0.758	<0.758	3.28	<0.759	<0.756	<0.755	<0.756	2.88
PFOA	18.3	<0.199	35.2	13.1	0.635	0.742	0.280	33.3	<0.200	<0.199	<0.199	15.4	30.4
PFHpS	None	<0.189	1.51	<0.190	<0.190	<0.190	<0.190	0.343	<0.190	<0.189	<0.189	0.193	0.355
PFNA	5.02	<0.199	5.07	0.835	<0.200	<0.200	<0.200	15.8	<0.200	<0.199	<0.199	0.880	15.4
PFOSA	None	<0.199	6.93	0.521	<0.200	<0.200	<0.200	2.81	<0.200	<0.199	<0.199	0.548	2.59
PFOS	0.209	<0.185	119	6.57	1.46	0.663	0.464	30.7	<0.186	<0.185	<0.185	7.87	26.6
PFDA	None	<0.199	11.6	0.742	<0.200	0.237	<0.200	28.2	<0.200	<0.199	<0.199	0.834	26.6
8:2 FTS	None	<0.765	<0.767	<0.767	<0.767	<0.767	<0.767	3.74	<0.768	<0.765	<0.764	<0.765	3.74
PFNS	None	<0.191	0.362	<0.192	<0.192	<0.192	<0.192	<0.191	<0.192	<0.191	<0.191	<0.191	<0.191
MeFOSAA	None	<0.199	14.2	0.320	<0.200	<0.200	<0.200	24.8	<0.200	<0.199	<0.199	0.415	24.0
EtFOSAA	None	<0.199	31.7	0.766	0.587	<0.200	<0.200	10.4	<0.200	<0.199	<0.199	0.938	9.39
PFUnA	None	<0.199	1.56	<0.200	<0.200	<0.200	<0.200	6.51	<0.200	<0.199	<0.199	<0.199	5.83
PFDS	None	<0.192	27.7	0.486	0.362	<0.193	<0.193	4.35	<0.193	<0.192	<0.192	0.546	4.01
PFDoA	None	<0.199	4.34	<0.200	<0.200	<0.200	<0.200	9.28	<0.200	<0.199	<0.199	<0.199	8.57
MeFOSA	None	<0.199	0.413	<0.200	<0.200	<0.200	<0.200	<0.199	<0.200	<0.199	<0.199	<0.200	<0.199
PFTrDA	None	<0.199	0.432	<0.200	<0.200	<0.200	<0.200	1.25	<0.200	<0.199	<0.199	<0.199	1.21
PFTeDA	None	<0.199	1.26	<0.200	<0.200	<0.200	<0.200	2.26	<0.200	<0.199	<0.199	<0.199	2.08
EtFOSA	None	<0.199	0.289	<0.200	<0.200	<0.200	<0.200	<0.199	<0.200	<0.199	<0.199	<0.200	<0.199
MeFOSE	None	<1.99	3.25	<2.00	<2.00	<2.00	<2.00	3.88	<2.00	<1.99	<1.99	<1.99	3.61
EtFOSE	None	<1.99	<2.00	<2.00	<2.00	<2.00	<2.00	2.04	<2.00	<1.99	<1.99	<1.99	2.12

Bold indicates that value exceeds the New Mexico Environment Department (NMED) soil screening level (SSL).

^a Table only lists analytes with detections during the July 3, 2024 soil sampling event.

^b NMED SSL of C_w dilution attenuation factor (DAF) 20 (NMED, 2022).

µg/kg = Micrograms per kilogram

Dup = Duplicate

Attachment 1

Field Notes

7/3/24

J. FISKE

- 110 Onsite @ PASCO Plat WRF to sign in & pick up keys.
- 115 @ SB-3.
 $35^{\circ} 6' 30.33'' N$
 $106^{\circ} 0' 07.951'' W$
- 1200 SB-3 ADVANCED TO 2.0'. Decon Hand Auger.
- 1210 COLLECT SB-3 @ 2.0' + DUPLICATE SAMPLE (SB-10 @ 2.0').
 Decon Hand Auger. Move to SB-2.
 SB-3 MATERIAL?
 Dark Brown, 10YR 3/3, Silty Sand w/ Clay, Fine Grained Sand, Plastic when wet, turns to sand, moist to very moist, no odor.
- 1235 @ SB-2. $35^{\circ} 6' 28.94'' N$
 $106^{\circ} 0' 08.352'' W$
- 1240 ADVANCED TO 2.0'. Decon Hand Auger.
- 1245 COLLECT SB-2 @ 2.0'.
 Material is silty sand w/ gravel, ^{Brown 10YR 6/4} light yellowish red, 10-20x smoother to subangular Gravels up to $\frac{3}{4}$ ", Mod. well grained, loamy, non plastic when wet, damp, no odor.
- 1255 Move to SB-6. (Borings broken up w/)

7/3/24

F

- CUTTINGS + BENTONITE @ SURFACE)
- 1339 SB-6 COORDS:
 $35^{\circ} 6' 26.93'' N$
 $106^{\circ} 0' 08.263'' W$
- ADVANCED BORING TO 2.0' AUGER DECOMPOSED.
- 1340 COLLECT SB-6 @ 2.0'.
 LIGHT YELLOWISH BROWN (10YR 6/4), SILTY SAND, Fine Grained Sand, poorly Grained, SL. PLASTIC WHEN WET, ST. SUBANGULAR GRAVELS UP TO $\frac{1}{2}$ " LOOSE, DAMP, NO ODOUR Decon Hand Auger.
- 1355 COLLECT EQUIPMENT RINSATE SAMPLE.
- 1403 @ SB-7. $35^{\circ} 6' 27.75'' N$
 $106^{\circ} 0' 08.634'' W$
- 1410 COLLECT SURFACE MATERIAL SAMPLE SB-7 @ 0'-0.5' + DUPLICATE SAMPLE (SB-11 @ 0-0.5')
- 1423 Advanced SB-7 to 2.0'. Decon Hand Auger. Material is same as SB-6 @ 2.
- 1430 COLLECT SB-7 @ 2.0'
- 1435 Decon Hand Auger. Move to SB-5.
- 1437 @ SB-5. $35^{\circ} 6' 26.37'' N$
 $106^{\circ} 0' 08.593'' W$
- 1450 SB-5 Advanced to 2.0'. Decon Auger
- 1500 COLLECT SB-5 @ 2.0' + DUP
 (SB-12 @ 2.0')

7/3/24

1500 hours MUDMUL IS THE SAME AS SB-6 & SB-7. DECON AUGER - MOVE TO SB-4.

1510 @ SB-4. 35.62772°N
106.08742°W.

ADVANCE HAND AUGER TO 2.0'

1515 DECON HAND AUGER

1520 COLLECT SB-4 @ 2.0'

BROWN (7.5 YR 4/4), SILTY SAND
w/ CLAY, FINE (GRANULAR) SAND,
POORLY GRADED, LOOSE, PLASTIC
WHEN WET, DAMP, NO ODOR

1535 @ SB-1, 35.62768°N
106.08961°W

ADVANCE BORING TO 2.0'.

1540 DECON HAND AUGER -

1550 COLLECT SB-1 @ 2.0'

SILTY SAND, LIGHT BROWN (7.5 YR 6/4),
FINE GRAINED, POORLY GRADED,
NON-PLOSTIC WHEN WET, 10%
GROBBLER GRAVELS UP TO 3 1/4",
DRY, NO ODOR

1610 @ SB-8. 35.62755°N
106.09215°W.

ADVANCE BORING TO 2.0',

F

7/3/24

1620 DECON AUGER.

1630 COLLECT SAMPLE SB-8 @ 2.0'.

MARIN HENS TO LIB & SIGN OUT
@ PRECIP NEAR WLF.

1650 @ SB-9 SB-8 @ 2.0' DESCRIPTION:

SILTY SAND SIMILAR TO SB-1, BUT 25% SURROUND
GRAVELS UP TO 1 1/2".

1650 @ SB-9. 35.62976°N

106.09338°W

1715 REFUGEL 3rd TIMES @ ~ 1.5'.
WE HAVE TO COLLECT SAMPLE
FROM 1.0' - 1.5'.

ADVANCE NEW BORING TO 1.0'.

1730 DECON AUGER

1740 COLLECT SB-9 @ 1.0'

MUDMUL IS GRANULAR SAND &
COBBLES, LITTLE FINES, WHEN GRADED,
50% SURROUND GRAVELS & COBBLES UP
TO 4", DRY, NO ODOR

1755 OFF SITE

~~7/3/24~~

Attachment 2

Laboratory
Analytical Report



July 24, 2024

Enthalpy Analytical - El Dorado Hills

Work Order No. 2407083

Ms. Amy Ewing
Hazen & Sawyer
100 Sun Ave NE, Ste 206
Albuquerque, NM 87109

Dear Ms. Ewing,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on July 10, 2024 under your Project Name 'DB24.1212.00 P1T1'.

Enthalpy Analytical - EDH is committed to serving you effectively. If you require additional information, please contact me at 916-673-1520 or by email at emilyuebelhoer@enthalpy.com.

Thank you for choosing Enthalpy Analytical - EDH as part of your analytical support team.

Sincerely,

A handwritten signature in black ink that reads "Emily Uebelhoer".

Emily Uebelhoer
Project Manager

Enthalpy Analytical - EDH certifies that the report herein meets all the requirements set forth by NELAP for those applicable test methods. Results relate only to the samples as received by the laboratory. This report should not be reproduced except in full without the written approval of Enthalpy Analytical - EDH.

Enthalpy Analytical - EDH Work Order No. 2407083
Case Narrative

Sample Condition on Receipt:

Thirteen soil samples and one aqueous sample were received and stored securely in accordance with Enthalpy Analytical - EDH standard operating procedures and EPA methodology. The samples were received in good condition and within the method temperature requirements. A sample time discrepancy was noted for sample "SB-12@2.0" between the container label and the Chain-of-Custody (CoC). The sample time has been reported as listed on the CoC. The sample matrices were not documented on the Chain-of-Custody (CoC). Sample "Equipment Blank" was reported as aqueous while all others were reported as soil. Due to limitations of the lab's LIMS system, apostrophe symbols could not be included in the sample IDs.

Analytical Notes:

EPA Method 1633 (Solid)

The samples were extracted and analyzed for a selected list of PFAS using EPA Method 1633. The results for PFHxS, PFOA, PFOSA, PFOS, PFNA, MeFOSAA, EtFOSAA, MeFOSA, MeFOSE, EtFOSA, EtFOSE include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The samples were extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank, Ongoing Precision and Recovery (OPR) sample, and Low-Level OPR sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

An MS/MSD was performed on sample "SB-9@1.0". The MS/MSD recoveries and RPDs outside the acceptance criteria are flagged with an "Q" qualifier.

The ion transition ratios outside the acceptance criteria are flagged with an "I" qualifier.

The labeled standard recoveries outside the acceptance criteria are flagged with an "Q" qualifier. The responses of the internal standards with low recoveries were greater than 10:1 signal-to-noise, which is the limit generally considered acceptable for accurate quantitation by isotope dilution analysis.

EPA Method 1633 (Aqueous)

The sample was extracted and analyzed for a selected list of PFAS using EPA Method 1633. The results for PFHxS, PFOA, PFOSA, PFOS, PFNA, MeFOSAA, EtFOSAA, MeFOSA, MeFOSE, EtFOSA, EtFOSE include both linear and branched isomers. Results for all other analytes include the linear isomers only.

Holding Times

The sample was extracted and analyzed within the hold times.

Quality Control

The Initial Calibration and Continuing Calibration Verifications met the method acceptance criteria.

A Method Blank, Ongoing Precision and Recovery (OPR) sample, and Low-Level OPR sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above the Reporting Limit. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries for all QC and field samples were within the acceptance criteria.

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Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2407083-01	SB-3@2.0	03-Jul-24 12:10	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-02	SB-10@2.0	03-Jul-24 12:20	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-03	SB-2@2.0	03-Jul-24 12:45	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-04	SB-6@2.0	03-Jul-24 13:40	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-05	Equipment Blank	03-Jul-24 13:55	10-Jul-24 09:20	HDPE Bottle, 500 mL HDPE Bottle, 500 mL
2407083-06	SB-7@0-0.5	03-Jul-24 14:10	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-07	SB-11@0-0.5	03-Jul-24 14:20	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-08	SB-7@2.0	03-Jul-24 14:30	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-09	SB-5@2.0	03-Jul-24 15:00	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-10	SB-12@2.0	03-Jul-24 15:10	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-11	SB-4@2.0	03-Jul-24 15:20	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-12	SB-1@2.0	03-Jul-24 15:50	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-13	SB-8@2.0	03-Jul-24 16:30	10-Jul-24 09:20	HDPE Jar, 6 oz
2407083-14	SB-9@1.0	03-Jul-24 17:40	10-Jul-24 09:20	HDPE Jar, 6 oz

ANALYTICAL RESULTS

Sample ID: Method Blank
EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Solid	Lab Sample:	B24G098-BLK1	Column:	BEH C18			
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
PFBA	ND	0.801		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFMPA	ND	0.400		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
3:3 FTCA	ND	1.00		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFPeA	ND	0.399		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFMBA	ND	0.400		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFBS	ND	0.177		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
4:2 FTS	ND	0.750		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFHxA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFEESA	ND	0.356		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFPeS	ND	0.188		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
HFPO-DA	ND	0.835		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
NFDHA	ND	0.400		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
5:3 FTCA	ND	5.00		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFHpA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
ADONA	ND	0.790		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFHxS	ND	0.183		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
6:2 FTS	ND	0.759		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFOA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFhPs	ND	0.190		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
7:3 FTCA	ND	5.00		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFNA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFOSA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFOS	ND	0.186		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
9Cl-PF3ONS	ND	0.780		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFDA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
8:2 FTS	ND	0.768		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFNS	ND	0.192		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
MeFOSAA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
EtFOSAA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFUnA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFDS	ND	0.193		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
11Cl-PF3OUdS	ND	0.790		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFDoA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
MeFOSA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFTrDA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFDoS	ND	0.194		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
PFTeDA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		
EtFOSA	ND	0.200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1		

Sample ID: Method Blank
EPA Method 1633

Client Data				Laboratory Data						
Name:	Hazen & Sawyer	Matrix:	Solid	Lab Sample:		B24G098-BLK1	Column:	BEH C18		
Project:	DB24.1212.00 P1T1									
Analyte		Conc. (ng/g)		RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE		ND		2.00		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1
EtFOSE		ND		2.00		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	99.9	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C5-PFPcA	IS	102	35 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C2-4:2 FTS	IS	122	40 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C3-PFBS	IS	115	40 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C5-PFHxA	IS	95.3	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C4-PFHxA	IS	97.9	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C3-HFPO-DA	IS	99.5	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C2-6:2 FTS	IS	106	40 - 215		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C8-PFOA	IS	90.6	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C3-PFHxS	IS	110	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C9-PFNA	IS	104	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C2-8:2 FTS	IS	123	40 - 275		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C6-PFDA	IS	93.5	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
d3-MeFOSAA	IS	101	40 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C8-PFOS	IS	100	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
d5-EtFOSAA	IS	104	40 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C7-PFUnA	IS	109	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C8-PFOSA	IS	83.5	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C2-PFDmA	IS	77.7	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
13C2-PFTeDA	IS	90.6	20 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
d7-MeFOSE	IS	37.5	20 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
d3-MeFOSA	IS	55.9	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
d9-EtFOSE	IS	32.3	15 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	
d5-EtFOSA	IS	38.6	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:00	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: OPR
EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer	Matrix:	Solid	Lab Sample:	B24G098-BS1		Column:	BEH C18			
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	2.24	2.00	112	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFMPA	1.16	1.00	116	30 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
3:3 FTCA	2.68	2.50	107	45 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFPeA	1.14	1.00	114	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFMBA	1.12	1.00	112	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFBS	0.499	0.444	112	65 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
4:2 FTS	2.19	1.88	117	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFHxA	0.626	0.500	125	65 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFEESA	1.14	0.888	128	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFPeS	0.490	0.472	104	55 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
HFPO-DA	2.25	2.12	107	70 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
NFDHA	1.27	1.00	127	60 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
5:3 FTCA	12.7	12.5	102	60 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFHpA	0.557	0.500	111	65 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
ADONA	2.14	2.00	107	70 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFHxS	0.507	0.456	111	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
6:2 FTS	2.19	1.90	115	55 - 200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFOA	0.675	0.500	135	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFHpS	0.490	0.476	103	65 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
7:3 FTCA	12.2	12.5	98.0	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFNA	0.709	0.500	142	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFOSA	0.552	0.500	110	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFOS	0.526	0.464	113	65 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
9Cl-PF3ONS	2.24	1.98	113	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFDA	0.543	0.500	109	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
8:2 FTS	2.13	1.92	111	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFNS	0.534	0.480	111	55 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
MeFOSAA	0.525	0.500	105	65 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
EtFOSAA	0.614	0.500	123	65 - 165		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFUnA	0.489	0.500	97.8	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFDS	0.501	0.484	104	40 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
11Cl-PF3OUdS	2.12	2.00	106	45 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFDoA	0.524	0.500	105	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
MeFOSA	0.510	0.500	102	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	

Sample ID: OPR

EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer	Matrix:	Solid	Lab Sample:		B24G098-BS1		Column:	BEH C18		
Project:	DB24.1212.00 P1T1										
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFTrDA	0.598	0.500	120	65 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFDoS	0.473	0.484	97.7	25 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
PFTeDA	0.615	0.500	123	65 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
EtFOSA	0.612	0.500	122	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
MeFOSE	5.10	5.00	102	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
EtFOSE	5.69	5.00	114	70 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1	
Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C4-PFBA	IS	97.6	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C5-PFPeA	IS	102	35 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C2-4:2 FTS	IS	103	40 - 165		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C3-PFBS	IS	97.5	40 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C5-PFHxA	IS	88.8	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C4-PFHxA	IS	96.8	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C3-HFPO-DA	IS	93.5	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C2-6:2 FTS	IS	97.5	40 - 215		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C8-PFOA	IS	91.8	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C3-PFHxS	IS	96.7	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C9-PFNA	IS	93.5	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C2-8:2 FTS	IS	95.1	40 - 275		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C6-PFDA	IS	90.2	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
d3-MeFOSAA	IS	109	40 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C8-PFOS	IS	95.2	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
d5-EtFOSAA	IS	102	40 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C7-PFUnA	IS	109	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C8-PFOSA	IS	80.8	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C2-PFDoA	IS	92.2	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
13C2-PFTeDA	IS	84.8	20 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
d7-MeFOSE	IS	40.9	20 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
d3-MeFOSA	IS	57.7	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
d9-EtFOSE	IS	34.2	15 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		
d5-EtFOSA	IS	39.2	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:13	1		

Sample ID: OPR
EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer	Matrix:	Solid	Lab Sample:	B24G098-BS2		Column:	BEH C18			
Analyte		Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA		1.57	1.60	98.4	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFMPA		0.798	0.800	99.8	30 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
3:3 FTCA		1.92	2.00	96.0	45 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFPeA		0.799	0.800	99.9	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFMBA		0.757	0.800	94.6	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFBS		0.345	0.355	97.2	65 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
4:2 FTS		1.44	1.50	96.1	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFHxA		0.370	0.400	92.5	65 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFEESA		0.715	0.712	100	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFPeS		0.334	0.376	88.7	55 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
HFPO-DA		1.59	1.60	99.5	70 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
NFDHA		0.742	0.800	92.8	60 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
5:3 FTCA		8.74	10.0	87.4	60 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFHpA		0.407	0.400	102	65 - 145		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
ADONA		1.48	1.51	98.1	70 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFHxS		0.371	0.366	101	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
6:2 FTS		1.51	1.52	99.6	55 - 200		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFOA		0.474	0.400	119	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFHpS		0.357	0.381	93.7	65 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
7:3 FTCA		7.72	10.0	77.2	60 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFNA		0.461	0.400	115	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFOSA		0.374	0.400	93.5	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFOS		0.413	0.371	111	65 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
9Cl-PF3ONS		1.63	1.50	109	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFDA		0.388	0.400	97.0	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
8:2 FTS		1.38	1.54	89.5	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFNS		0.405	0.385	105	55 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
MeFOSAA		0.417	0.400	104	65 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
EtFOSAA		0.352	0.400	88.0	65 - 165		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFUnA		0.379	0.400	94.8	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFDS		0.369	0.386	95.6	40 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
11Cl-PF3OUdS		1.46	1.51	96.8	45 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
PFDoA		0.393	0.400	98.3	70 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1
MeFOSA		0.397	0.400	99.3	70 - 155		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1

Sample ID: OPR
EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer	Matrix:	Solid	Lab Sample:		B24G098-BS2		Column:	BEH C18		
Project:	DB24.1212.00 P1T1										
Analyte	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFTrDA	0.405	0.400	101	65 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1	
PFDoS	0.318	0.388	82.0	25 - 160		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1	
PFTeDA	0.418	0.400	105	65 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1	
EtFOSA	0.486	0.400	122	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1	
MeFOSE	3.82	4.00	95.5	70 - 140		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1	
EtFOSE	4.13	4.00	103	70 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1	
Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C4-PFBA	IS	104	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C5-PFPeA	IS	101	35 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C2-4:2 FTS	IS	116	40 - 165		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C3-PFBS	IS	106	40 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C5-PFHxA	IS	97.9	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C4-PFHxA	IS	95.9	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C3-HFPO-DA	IS	93.3	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C2-6:2 FTS	IS	105	40 - 215		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C8-PFOA	IS	102	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C3-PFHxS	IS	106	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C9-PFNA	IS	102	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C2-8:2 FTS	IS	114	40 - 275		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C6-PFDA	IS	99.9	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
d3-MeFOSAA	IS	112	40 - 135		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C8-PFOS	IS	101	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
d5-EtFOSAA	IS	116	40 - 150		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C7-PFUnA	IS	110	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C8-PFOSA	IS	89.1	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C2-PFDoA	IS	94.2	40 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
13C2-PFTeDA	IS	84.6	20 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
d7-MeFOSE	IS	27.8	20 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
d3-MeFOSA	IS	38.4	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
d9-EtFOSE	IS	21.2	15 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		
d5-EtFOSA	IS	20.8	10 - 130		B24G098	15-Jul-24	5.00 g	17-Jul-24 11:27	1		

Sample ID: SB-3@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-01	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 12:10	Date Received:	10-Jul-24 09:20	% Solids:	80.2		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	1.13	0.799		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFMPA	ND	0.399		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
3:3 FTCA	ND	0.998		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFPeA	2.07	0.398		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFMBA	ND	0.399		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFBS	1.88	0.177		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
4:2 FTS	ND	0.749		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFHxA	2.80	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFEESA	ND	0.355		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFPeS	ND	0.188		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
HFPO-DA	ND	0.833		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
NFDHA	ND	0.399		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
5:3 FTCA	ND	4.99		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFHpA	2.28	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
ADONA	ND	0.789		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFHxS	1.53	0.183		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
6:2 FTS	ND	0.758		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFOA	13.1	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFHpS	ND	0.190		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
7:3 FTCA	ND	4.99		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFNA	0.835	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFOSA	0.521	0.200	I	B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFOS	6.57	0.186		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
9Cl-PF3ONS	ND	0.779		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFDA	0.742	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
8:2 FTS	ND	0.767		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFNS	ND	0.192		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
MeFOSAA	0.320	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
EtFOSAA	0.766	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFUnA	ND	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFDS	0.486	0.193		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
11Cl-PF3OUdS	ND	0.789		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFDoA	ND	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
MeFOSA	ND	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFTrDA	ND	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFDoS	ND	0.194		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
PFTeDA	ND	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	

Sample ID: SB-3@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample: 2407083-01				Column: BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 12:10	% Solids:	80.2					
Analyte		Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA		ND	0.200		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
MeFOSE		ND	2.00		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
EtFOSE		ND	2.00		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	102	10 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C5-PFPcA	IS	109	35 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C2-4:2 FTS	IS	112	40 - 135		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C3-PFBS	IS	110	40 - 135		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C5-PFHxA	IS	105	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C4-PFHpA	IS	108	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C3-HFPO-DA	IS	101	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C2-6:2 FTS	IS	106	40 - 215		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C8-PFOA	IS	104	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C3-PFHxS	IS	113	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C9-PFNA	IS	101	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C2-8:2 FTS	IS	97.5	40 - 275		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C6-PFDA	IS	94.7	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
d3-MeFOSAA	IS	98.7	40 - 135		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C8-PFOS	IS	108	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
d5-EtFOSAA	IS	105	40 - 150		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C7-PFUnA	IS	112	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C8-PFOSA	IS	83.6	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C2-PFDoA	IS	95.0	40 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
13C2-PFTeDA	IS	88.6	20 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
d7-MeFOSE	IS	43.1	20 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
d3-MEFOSA	IS	14.8	10 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
d9-EtFOSE	IS	37.0	15 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	
d5-EtFOSA	IS	10.6	10 - 130		B24G098	15-Jul-24	6.25 g	17-Jul-24 12:08	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-10@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-02	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 12:20	Date Received:	10-Jul-24 09:20	% Solids:	79.3		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	0.970	0.798		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFMPA	ND	0.399		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
3:3 FTCA	ND	0.996		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFPeA	1.72	0.398		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFMBA	ND	0.399		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFBS	1.69	0.176		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
4:2 FTS	ND	0.747		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFHxA	2.40	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFEESA	ND	0.355		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFPeS	ND	0.187		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
HFPO-DA	ND	0.832		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
NFDHA	ND	0.399		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
5:3 FTCA	ND	4.98		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFHpA	2.42	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
ADONA	ND	0.787		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFHxS	1.69	0.182		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
6:2 FTS	ND	0.756		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFOA	15.4	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFHpS	0.193	0.189		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
7:3 FTCA	ND	4.98		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFNA	0.880	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFOSA	0.548	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFOS	7.87	0.185		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
9Cl-PF3ONS	ND	0.777		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFDA	0.834	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
8:2 FTS	ND	0.765		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFNS	ND	0.191		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
MeFOSAA	0.415	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
EtFOSAA	0.938	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFUnA	ND	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFDS	0.546	0.192		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
11Cl-PF3OUdS	ND	0.787		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFDoA	ND	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
MeFOSA	ND	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFTrDA	ND	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFDoS	ND	0.193		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
PFTeDA	ND	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	

Sample ID: SB-10@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample: 2407083-02				Column: BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 12:20	% Solids:	79.3					
Analyte		Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA		ND	0.199		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
MeFOSE		ND	1.99		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
EtFOSE		ND	1.99		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	104	10 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C5-PFPcA	IS	106	35 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C2-4:2 FTS	IS	111	40 - 135		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C3-PFBS	IS	110	40 - 135		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C5-PFHxA	IS	96.8	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C4-PFHpA	IS	100	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C3-HFPO-DA	IS	100	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C2-6:2 FTS	IS	110	40 - 215		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C8-PFOA	IS	102	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C3-PFHxS	IS	108	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C9-PFNA	IS	112	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C2-8:2 FTS	IS	128	40 - 275		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C6-PFDA	IS	101	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
d3-MeFOSAA	IS	105	40 - 135		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C8-PFOS	IS	112	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
d5-EtFOSAA	IS	107	40 - 150		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C7-PFUnA	IS	114	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C8-PFOSA	IS	87.7	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C2-PFDoA	IS	95.0	40 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
13C2-PFTeDA	IS	94.8	20 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
d7-MeFOSE	IS	41.9	20 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
d3-MEFOSA	IS	14.1	10 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
d9-EtFOSE	IS	36.0	15 - 130		B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	
d5-EtFOSA	IS	8.99	10 - 130	Q	B24G098	15-Jul-24	6.33 g	17-Jul-24 12:21	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-2@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-03	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 12:45	Date Received:	10-Jul-24 09:20	% Solids:	78.6		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	0.994	0.800		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFMPA	ND	0.400		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
3:3 FTCA	ND	0.999		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFPeA	2.48	0.399		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFMBA	ND	0.400		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFBS	3.99	0.177		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
4:2 FTS	ND	0.749		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFHxA	4.36	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFEESA	ND	0.356		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFPeS	0.465	0.188		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
HFPO-DA	ND	0.834		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
NFDHA	ND	0.400		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
5:3 FTCA	ND	5.00		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFHpA	6.53	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
ADONA	ND	0.789		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFHxS	5.55	0.183		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
6:2 FTS	ND	0.758		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFOA	35.2	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFHpS	1.51	0.190		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
7:3 FTCA	ND	5.00		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFNA	5.07	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFOSA	6.93	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFOS	119	0.186		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
9Cl-PF3ONS	ND	0.779		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFDA	11.6	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
8:2 FTS	ND	0.767		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFNS	0.362	0.192		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
MeFOSAA	14.2	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
EtFOSAA	31.7	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFUnA	1.56	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFDS	27.7	0.193		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
11Cl-PF3OUdS	ND	0.789		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFDoA	4.34	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
MeFOSA	0.413	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFTrDA	0.432	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFDoS	ND	0.194		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
PFTeDA	1.26	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	

Sample ID: SB-2@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-03	Column:	BEH C18			
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 12:45	Date Received:	10-Jul-24 09:20	% Solids:	78.6			
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
EtFOSA	0.289	0.200		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1		
MeFOSE	3.25	2.00		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1		
EtFOSE	ND	2.00		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	101	10 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C5-PFPcA	IS	96.0	35 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C2-4:2 FTS	IS	122	40 - 135		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C3-PFBS	IS	112	40 - 135		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C5-PFHxA	IS	96.0	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C4-PFHpA	IS	93.1	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C3-HFPO-DA	IS	93.6	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C2-6:2 FTS	IS	113	40 - 215		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C8-PFOA	IS	107	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C3-PFHxS	IS	109	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C9-PFNA	IS	96.6	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C2-8:2 FTS	IS	144	40 - 275		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C6-PFDA	IS	106	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
d3-MeFOSAA	IS	86.3	40 - 135		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C8-PFOS	IS	97.6	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
d5-EtFOSAA	IS	104	40 - 150		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C7-PFUnA	IS	104	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C8-PFOSA	IS	76.0	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C2-PFDaA	IS	89.1	40 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
13C2-PFTeDA	IS	88.9	20 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
d7-MeFOSE	IS	55.9	20 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
d3-MEFOSA	IS	28.3	10 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
d9-EtFOSE	IS	60.6	15 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	
d5-EtFOSA	IS	21.5	10 - 130		B24G098	15-Jul-24	6.37 g	17-Jul-24 12:35	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-6@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-04	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 13:40	Date Received:	10-Jul-24 09:20	% Solids:	81.9		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.800		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFMPA	ND	0.400		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
3:3 FTCA	ND	0.999		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFPeA	0.734	0.399		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFMBA	ND	0.400		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFBS	ND	0.177		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
4:2 FTS	ND	0.749		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFHxA	0.477	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFEESA	ND	0.356		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFPeS	ND	0.188		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
HFPO-DA	ND	0.834		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
NFDHA	ND	0.400		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
5:3 FTCA	ND	5.00		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFHpA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
ADONA	ND	0.789		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFHxS	ND	0.183		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
6:2 FTS	ND	0.758		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFOA	0.280	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFHpS	ND	0.190		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
7:3 FTCA	ND	5.00		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFNA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFOSA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFOS	0.464	0.186		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
9Cl-PF3ONS	ND	0.779		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFDA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
8:2 FTS	ND	0.767		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFNS	ND	0.192		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
MeFOSAA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
EtFOSAA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFUnA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFDS	ND	0.193		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
11Cl-PF3OUdS	ND	0.789		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFDoA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
MeFOSA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFTrDA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFDoS	ND	0.194		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
PFTeDA	ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	

Sample ID: SB-6@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample: 2407083-04				Column: BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 13:40	% Solids:	81.9					
Analyte		Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA		ND	0.200		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
MeFOSE		ND	2.00		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
EtFOSE		ND	2.00		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	99.5	10 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C5-PFPcA	IS	114	35 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C2-4:2 FTS	IS	101	40 - 135		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C3-PFBS	IS	104	40 - 135		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C5-PFHxA	IS	109	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C4-PFHpA	IS	109	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C3-HFPO-DA	IS	101	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C2-6:2 FTS	IS	94.3	40 - 215		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C8-PFOA	IS	99.3	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C3-PFHxS	IS	104	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C9-PFNA	IS	95.1	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C2-8:2 FTS	IS	100	40 - 275		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C6-PFDA	IS	97.0	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
d3-MeFOSAA	IS	70.7	40 - 135		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C8-PFOS	IS	105	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
d5-EtFOSAA	IS	84.6	40 - 150		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C7-PFUnA	IS	106	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C8-PFOSA	IS	70.5	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C2-PFDaO	IS	79.7	40 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
13C2-PFTeDA	IS	89.3	20 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
d7-MeFOSE	IS	18.2	20 - 130	Q	B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
d3-MeFOSA	IS	7.30	10 - 130	Q	B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
d9-EtFOSE	IS	15.5	15 - 130		B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	
d5-EtFOSA	IS	4.91	10 - 130	Q	B24G098	15-Jul-24	6.11 g	17-Jul-24 12:48	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-7@0-0.5
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-06	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 14:10	Date Received:	10-Jul-24 09:20	% Solids:	52.3		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	6.01	0.798		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFMPA	ND	0.398		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
3:3 FTCA	ND	0.996		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFPeA	17.1	0.397		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFMBA	ND	0.398		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFBS	20.2	0.176		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
4:2 FTS	ND	0.747		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFHxA	23.8	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFEESA	ND	0.355		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFPeS	0.207	0.187		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
HFPO-DA	ND	0.832		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
NFDHA	ND	0.398		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
5:3 FTCA	ND	4.98		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFHpA	7.67	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
ADONA	ND	0.787		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFHxS	3.75	0.182		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
6:2 FTS	3.28	0.756		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFOA	33.3	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFHpS	0.343	0.189		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
7:3 FTCA	ND	4.98		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFNA	15.8	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFOSA	2.81	0.199	I	B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFOS	30.7	0.185		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
9Cl-PF3ONS	ND	0.777		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFDA	28.2	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
8:2 FTS	3.74	0.765		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFNS	ND	0.191		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
MeFOSAA	24.8	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
EtFOSAA	10.4	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFUnA	6.51	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFDS	4.35	0.192		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
11Cl-PF3OUdS	ND	0.787		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFDoA	9.28	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
MeFOSA	ND	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFTrDA	1.25	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFDoS	ND	0.193		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
PFTeDA	2.26	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	

Sample ID: SB-7@0-0.5

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-06	Column:	BEH C18			
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 14:10	Date Received:	10-Jul-24 09:20	% Solids:	52.3			
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
EtFOSA	ND	0.199		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1		
MeFOSE	3.88	1.99		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1		
EtFOSE	2.04	1.99		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	92.2	10 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C5-PFPcA	IS	79.4	35 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C2-4:2 FTS	IS	184	40 - 135	Q	B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C3-PFBS	IS	91.4	40 - 135		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C5-PFHxA	IS	98.1	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C4-PFHpA	IS	98.2	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C3-HFPO-DA	IS	84.0	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C2-6:2 FTS	IS	145	40 - 215		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C8-PFOA	IS	96.1	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C3-PFHxS	IS	98.4	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C9-PFNA	IS	99.7	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C2-8:2 FTS	IS	180	40 - 275		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C6-PFDA	IS	110	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
d3-MeFOSAA	IS	71.4	40 - 135		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C8-PFOS	IS	91.6	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
d5-EtFOSAA	IS	72.2	40 - 150		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C7-PFUnA	IS	66.8	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C8-PFOSA	IS	51.5	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C2-PFDaA	IS	70.4	40 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
13C2-PFTeDA	IS	72.6	20 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
d7-MeFOSE	IS	39.7	20 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
d3-MEFOSA	IS	11.2	10 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
d9-EtFOSE	IS	41.6	15 - 130		B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	
d5-EtFOSA	IS	8.67	10 - 130	Q	B24G098	15-Jul-24	9.60 g	17-Jul-24 13:02	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-11@0-0.5
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-07	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 14:20	Date Received:	10-Jul-24 09:20	% Solids:	53.8		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	5.76	0.801		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFMPA	ND	0.400		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
3:3 FTCA	ND	1.00		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFPeA	15.8	0.399		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFMBA	ND	0.400		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFBS	18.6	0.177		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
4:2 FTS	ND	0.750		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFHxA	22.7	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFEESA	ND	0.356		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFPeS	0.195	0.188		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
HFPO-DA	ND	0.835		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
NFDHA	ND	0.400		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
5:3 FTCA	ND	5.00		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFHpA	7.21	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
ADONA	ND	0.790		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFHxS	3.39	0.183		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
6:2 FTS	2.88	0.759		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFOA	30.4	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFHpS	0.355	0.190		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
7:3 FTCA	ND	5.00		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFNA	15.4	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFOSA	2.59	0.200	I	B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFOS	26.6	0.186		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
9Cl-PF3ONS	ND	0.780		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFDA	26.6	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
8:2 FTS	3.74	0.768		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFNS	ND	0.192		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
MeFOSAA	24.0	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
EtFOSAA	9.39	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFUnA	5.83	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFDS	4.01	0.193		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
11Cl-PF3OUdS	ND	0.790		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFDoA	8.57	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
MeFOSA	ND	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFTrDA	1.21	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFDoS	ND	0.194		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
PFTeDA	2.08	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	

Sample ID: SB-11@0-0.5

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-07	Column:	BEH C18			
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 14:20	Date Received:	10-Jul-24 09:20	% Solids:	53.8			
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
EtFOSA	ND	0.200		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1		
MeFOSE	3.61	2.00		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1		
EtFOSE	2.12	2.00		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	95.8	10 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C5-PFPcA	IS	83.6	35 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C2-4:2 FTS	IS	175	40 - 135	Q	B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C3-PFBS	IS	92.1	40 - 135		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C5-PFHxA	IS	101	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C4-PFHpA	IS	100	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C3-HFPO-DA	IS	89.3	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C2-6:2 FTS	IS	149	40 - 215		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C8-PFOA	IS	103	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C3-PFHxS	IS	97.6	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C9-PFNA	IS	97.3	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C2-8:2 FTS	IS	178	40 - 275		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C6-PFDA	IS	117	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
d3-MeFOSAA	IS	71.3	40 - 135		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C8-PFOS	IS	94.9	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
d5-EtFOSAA	IS	77.7	40 - 150		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C7-PFUnA	IS	72.3	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C8-PFOSA	IS	50.0	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C2-PFDaA	IS	79.1	40 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
13C2-PFTeDA	IS	80.3	20 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
d7-MeFOSE	IS	35.7	20 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
d3-MeFOSA	IS	9.40	10 - 130	Q	B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
d9-EtFOSE	IS	37.6	15 - 130		B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	
d5-EtFOSA	IS	7.65	10 - 130	Q	B24G098	15-Jul-24	9.29 g	17-Jul-24 13:15	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-7@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-08	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 14:30	Date Received:	10-Jul-24 09:20	% Solids:	86.4		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.801		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFMPA	ND	0.400		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
3:3 FTCA	ND	1.00		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFPeA	1.39	0.399		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFMBA	ND	0.400		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFBS	0.945	0.177		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
4:2 FTS	ND	0.750		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFHxA	1.45	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFEESA	ND	0.356		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFPeS	ND	0.188		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
HFPO-DA	ND	0.835		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
NFDHA	ND	0.400		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
5:3 FTCA	ND	5.00		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFHpA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
ADONA	ND	0.790		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFHxS	ND	0.183		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
6:2 FTS	ND	0.759		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFOA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFHpS	ND	0.190		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
7:3 FTCA	ND	5.00		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFNA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFOSA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFOS	ND	0.186		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
9Cl-PF3ONS	ND	0.780		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFDA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
8:2 FTS	ND	0.768		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFNS	ND	0.192		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
MeFOSAA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
EtFOSAA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFUnA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFDS	ND	0.193		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
11Cl-PF3OUdS	ND	0.790		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFDoA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
MeFOSA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFTrDA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFDoS	ND	0.194		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
PFTeDA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	

Sample ID: SB-7@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-08	Column:	BEH C18			
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 14:30	Date Received:	10-Jul-24 09:20	% Solids:	86.4			
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
EtFOSA	ND	0.200		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1		
MeFOSE	ND	2.00		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1		
EtFOSE	ND	2.00		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	91.2	10 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C5-PFPcA	IS	98.1	35 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C2-4:2 FTS	IS	108	40 - 135		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C3-PFBS	IS	106	40 - 135		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C5-PFHxA	IS	92.9	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C4-PFHpA	IS	94.6	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C3-HFPO-DA	IS	94.7	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C2-6:2 FTS	IS	101	40 - 215		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C8-PFOA	IS	90.0	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C3-PFHxS	IS	102	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C9-PFNA	IS	96.1	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C2-8:2 FTS	IS	107	40 - 275		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C6-PFDA	IS	96.8	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
d3-MeFOSAA	IS	67.8	40 - 135		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C8-PFOS	IS	98.0	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
d5-EtFOSAA	IS	93.8	40 - 150		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C7-PFUnA	IS	110	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C8-PFOSA	IS	75.4	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C2-PFDoA	IS	102	40 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
13C2-PFTeDA	IS	97.4	20 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
d7-MeFOSE	IS	46.1	20 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
d3-MEFOSA	IS	19.7	10 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
d9-EtFOSE	IS	48.2	15 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	
d5-EtFOSA	IS	14.6	10 - 130		B24G098	15-Jul-24	5.79 g	17-Jul-24 13:29	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-5@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-09	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:00	Date Received:	10-Jul-24 09:20	% Solids:	78.0		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.800		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFMPA	ND	0.399		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
3:3 FTCA	ND	0.999		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFPeA	2.12	0.398		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFMBA	ND	0.399		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFBS	0.909	0.177		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
4:2 FTS	ND	0.749		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFHxA	4.39	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFEESA	ND	0.355		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFPeS	0.399	0.188		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
HFPO-DA	ND	0.834		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
NFDHA	ND	0.399		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
5:3 FTCA	ND	4.99		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFHpA	2.97	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
ADONA	ND	0.789		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFHxS	0.225	0.183		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
6:2 FTS	ND	0.758		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFOA	0.742	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFHpS	ND	0.190		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
7:3 FTCA	ND	4.99		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFNA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFOSA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFOS	0.663	0.186		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
9Cl-PF3ONS	ND	0.779		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFDA	0.237	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
8:2 FTS	ND	0.767		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFNS	ND	0.192		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
MeFOSAA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
EtFOSAA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFUnA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFDS	ND	0.193		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
11Cl-PF3OUdS	ND	0.789		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFDoA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
MeFOSA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFTrDA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFDoS	ND	0.194		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
PFTeDA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	

Sample ID: SB-5@2.0

EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil				Lab Sample:	2407083-09	Column:
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:00				Date Received:	10-Jul-24 09:20	BEH C18
% Solids:		78.0							
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.200		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
MeFOSE	ND	2.00		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
EtFOSE	ND	2.00		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	98.0	10 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C5-PFPcA	IS	97.1	35 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C2-4:2 FTS	IS	101	40 - 135		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C3-PFBS	IS	112	40 - 135		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C5-PFHxA	IS	90.2	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C4-PFHpA	IS	97.9	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C3-HFPO-DA	IS	93.4	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C2-6:2 FTS	IS	96.0	40 - 215		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C8-PFOA	IS	99.1	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C3-PFHxS	IS	101	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C9-PFNA	IS	93.3	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C2-8:2 FTS	IS	114	40 - 275		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C6-PFDA	IS	97.5	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
d3-MeFOSAA	IS	77.9	40 - 135		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C8-PFOS	IS	100	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
d5-EtFOSAA	IS	87.4	40 - 150		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C7-PFUnA	IS	105	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C8-PFOSA	IS	71.3	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C2-PFDaA	IS	91.4	40 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
13C2-PFTeDA	IS	93.9	20 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
d7-MeFOSE	IS	25.5	20 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
d3-MeFOSA	IS	7.05	10 - 130	Q	B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
d9-EtFOSE	IS	24.8	15 - 130		B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1
d5-EtFOSA	IS	5.07	10 - 130	Q	B24G098	15-Jul-24	6.42 g	17-Jul-24 13:42	1

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-12@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-10	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:10	Date Received:	10-Jul-24 09:20	% Solids:	78.4		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.798		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFMPA	ND	0.398		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
3:3 FTCA	ND	0.996		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFPeA	2.46	0.397		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFMBA	ND	0.398		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFBS	1.06	0.176		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
4:2 FTS	ND	0.747		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFHxA	4.64	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFEESA	ND	0.355		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFPeS	0.417	0.187		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
HFPO-DA	ND	0.832		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
NFDHA	ND	0.398		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
5:3 FTCA	ND	4.98		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFHpA	3.30	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
ADONA	ND	0.787		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFHxS	0.254	0.182		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
6:2 FTS	ND	0.756		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFOA	0.895	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFHpS	ND	0.189		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
7:3 FTCA	ND	4.98		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFNA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFOSA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFOS	0.807	0.185		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
9Cl-PF3ONS	ND	0.777		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFDA	0.252	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
8:2 FTS	ND	0.765		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFNS	ND	0.191		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
MeFOSAA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
EtFOSAA	0.235	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFUnA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFDS	ND	0.192		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
11Cl-PF3OUdS	ND	0.787		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFDoA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
MeFOSA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFTrDA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFDoS	ND	0.193		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
PFTeDA	ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	

Sample ID: SB-12@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample: 2407083-10				Column: BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:10	% Solids:	78.4					
Analyte		Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA		ND	0.199		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
MeFOSE		ND	1.99		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
EtFOSE		ND	1.99		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	96.9	10 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C5-PFPcA	IS	90.4	35 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C2-4:2 FTS	IS	104	40 - 135		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C3-PFBS	IS	111	40 - 135		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C5-PFHxA	IS	87.9	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C4-PFHpA	IS	87.5	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C3-HFPO-DA	IS	85.9	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C2-6:2 FTS	IS	98.9	40 - 215		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C8-PFOA	IS	95.7	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C3-PFHxS	IS	100	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C9-PFNA	IS	92.3	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C2-8:2 FTS	IS	116	40 - 275		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C6-PFDA	IS	90.3	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
d3-MeFOSAA	IS	82.5	40 - 135		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C8-PFOS	IS	98.7	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
d5-EtFOSAA	IS	88.1	40 - 150		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C7-PFUnA	IS	101	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C8-PFOSA	IS	78.4	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C2-PFDoA	IS	85.8	40 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
13C2-PFTeDA	IS	85.3	20 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
d7-MeFOSE	IS	38.1	20 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
d3-MEFOSA	IS	16.1	10 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
d9-EtFOSE	IS	37.1	15 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	
d5-EtFOSA	IS	10.9	10 - 130		B24G098	15-Jul-24	6.40 g	17-Jul-24 13:56	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-4@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-11	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:20	Date Received:	10-Jul-24 09:20	% Solids:	80.2		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.800		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFMPA	ND	0.400		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
3:3 FTCA	ND	0.999		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFPeA	1.07	0.399		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFMBA	ND	0.400		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFBS	0.235	0.177		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
4:2 FTS	ND	0.749		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFHxA	2.06	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFEESA	ND	0.356		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFPeS	ND	0.188		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
HFPO-DA	ND	0.834		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
NFDHA	ND	0.400		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
5:3 FTCA	ND	4.99		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFHpA	0.695	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
ADONA	ND	0.789		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFHxS	ND	0.183		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
6:2 FTS	ND	0.758		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFOA	0.635	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFHpS	ND	0.190		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
7:3 FTCA	ND	4.99		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFNA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFOSA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFOS	1.46	0.186		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
9Cl-PF3ONS	ND	0.779		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFDA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
8:2 FTS	ND	0.767		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFNS	ND	0.192		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
MeFOSAA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
EtFOSAA	0.587	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFUnA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFDS	0.362	0.193		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
11Cl-PF3OUdS	ND	0.789		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFDoA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
MeFOSA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFTrDA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFDoS	ND	0.194		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
PFTeDA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	

Sample ID: SB-4@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-11	Column:	BEH C18			
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:20	Date Received:	10-Jul-24 09:20	% Solids:	80.2			
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
EtFOSA	ND	0.200		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1		
MeFOSE	ND	2.00		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1		
EtFOSE	ND	2.00		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	96.5	10 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C5-PFPcA	IS	93.4	35 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C2-4:2 FTS	IS	102	40 - 135		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C3-PFBS	IS	103	40 - 135		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C5-PFHxA	IS	84.3	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C4-PFHpA	IS	91.1	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C3-HFPO-DA	IS	86.2	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C2-6:2 FTS	IS	101	40 - 215		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C8-PFOA	IS	96.6	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C3-PFHxS	IS	102	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C9-PFNA	IS	89.5	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C2-8:2 FTS	IS	108	40 - 275		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C6-PFDA	IS	87.1	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
d3-MeFOSAA	IS	83.3	40 - 135		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C8-PFOS	IS	101	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
d5-EtFOSAA	IS	93.4	40 - 150		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C7-PFUnA	IS	101	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C8-PFOSA	IS	75.7	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C2-PFDoA	IS	79.2	40 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
13C2-PFTeDA	IS	87.0	20 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
d7-MeFOSE	IS	36.4	20 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
d3-MEFOSA	IS	15.2	10 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
d9-EtFOSE	IS	37.5	15 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	
d5-EtFOSA	IS	10.3	10 - 130		B24G098	15-Jul-24	6.24 g	17-Jul-24 19:07	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-1@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-12	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:50	Date Received:	10-Jul-24 09:20	% Solids:	87.3		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.798		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFMPA	ND	0.398		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
3:3 FTCA	ND	0.996		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFPeA	ND	0.397		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFMBA	ND	0.398		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFBS	ND	0.176		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
4:2 FTS	ND	0.747		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFHxA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFEESA	ND	0.355		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFPeS	ND	0.187		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
HFPO-DA	ND	0.832		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
NFDHA	ND	0.398		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
5:3 FTCA	ND	4.98		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFHpA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
ADONA	ND	0.787		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFHxS	ND	0.182		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
6:2 FTS	ND	0.756		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFOA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFHpS	ND	0.189		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
7:3 FTCA	ND	4.98		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFNA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFOSA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFOS	ND	0.185		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
9Cl-PF3ONS	ND	0.777		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFDA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
8:2 FTS	ND	0.765		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFNS	ND	0.191		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
MeFOSAA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
EtFOSAA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFUnA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFDS	ND	0.192		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
11Cl-PF3OUdS	ND	0.787		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFDoA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
MeFOSA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFTrDA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFDoS	ND	0.193		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
PFTeDA	ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	

Sample ID: SB-1@2.0

EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample: 2407083-12				Column: BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 15:50	% Solids:	87.3					
Analyte		Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA		ND	0.199		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
MeFOSE		ND	1.99		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
EtFOSE		ND	1.99		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	99.6	10 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C5-PFPcA	IS	95.2	35 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C2-4:2 FTS	IS	113	40 - 135		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C3-PFBS	IS	118	40 - 135		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C5-PFHxA	IS	98.7	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C4-PFHpA	IS	95.5	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C3-HFPO-DA	IS	90.1	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C2-6:2 FTS	IS	108	40 - 215		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C8-PFOA	IS	101	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C3-PFHxS	IS	109	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C9-PFNA	IS	98.8	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C2-8:2 FTS	IS	96.7	40 - 275		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C6-PFDA	IS	89.5	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
d3-MeFOSAA	IS	105	40 - 135		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C8-PFOS	IS	105	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
d5-EtFOSAA	IS	117	40 - 150		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C7-PFUnA	IS	110	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C8-PFOSA	IS	87.8	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C2-PFDoA	IS	99.7	40 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
13C2-PFTeDA	IS	95.2	20 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
d7-MeFOSE	IS	46.5	20 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
d3-MEFOSA	IS	33.2	10 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
d9-EtFOSE	IS	41.5	15 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	
d5-EtFOSA	IS	23.2	10 - 130		B24G098	15-Jul-24	5.75 g	17-Jul-24 15:17	1	

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-8@2.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-13	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 16:30	Date Received:	10-Jul-24 09:20	% Solids:	92.1		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.798		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFMPA	ND	0.399		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
3:3 FTCA	ND	0.996		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFPeA	ND	0.398		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFMBA	ND	0.399		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFBS	ND	0.176		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
4:2 FTS	ND	0.747		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFHxA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFEESA	ND	0.355		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFPeS	ND	0.187		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
HFPO-DA	ND	0.832		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
NFDHA	ND	0.399		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
5:3 FTCA	ND	4.98		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFHpA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
ADONA	ND	0.787		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFHxS	ND	0.182		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
6:2 FTS	ND	0.756		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFOA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFHpS	ND	0.189		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
7:3 FTCA	ND	4.98		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFNA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFOSA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFOS	ND	0.185		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
9Cl-PF3ONS	ND	0.777		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFDA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
8:2 FTS	ND	0.765		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFNS	ND	0.191		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
MeFOSAA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
EtFOSAA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFUnA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFDS	ND	0.192		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
11Cl-PF3OUdS	ND	0.787		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFDoA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
MeFOSA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFTrDA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFDoS	ND	0.193		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	
PFTeDA	ND	0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31	1	

Sample ID: SB-8@2.0

EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil				Lab Sample: 2407083-13		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 16:30				Column: BEH C18		
Analyte		Conc. (ng/g)		RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed
EtFOSA		ND		0.199		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
MeFOSE		ND		1.99		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
EtFOSE		ND		1.99		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
Labeled Standards		Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed
13C4-PFBA		IS	100	10 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C5-PFPcA		IS	100	35 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C2-4:2 FTS		IS	111	40 - 135		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C3-PFBS		IS	112	40 - 135		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C5-PFHxA		IS	90.3	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C4-PFHpA		IS	98.3	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C3-HFPO-DA		IS	95.1	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C2-6:2 FTS		IS	109	40 - 215		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C8-PFOA		IS	103	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C3-PFHxS		IS	114	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C9-PFNA		IS	104	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C2-8:2 FTS		IS	117	40 - 275		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C6-PFDA		IS	91.8	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
d3-MeFOSAA		IS	102	40 - 135		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C8-PFOS		IS	103	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
d5-EtFOSAA		IS	116	40 - 150		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C7-PFUnA		IS	111	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C8-PFOSA		IS	88.8	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C2-PFDoA		IS	90.2	40 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
13C2-PFTeDA		IS	88.7	20 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
d7-MeFOSE		IS	51.2	20 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
d3-MeFOSA		IS	36.4	10 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
d9-EtFOSE		IS	47.9	15 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31
d5-EtFOSA		IS	26.3	10 - 130		B24G098	15-Jul-24	5.45 g	17-Jul-24 15:31

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-9@1.0
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil	Lab Sample:	2407083-14	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 17:40	Date Received:	10-Jul-24 09:20	% Solids:	93.6		
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	0.797		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFMPA	ND	0.398		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
3:3 FTCA	ND	0.995		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFPeA	ND	0.397		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFMBA	ND	0.398		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFBS	ND	0.176		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
4:2 FTS	ND	0.746		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFHxA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFEESA	ND	0.354		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFPeS	ND	0.187		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
HFPO-DA	ND	0.831		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
NFDHA	ND	0.398		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
5:3 FTCA	ND	4.98		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFHpA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
ADONA	ND	0.786		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFHxS	ND	0.182		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
6:2 FTS	ND	0.755		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFOA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFHpS	ND	0.189		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
7:3 FTCA	ND	4.98		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFNA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFOSA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFOS	ND	0.185		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
9Cl-PF3ONS	ND	0.776		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFDA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
8:2 FTS	ND	0.764		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFNS	ND	0.191		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
MeFOSAA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
EtFOSAA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFUnA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFDS	ND	0.192		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
11Cl-PF3OUdS	ND	0.786		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFDoA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
MeFOSA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFTrDA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFDoS	ND	0.193		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
PFTeDA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	

Sample ID: SB-9@1.0

EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Soil				Lab Sample: 2407083-14		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 17:40				Column: BEH C18		
		% Solids: 93.6							
Analyte	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	ND	0.199		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
MeFOSE	ND	1.99		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
EtFOSE	ND	1.99		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	102	10 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C5-PFPcA	IS	101	35 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C2-4:2 FTS	IS	107	40 - 135		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C3-PFBS	IS	104	40 - 135		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C5-PFHxA	IS	95.0	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C4-PFHpA	IS	98.2	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C3-HFPO-DA	IS	89.6	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C2-6:2 FTS	IS	102	40 - 215		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C8-PFOA	IS	95.0	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C3-PFHxS	IS	101	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C9-PFNA	IS	102	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C2-8:2 FTS	IS	117	40 - 275		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C6-PFDA	IS	96.6	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
d3-MeFOSAA	IS	114	40 - 135		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C8-PFOS	IS	110	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
d5-EtFOSAA	IS	125	40 - 150		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C7-PFUnA	IS	107	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C8-PFOSA	IS	95.7	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C2-PFDaA	IS	84.1	40 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
13C2-PFTeDA	IS	86.9	20 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
d7-MeFOSE	IS	63.8	20 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
d3-MEFOSA	IS	57.4	10 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
d9-EtFOSE	IS	61.9	15 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1
d5-EtFOSA	IS	40.7	10 - 130		B24G098	15-Jul-24	5.37 g	17-Jul-24 15:44	1

RL - Reporting limit

The results are reported in dry weight.

The sample size is reported in wet weight.

Results reported to RL.

Sample ID: SB-9@1.0
EPA Method 1633

Name:	Hazen & Sawyer	Lab Sample: B24G098-MS1/B24G098-MSD1								Source Lab Sample: 2407083-14						
Project:	DB24.1212.00 P1T1	QC Batch: B24G098								Date Extracted: 15-Jul-24						
Matrix:	Solid	Samp Size: 5.37/5.37 g								Column: BEH C18						
Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
PFBA	ND	2.06	1.86	109		2.08	1.86	110	0.913		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFMPA	ND	1.08	0.931	116		1.10	0.931	118	1.71		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
3:3 FTCA	ND	2.34	2.33	100		2.29	2.33	98.3	1.71		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFPeA	ND	1.05	0.931	111		1.02	0.931	108	2.74		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFMBA	ND	1.06	0.931	114		1.06	0.931	114	0		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFBS	ND	0.456	0.413	109		0.471	0.413	113	3.6		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
4:2 FTS	ND	1.98	1.75	113		2.07	1.75	119	5.17		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFHxA	ND	0.534	0.466	110		0.550	0.466	113	2.69		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFEESA	ND	0.942	0.827	114		1.02	0.827	123	7.59		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFPeS	ND	0.443	0.439	101		0.429	0.439	97.7	3.32		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
HFPO-DA	ND	2.04	1.97	104		2.12	1.97	108	3.77		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
NFDHA	ND	0.933	0.931	100		1.06	0.931	114	13.1		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
5:3 FTCA	ND	10.2	11.6	88.3		11.5	11.6	99.5	11.9		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFHpA	ND	0.519	0.466	106		1.05	0.466	220	69.9	I, Q	40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
ADONA	ND	1.91	1.86	102		2.10	1.86	113	10.2		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFHxs	ND	0.438	0.425	101		0.454	0.425	105	3.88		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
6:2 FTS	ND	2.01	1.77	113		2.12	1.77	120	6.01		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFOA	ND	0.597	0.466	124		0.617	0.466	128	3.17		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFHps	ND	0.464	0.443	105		0.456	0.443	103	1.92		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
7:3 FTCA	ND	9.86	11.6	85.0		11.0	11.6	94.9	11		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFNA	ND	0.587	0.466	126		0.613	0.466	132	4.65		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFOSA	ND	0.489	0.466	105		0.512	0.466	110	4.65		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFOS	ND	0.530	0.432	113		0.523	0.432	112	0.889		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
9Cl-PF3ONS	ND	1.97	1.84	107		2.14	1.84	116	8.07		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFDA	ND	0.532	0.466	114		0.544	0.466	117	2.6		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
8:2 FTS	ND	1.81	1.79	101		1.95	1.79	109	7.62		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFNS	ND	0.485	0.447	109		0.475	0.447	106	2.79		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
MeFOSAA	ND	0.534	0.466	115		0.540	0.466	116	0.866		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
EtFOSAA	ND	0.530	0.466	114		0.501	0.466	108	5.41		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFUnA	ND	0.474	0.466	102		0.502	0.466	108	5.71		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFDS	ND	0.456	0.451	101		0.472	0.451	105	3.88		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
11Cl-PF3OUDs	ND	1.89	1.86	102		2.04	1.86	110	7.55		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFDoA	ND	0.537	0.466	115		0.547	0.466	117	1.72		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1

Sample ID: SB-9@1.0
EPA Method 1633

Name:	Hazen & Sawyer	Lab Sample: B24G098-MS1/B24G098-MSD1										Source Lab Sample: 2407083-14				
Project:	DB24.1212.00 P1T1	QC Batch: B24G098										Date Extracted: 15-Jul-24				
Matrix:	Solid	Samp Size: 5.37/5.37 g										Column: BEH C18				
Analyte	Sample (ng/g)	MS (ng/g)	MS Spike	MS % Rec	MS Quals	MSD (ng/g)	MSD Spike	MSD % Rec	RPD	MSD Quals	%Rec Limits	RPD Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil
MeFOSA	ND	0.492	0.466	106		0.490	0.466	105	0.948		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFTrDA	ND	0.540	0.466	116		0.566	0.466	121	4.22		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFDoS	ND	0.434	0.451	96.2		0.443	0.451	98.2	2.06		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
PFTeDA	ND	0.512	0.466	110		0.517	0.466	111	0.905		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
EtFOSA	ND	0.578	0.466	124		0.549	0.466	118	4.96		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
MeFOSE	ND	4.89	4.66	105		5.02	4.66	108	2.82		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
EtFOSE	ND	5.00	4.66	107		5.09	4.66	109	1.85		40-150	30	17-Jul-24 11:41	1	17-Jul-24 11:54	1
Labeled Standards	Type	MS % Rec	MS Quals	MSD % Rec	MSD Quals	MS Limits	MS Analyzed	MS Dil	MSD Analyzed	MSD Dil						
13C4-PFBA	IS	105		102		10 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C5-PFPeA	IS	103		96.5		35 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C2-4:2 FTS	IS	112		108		40 - 135	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C3-PFBs	IS	107		105		40 - 135	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C5-PFHxA	IS	103		87.9		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C4-PFHxA	IS	101		94.4		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C3-HFPO-DA	IS	99.6		87.3		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C2-6:2 FTS	IS	105		100		40 - 215	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C8-PFOA	IS	110		93.8		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C3-PFHxS	IS	107		108		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C9-PFNA	IS	102		97.8		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C2-8:2 FTS	IS	113		104		40 - 275	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C6-PFDA	IS	105		98.0		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
d3-MeFOSAA	IS	109		107		40 - 135	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C8-PFOS	IS	108		104		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
d5-EtFOSAA	IS	109		116		40 - 150	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C7-PFUnA	IS	120		109		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C8-PFOSA	IS	93.8		88.5		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C2-PFDoA	IS	98.7		90.5		40 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
13C2-PFTeDA	IS	100		91.4		20 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
d7-MeFOSE	IS	57.7		60.3		20 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
d3-MeFOSA	IS	57.3		55.8		10 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
d9-EtFOSE	IS	54.8		55.3		15 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						
d5-EtFOSA	IS	42.2		42.7		10 - 130	17-Jul-24 11:41	1	17-Jul-24 11:54	1						

Sample ID: Method Blank
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Aqueous <th>Lab Sample:</th> <td>B24G119-BLK1<th>Column:</th><td>BEH C18</td><th data-cs="2" data-kind="parent"></th><th data-kind="ghost"></th></td>	Lab Sample:	B24G119-BLK1 <th>Column:</th> <td>BEH C18</td> <th data-cs="2" data-kind="parent"></th> <th data-kind="ghost"></th>	Column:	BEH C18		
Analyte	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	6.40		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFMPA	ND	3.20		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
3:3 FTCA	ND	8.00		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFPeA	ND	3.20		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFMBA	ND	3.20		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFBS	ND	1.42		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
4:2 FTS	ND	6.00		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFHxA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFEESA	ND	2.85		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFPeS	ND	1.50		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
HFPO-DA	ND	6.68		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
NFDHA	ND	3.20		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
5:3 FTCA	ND	40.0		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFHpA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
ADONA	ND	6.32		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFHxS	ND	1.46		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
6:2 FTS	ND	6.07		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFOA	ND	2.00		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFHpS	ND	1.52		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
7:3 FTCA	ND	40.0		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFNA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFOSA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFOS	ND	1.49		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
9Cl-PF3ONS	ND	6.24		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFDA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
8:2 FTS	ND	6.14		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFNS	ND	1.54		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
MeFOSAA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
EtFOSAA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFUnA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFDS	ND	1.54		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
11Cl-PF3OUdS	ND	6.00		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFDoA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
MeFOSA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFTrDA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFDoS	ND	1.55		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
PFTeDA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
EtFOSA	ND	1.60		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	

Sample ID: Method Blank								EPA Method 1633		
Client Data				Laboratory Data						
Name:	Hazen & Sawyer	Matrix:	Aqueous <th>Lab Sample:</th> <td>B24G119-BLK1</td> <th>Column:</th> <td>BEH C18</td> <th data-cs="3" data-kind="parent"></th> <th data-kind="ghost"></th> <th data-kind="ghost"></th>	Lab Sample:	B24G119-BLK1	Column:	BEH C18			
Analyte	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
MeFOSE	ND	16.0		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1		
EtFOSE	ND	16.0		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	98.2	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C5-PFPcA	IS	107	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C2-4:2 FTS	IS	95.9	40 - 200		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C3-PFBS	IS	103	40 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C5-PFHxA	IS	103	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C4-PFHxA	IS	102	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C3-HFPO-DA	IS	99.7	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C2-6:2 FTS	IS	97.8	40 - 200		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C8-PFOA	IS	103	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C3-PFHxS	IS	104	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C9-PFNA	IS	99.6	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C2-8:2 FTS	IS	93.7	40 - 300		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C6-PFDA	IS	101	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
d3-MeFOSAA	IS	92.0	40 - 170		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C8-PFOS	IS	101	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
d5-EtFOSAA	IS	85.1	25 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C7-PFUnA	IS	103	30 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C8-PFOSA	IS	59.3	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C2-PFDmA	IS	81.8	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
13C2-PFTeDA	IS	83.2	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
d7-MeFOSE	IS	45.8	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
d3-MeFOSA	IS	33.7	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
d9-EtFOSE	IS	42.8	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	
d5-EtFOSA	IS	29.9	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:24	1	

RL - Reporting limit

Results reported to RL.

Sample ID: OPR
EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer	Matrix:	Aqueous	Lab Sample:	B24G119-BS1		Column:	BEH C18			
Analyte		Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA		19.5	20.0	97.5	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFMPA		9.48	10.0	94.8	55 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
3:3 FTCA		21.0	25.0	83.9	65 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFPeA		9.38	10.0	93.8	65 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFMBA		9.00	10.0	90.0	60 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFBS		4.21	4.44	94.8	60 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
4:2 FTS		19.1	18.8	102	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFHxA		5.43	5.00	109	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFEESA		9.36	8.88	105	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFPeS		4.41	4.72	93.3	65 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
HFPO-DA		19.3	21.2	91.1	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
NFDHA		10.4	10.0	104	50 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
5:3 FTCA		107	125	85.4	70 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFHpA		5.07	5.00	101	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
ADONA		18.1	20.0	90.5	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFHxS		4.69	4.56	103	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
6:2 FTS		20.6	19.0	108	65 - 155		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFOA		5.47	5.00	109	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFHpS		4.41	4.76	92.5	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
7:3 FTCA		94.1	125	75.4	50 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFNA		5.72	5.00	114	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFOSA		4.79	5.00	95.8	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFOS		4.48	4.64	96.5	55 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
9Cl-PF3ONS		17.8	19.8	90.1	70 - 155		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFDA		4.63	5.00	92.5	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
8:2 FTS		21.6	19.2	112	60 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFNS		4.30	4.80	89.5	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
MeFOSAA		4.33	5.00	86.5	50 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
EtFOSAA		4.93	5.00	98.6	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFUnA		5.04	5.00	101	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFDS		4.49	4.84	92.7	60 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
11Cl-PF3OUdS		16.5	20.0	82.4	55 - 160		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFDoA		5.30	5.00	106	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
MeFOSA		3.98	5.00	79.5	60 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1

Sample ID: OPR
EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer	Matrix:	Aqueous	Lab Sample:		B24G119-BS1		Column:	BEH C18		
Project:	DB24.1212.00 P1T1										
Analyte		Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTrDA		5.36	5.00	107	65 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFDoS		4.17	4.84	86.1	50 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
PFTeDA		5.27	5.00	105	60 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
EtFOSA		5.27	5.00	105	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
MeFOSE		48.2	50.0	96.4	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
EtFOSE		47.8	50.0	95.6	70 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1
Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C4-PFBA	IS	100	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C5-PFPcA	IS	106	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C2-4:2 FTS	IS	98.5	40 - 200		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C3-PFBS	IS	102	40 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C5-PFHxA	IS	101	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C4-PFHxA	IS	103	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C3-HFPO-DA	IS	99.9	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C2-6:2 FTS	IS	91.3	40 - 200		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C8-PFOA	IS	96.5	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C3-PFHxS	IS	100	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C9-PFNA	IS	101	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C2-8:2 FTS	IS	87.1	40 - 300		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C6-PFDA	IS	91.2	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
d3-MeFOSAA	IS	98.8	40 - 170		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C8-PFOS	IS	105	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
d5-EtFOSAA	IS	88.1	25 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C7-PFUnA	IS	87.0	30 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C8-PFOSA	IS	66.3	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C2-PFDoA	IS	74.5	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
13C2-PFTeDA	IS	76.3	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
d7-MeFOSE	IS	53.9	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
d3-MeFOSA	IS	42.3	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
d9-EtFOSE	IS	52.7	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		
d5-EtFOSA	IS	35.1	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:37	1		

Sample ID: OPR
EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer <th>Matrix:</th> <td>Aqueous</td> <th>Lab Sample:</th> <td data-cs="2" data-kind="parent">B24G119-BS2</td> <td data-kind="ghost"></td> <th>Column:</th> <td data-cs="3" data-kind="parent">BEH C18</td> <td data-kind="ghost"></td> <td data-kind="ghost"></td>	Matrix:	Aqueous	Lab Sample:	B24G119-BS2		Column:	BEH C18			
Analyte		Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA		13.9	12.8	109	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFMPA		6.86	6.40	107	55 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
3:3 FTCA		14.4	16.0	90.3	65 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFPeA		6.82	6.40	107	65 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFMBA		6.99	6.40	109	60 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFBS		3.01	2.84	106	60 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
4:2 FTS		13.7	12.0	114	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFHxA		3.59	3.20	112	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFEESA		6.27	5.68	110	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFPeS		3.01	3.01	99.9	65 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
HFPO-DA		13.1	12.8	102	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
NFDHA		7.16	6.40	112	50 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
5:3 FTCA		76.7	80.0	95.9	70 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFHpA		3.40	3.20	106	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
ADONA		11.9	12.1	98.8	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFHxS		3.15	2.92	108	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
6:2 FTS		13.4	12.2	110	65 - 155		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFOA		4.06	3.20	127	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFHpS		3.13	3.05	103	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
7:3 FTCA		61.5	80.0	76.9	50 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFNA		4.02	3.20	126	70 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFOSA		3.44	3.20	107	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFOS		2.97	2.97	100	55 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
9Cl-PF3ONS		12.3	12.0	103	70 - 155		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFDA		3.61	3.20	113	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
8:2 FTS		14.1	12.3	115	60 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFNS		3.13	3.08	102	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
MeFOSAA		3.56	3.20	111	50 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
EtFOSAA		3.37	3.20	105	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFUnA		3.55	3.20	111	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFDS		2.85	3.09	92.4	60 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
11Cl-PF3OUdS		10.5	12.1	86.7	55 - 160		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFDoA		3.68	3.20	115	70 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
MeFOSA		3.24	3.20	101	60 - 150		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1

Sample ID: OPR
EPA Method 1633

Client Data		Laboratory Data									
Name:	Hazen & Sawyer	Matrix:	Aqueous	Lab Sample:	B24G119-BS2		Column:	BEH C18			
Analyte		Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTrDA		3.69	3.20	115	65 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFDoS		2.72	3.10	87.5	50 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
PFTeDA		3.67	3.20	115	60 - 140		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
EtFOSA		3.54	3.20	111	65 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
MeFOSE		32.6	32.0	102	70 - 145		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
EtFOSE		34.5	32.0	108	70 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1
Labeled Standards		Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA		IS	91.7	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C5-PFPcA		IS	98.0	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C2-4:2 FTS		IS	94.4	40 - 200		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C3-PFBS		IS	96.9	40 - 135		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C5-PFHxA		IS	94.0	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C4-PFHxA		IS	93.6	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C3-HFPO-DA		IS	89.4	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C2-6:2 FTS		IS	86.6	40 - 200		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C8-PFOA		IS	89.3	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C3-PFHxS		IS	94.3	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C9-PFNA		IS	89.3	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C2-8:2 FTS		IS	85.4	40 - 300		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C6-PFDA		IS	78.3	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
d3-MeFOSAA		IS	75.9	40 - 170		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C8-PFOS		IS	96.1	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
d5-EtFOSAA		IS	74.8	25 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C7-PFUnA		IS	76.8	30 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C8-PFOSA		IS	53.0	40 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C2-PFDoA		IS	66.9	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
13C2-PFTeDA		IS	67.3	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
d7-MeFOSE		IS	42.6	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
d3-MeFOSA		IS	34.3	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
d9-EtFOSE		IS	39.4	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	
d5-EtFOSA		IS	30.8	10 - 130		B24G119	18-Jul-24	0.500 L	19-Jul-24 18:51	1	

Sample ID: Equipment Blank
EPA Method 1633

Client Data		Laboratory Data							
Name:	Hazen & Sawyer	Matrix:	Aqueous	Lab Sample:	2407083-05	Column:	BEH C18		
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 13:55	Date Received:	10-Jul-24 09:20				
Analyte	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	ND	6.79		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFMPA	ND	3.39		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
3:3 FTCA	ND	8.48		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFPeA	ND	3.39		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFMBA	ND	3.39		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFBS	ND	1.51		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
4:2 FTS	ND	6.36		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFHxA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFEESA	ND	3.02		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFPeS	ND	1.59		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
HFPO-DA	ND	7.08		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
NFDHA	ND	3.39		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
5:3 FTCA	ND	42.4		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFHpA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
ADONA	ND	6.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFHxS	ND	1.55		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
6:2 FTS	ND	6.44		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFOA	ND	2.12		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFHpS	ND	1.61		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
7:3 FTCA	ND	42.4		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFNA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFOSA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFOS	ND	1.58		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
9Cl-PF3ONS	ND	6.62		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFDA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
8:2 FTS	ND	6.51		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFNS	ND	1.63		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
MeFOSAA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
EtFOSAA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFUnA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFDS	ND	1.63		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
11Cl-PF3OUDs	ND	6.36		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFDoA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
MeFOSA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFTrDA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFDoS	ND	1.64		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
PFTeDA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	

Sample ID: Equipment Blank
EPA Method 1633

Client Data		Laboratory Data								
Name:	Hazen & Sawyer	Matrix:	Aqueous	Lab Sample:	2407083-05	Column:	BEH C18			
Project:	DB24.1212.00 P1T1	Date Collected:	03-Jul-24 13:55	Date Received:	10-Jul-24 09:20					
Analyte	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
EtFOSA	ND	1.70		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1		
MeFOSE	ND	17.0		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1		
EtFOSE	ND	17.0		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1		
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	98.0	10 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C5-PFPcA	IS	96.6	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C2-4:2 FTS	IS	98.2	40 - 200		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C3-PFBS	IS	102	40 - 135		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C5-PFHxA	IS	92.3	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C4-PFHpA	IS	93.4	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C3-HFPO-DA	IS	89.5	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C2-6:2 FTS	IS	97.8	40 - 200		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C8-PFOA	IS	109	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C3-PFHxS	IS	101	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C9-PFNA	IS	94.1	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C2-8:2 FTS	IS	92.4	40 - 300		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C6-PFDA	IS	91.9	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
d3-MeFOSAA	IS	94.1	40 - 170		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C8-PFOS	IS	95.6	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
d5-EtFOSAA	IS	88.4	25 - 135		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C7-PFUnA	IS	97.7	30 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C8-PFOSA	IS	60.1	40 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C2-PFDoA	IS	77.9	10 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
13C2-PFTeDA	IS	72.1	10 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
d7-MeFOSE	IS	47.0	10 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
d3-MEFOSA	IS	32.3	10 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
d9-EtFOSE	IS	44.9	10 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	
d5-EtFOSA	IS	28.7	10 - 130		B24G119	18-Jul-24	0.472 L	19-Jul-24 20:53	1	

RL - Reporting limit

Results reported to RL.

DATA QUALIFIERS & ABBREVIATIONS

For EPA 1633

B	This compound was also detected in the method blank
Conc.	Concentration
CRS	Cleanup Recovery Standard
D	Dilution
DL	Detection Limit
E	The associated compound concentration exceeded the calibration range of the instrument
I	Ion transition ratio is outside of the acceptance criteria.
IS	Internal Standard
J	The amount detected is below the Reporting Limit/LOQ
LOD	Limit of Detection
LOQ	Limit of Quantitation
M	Estimated Maximum Possible Concentration (CA Region 2 projects only)
MDL	Method Detection Limit
NA	Not applicable
ND	Not Detected
OPR	Ongoing Precision and Recovery sample
P	The reported concentration may include contribution from chlorinated diphenyl ether(s).
Q	Recovery and/or RPD was outside laboratory acceptance limits
RL	Reporting Limit
RL	For 537.1, the reported RLs are the MRLs.
TEQ	Toxic Equivalency, sum of the toxic equivalency factors (TEF) multiplied by the sample concentrations.
TEQMax	TEQ calculation that uses the detection limit as the concentration for non-detects
TEQMin	TEQ calculation that uses zero as the concentration for non-detects
TEQRisk	TEQ calculation that uses $\frac{1}{2}$ the detection limit as the concentration for non-detects
U	Not Detected (specific projects only)
*	See Cover Letter

Unless otherwise noted, solid sample results are reported in dry weight. Tissue samples are reported in wet weight.

Enthalpy Analytical - EDH Certifications

Accrediting Authority	Certificate Number
Alaska Department of Environmental Conservation	17-013
Arkansas Department of Environmental Quality	21-023-0
California Department of Health – ELAP	2892
DoD ELAP - A2LA Accredited - ISO/IEC 17025	3091.01
Florida Department of Health	E87777
Hawaii Department of Health	N/A
Louisiana Department of Environmental Quality	01977
Maine Department of Health	2020018
Michigan Department of Environmental Quality	9932
Minnesota Department of Health	2211390
Nevada Division of Environmental Protection	CA00413
New Hampshire Environmental Accreditation Program	207721
New Jersey Department of Environmental Protection	CA003
New York Department of Health	11411
Ohio Environmental Protection Agency	87778
Oregon Laboratory Accreditation Program	4042-021
Texas Commission on Environmental Quality	T104704189-22-13
Vermont Department of Health	VT-4042
Virginia Department of General Services	11276
Washington Department of Ecology	C584
Wisconsin Department of Natural Resources	998036160

Current certificates and lists of licensed parameters can be found at Enthalpy.com/Resources/Accreditations.



CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only		
Work Order #:	2407083	Temp: 1.7 °C
Storage ID:	R-13, WL-2, WF-2	Storage Secured: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Project ID: DB24-1212.00 P1T1 PO#: _____ Sampler: J. Fisher (name)

TAT Standard: 21 days
 (check one): Rush (surcharge may apply)
 14 days 7 days Other: _____

Invoice to: Name Company Address City State Phone #
 Any Ewing HAZEN & SAWYER 1005 SUN AVE ALBUQUERQUE, NM 87109 605/217-7152

Relinquished by (printed name and signature) Date Time Received by (printed name and signature)

Jeanne Fisher Jenny Zmily 7/8/2024 1500 Jennifer Torres JTS 07/10/24 0920

Relinquished by (printed name and signature) Date Time Received by (printed name and signature)

SHIP TO: Enthalpy Analytical - EDH 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520	Method of Shipment: _____ ATTN: _____ Tracking No.: _____	Add Analysis(es) Requested Container(s) Quantity Type Matrix PFAS by Isotope Dilution EPA 1633 Draft EPA 1633 FINAL DoD QSM Table B-15 Other: EPA 513 EPA 517.1 List of 28 (537.1 + 535)	PFAS by Isotope Dilution Drinking Water Requirements: <input type="checkbox"/> State-specific (list state): _____ <input type="checkbox"/> DoD QSM Compliant <input type="checkbox"/> PFAS List Below (or attach compound list): _____
Sample ID	Date	Time	Location/ Sample Description
SB-3@2.0'	7/3/24	1210	
SB-10@2.0'	1300		
SB-2@2.0'	1245		
SB-6@2.0'	1340		
EQUIPMENT RINSE	1355		
SB-7@0-0.5'	1410		
SB-11@0-0.5'	1420		
SB-7@2.0'	1430		
SB-5@2.0'	1500		
SB-12@2.0'	1510		

Other Instructions/ Comments:

SEND
DOCUMENTATION
AND RESULTS TO:

Name: Prince Ferman
Company: DB54A
Address: 6020 Academy NE Suite 100
City: Albuquerque State: NM Zip: 87109
Phone: (817) 914-1645
Email: pferman@geo-logic.com

Container Types: P = HDPE, PJ = HDPE Jar

PY = Polypropylene, O = Other: _____

Bottle Preservation Type:

TZ = Trizma: _____ AA = Amm. Acetate: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue

SL = Sludge, SO = Soil, WW = Wastewater, O = Other: _____

ID: LR-COC

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CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only	
Work Order #:	2407083
Temp:	13 °C
Storage ID:	RJ-WR2-WF1
Storage Secured:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Project ID: DB241212.00 P1T1 PO#: Sampler: J. FISHER (name)

Invoice to: Name Company Address City State Phone #

Amy Ewing Hazen & Sawyer 100 Sun Ave NE Albuquerque, NM 87109 (505)217-7152

Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

Jessica Fisher J. Fisher 7/18/24 1500 Jennifer Torres J. Torres 07/10/24 0920

Relinquished by (printed name and signature) Date Time Received by (printed name and signature) Date Time

SHIP TO: Enthalpy Analytical - EDH 1104 Windfield Way El Dorado Hills, CA 95762 (916) 673-1520	Method of Shipment: 	Add Analysis(es) Requested											
ATTN: _____	Tracking No.: _____	Container(s)	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1633-Draft	EPA 1633 FINAL	DOD QSM Table B-15	Other:	PFAS by Isotope Dilution	Drinking Water	Requirements:
Sample ID	Date	Time	Location/ Sample Description										<input type="checkbox"/> State-specific (list state): _____
SB-4@2.0'	7/3/24	1520				X							<input type="checkbox"/> DoD QSM Compliant
SB-1@2.0'		1550				X	X						<input type="checkbox"/> PFAS List Below (or attach compound list):
SB-8@2.0'		1630				X	X						
SB-9@1.0'	✓	1740				X	X						

Other Instructions/ Comments:

SEND DOCUMENTATION AND RESULTS TO:

Name: Jennifer Feltman
 Company: ABST
 Address: 6220 Academy NE Suite 100
 City: Albuquerque State: NM Zip: 87109
 Phone: (505) 214-1645
 Email: jfeltman@geo-logic.com

Container Types: P = HDPE, PJ = HDPE Jar

PY = Polypropylene, O = Other: _____

Bottle Preservation Type:

TZ = Trizma: _____ AA = Amm. Acetate: _____

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T=Tissue

SL = Sludge, SO = Soil, WW = Wastewater, O = Other: _____

ID: LR-COC

Rev. No. 4

Rev. Date: 6/24/2024

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Sample Log-In Checklist

 Page # 1 of 1

 Work Order #: 2407083 TAT 5t2

Samples Arrival:	Date/Time <u>07/10/24 0920</u>		Initials: <u>JT</u>		Location: <u>WR-2</u> Shelf/Rack: <u>NA</u>		
Delivered By:	FedEx	UPS	On Trac	GLS	DHL	Hand Delivered	Other
Preservation:	Ice	Blue Ice		Techni Ice		Dry Ice	None
Temp °C: <u>1.3</u> (uncorrected)	Probe used: Y / <u>N</u>				Thermometer ID: <u>IR-4</u>		
Temp °C: <u>1.3</u> (corrected)							

	YES	NO	NA
Shipping Container(s) Intact?	✓		
Shipping Custody Seals Intact?	✓		
Airbill <u>/</u> Trk # <u>2108 1504 5198</u>	✓		
Shipping Documentation Present?	✓		
Shipping Container <u>Enthalpy</u> Client Retain Return Dispose			
Chain of Custody / Sample Documentation Present?	✓		
Chain of Custody / Sample Documentation Complete?	✓		
Holding Time Acceptable?	✓		
Logged In: <u>07/10/24 07:03</u> Initials: <u>LR</u> Location: <u>R-1, WR-2, WF-2</u>			
Shelf/Rack: <u>A-3, A-4, A-2</u>			
COC Anomaly/Sample Acceptance Form completed?	✓		

Comments:

CoC/Label Reconciliation Report WO# 2407083

Lab Number	CoC Sample ID	Sample Alias	Sample Date/Time	Container	Base Matrix	Sample Comments
2407083-01	A SB-3@2.0	<input checked="" type="checkbox"/>	03-Jul-24 12:10	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-02	A SB-10@2.0	<input checked="" type="checkbox"/>	03-Jul-24 12:20	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-03	A SB-2@2.0	<input type="checkbox"/> A	03-Jul-24 12:45	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-04	A SB-6@2.0	<input checked="" type="checkbox"/>	03-Jul-24 13:40	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-05	A Equipment Blank	<input type="checkbox"/> O	03-Jul-24 13:55	<input checked="" type="checkbox"/>	HDPE Bottle, 500 mL	Aqueous
2407083-05	B Equipment Blank	<input type="checkbox"/> J	03-Jul-24 13:55	<input checked="" type="checkbox"/>	HDPE Bottle, 500 mL	Aqueous
2407083-06	A SB-7@0-0.5	<input checked="" type="checkbox"/>	03-Jul-24 14:10	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-07	A SB-11@0-0.5	<input checked="" type="checkbox"/>	03-Jul-24 14:20	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-08	A SB-7@2.0	<input checked="" type="checkbox"/>	03-Jul-24 14:30	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-09	A SB-5@2.0	<input checked="" type="checkbox"/>	03-Jul-24 15:00	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-10	A SB-12@2.0	<input checked="" type="checkbox"/>	03-Jul-24 15:10	<input type="checkbox"/> O	HDPE Jar, 6 oz	Solid
2407083-11	A SB-4@2.0	<input checked="" type="checkbox"/>	03-Jul-24 15:20	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-12	A SB-1@2.0	<input checked="" type="checkbox"/>	03-Jul-24 15:50	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-13	A SB-8@2.0	<input checked="" type="checkbox"/>	03-Jul-24 16:30	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid
2407083-14	A SB-9@1.0	<input checked="" type="checkbox"/>	03-Jul-24 17:40	<input checked="" type="checkbox"/>	HDPE Jar, 6 oz	Solid

Checkmarks indicate that information on the COC reconciled with the sample label.

Any discrepancies are noted in the following columns.

	Yes	No	NA
Sample Container Intact?	<input checked="" type="checkbox"/>		
Sample Custody Seals Intact?		<input checked="" type="checkbox"/>	
Adequate Sample Volume?	<input checked="" type="checkbox"/>		
Container Type Appropriate for Analysis(es)	<input checked="" type="checkbox"/>		

Comments:

- Ⓐ Underlined part missing on sample label
- Ⓑ Sample label time 15:00
- Ⓒ Underlined part listed on sample label "Risate"
- Ⓓ Due to limitation of the lines, the apostrophe of the sample ID is deleted.

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 None Other

Verified by/Date: 10/07/18/24 Originally labeled and reconciled
by KT on 07/11/24 and verified by IC BD on
07/11/24

ANOMALY FORM

Work Order # 2407083

Initial/Date The following checked issues were noted during sample receipt and login:

1. The samples were received out of temperature at (W/PHT): _____
Was Ice present: Yes No Melted Blue Ice
2. The Chain-of-Custody (CoC) was not relinquished properly.
3. The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.
4. The sample(s) did not include a sample collection time. All or Sample Name: _____
5. A sample ID discrepancy was found. See the Reconciliation report.
The CoC Sample ID will be used unless notified otherwise.
- WA07/1124 6. A sample date and/or time discrepancy was found. See the Reconciliation report.
The CoC Sample date/time will be used unless notified otherwise.
- WA07/1124 7. The CoC did not include a sample matrix. The following sample matrix will be used: _____
8. Insufficient volume received for analysis. All or Sample Name: _____
9. The backup bottle was received broken. Sample Name: _____
10. CoC not received, illegible or destroyed.
11. The sample(s) were received out of holding time. All or Sample Name: _____
12. The CoC did not include an analysis. All or Sample Name: _____
13. Sample(s) received without collection date. All or Sample Name: _____
14. Sample(s) not received. All or Sample Name: _____
15. Sample(s) received broken. All or Sample Name: _____
16. An incorrect container-type was used. All or Sample Name: _____
17. The Field Reagent Blank (FRB) preservative was from a different lot than the field samples.
Will proceed with analysis and narrate unless notified otherwise.
18. Other: _____

Bolded items require sign-off

Client Contacted: _____

Date of Contact: _____

Lab Project Manager: _____

Resolution: