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May 12, 2025

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

Re: Summary of Field Activities and Analytical Results
Additional 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) on March 18, 2025 (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.

DBS&A conducted shallow soil sampling at nine locations (SB-1 through SB-9) (Figure 1) on July 3, 2024 at depths of 1 to 2 feet below ground surface (bgs). Additionally, the surface hydromulch was sampled at the SB-7 location. Per- and polyfluoroalkyl substances (PFAS) were not detected in samples collected on the west side of the site (SB-1, SB-8, and SB-9). PFAS were detected in samples collected from SB-2 through SB-6, which were collected within the former sludge disposal facility, at concentrations above the New Mexico Environment Department (NMED) soil screening levels (SSLs). PFAS were also detected at concentrations above the NMED SSLs in 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 SB-3 and the surface materials collected from SB-7 (Figure 2).

DBS&A prepared a work plan dated November 27, 2024 for additional soil sampling to investigate PFAS in the subsurface at the locations of SB-2 and SB-3 (Figure 1). This report documents the results of the field investigation and analytical data.

Sampling Analytes

Soil sampling was performed to evaluate whether PFAS are present in the subsurface soils below the former sludge disposal facility at the locations of SB-2 and SB-3. PFAS analytes and their respective acronyms are listed in Table 1. Sampling locations are summarized in Table 2. PFAS analytes with detections in July 2024 and March 2025 are presented in Table 3, along with the NMED SSLs for target soil leachate concentrations (C_w) with a dilution attenuation factor (DAF) of 20 (NMED, 2022).

Scope of Work

DBS&A contracted Earth Worx Environmental Services LLC (Earth Worx) to collect soil samples using direct-push drilling technology. Six primary soil samples were proposed at depths of 5, 15, and 30 feet bgs. The samples were collected using a continuous core sampling tool lined with disposable polyvinyl chloride (PVC) liners. Due to the sensitivity of PFAS analytical methods and the susceptibility of PFAS sampling to cross-contamination, the direct-push core sampler was decontaminated before each sample collection using a solution of deionized water and Liquinox (or equivalent) soap.

A total of seven soil samples were proposed: six primary samples (three samples each from the two borings) and one duplicate sample (to be labeled independently [SB-15]). One aqueous equipment blank was collected to confirm the effectiveness of decontamination procedures.

Soil samples were described according to the Unified Soil Classification System (USCS). Enthalpy Analytical Laboratory (Enthalpy) in El Dorado Hills, California performed chemical analyses of all samples following their corporate quality assurance program. Soil and aqueous samples were analyzed for PFAS using U.S. Environmental Protection Agency (EPA) method 1633.

Field Investigation Activities

On March 18, 2025, DBS&A and Earth Worx mobilized to the site. Earth Worx attempted to collect samples at the proposed depths at the two locations. The drilling rig hit refusal at depths ranging from 2.5 to 12 feet bgs. Two samples were collected from each boring at depths of 5 and 11 feet bgs. A total of five soil samples were collected, including four primary samples and one duplicate sample. Primary samples were collected at depths of 5 and 11 feet bgs in SB-13 and SB-14. SB-15 was a duplicate sample collected from SB-14 at 5 feet bgs. One equipment blank sample was collected from the decontaminated core barrel for quality control purposes using laboratory-provided PFAS-free deionized water.

Soils encountered at the site consisted of sand with gravel and minor clay (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 for analysis using EPA method 1633. All samples were accompanied by full chain of custody documentation at all times. Field notes documenting sample collection activities are provided in Attachment 1. The complete laboratory report, including chain of custody, is provided in Attachment 2.

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 repellant 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 (SWRCB, 2020).

Analytical Results

Soil analytical results are summarized in Table 3. Soil analytical results for native soil samples collected from 5 to 12 feet bgs on March 18, 2025 are shown on Figure 3.

PFOS was detected at a concentration above the NMED SSL in the soil sample collected from SB-13 at 5 feet bgs (0.420 micrograms per kilogram [µg/kg]). PFOS was not detected in the SB-13 sample from 11 feet bgs. SB-13 was installed as close as possible to the location of SB-2. During the July 2024 soil sampling event, SB-2 had a PFOS concentration (119 µg/kg) significantly above the NMED SSL of 0.209 µg/kg at 2 feet bgs (DBS&A, 2024).

PFAS were detected in the samples collected at 11 feet bgs from SB-13 and the samples collected at 5 and 11 feet bgs from SB-14 at concentrations below the NMED SSLs. Concentrations of PFAS in the duplicate sample are consistent with concentrations in the corresponding primary sample (Table 3). Concentrations of all PFAS were below laboratory reporting limits in the equipment blank quality control sample (Attachment 2).

Conclusions

Based on the results of the soil sampling event, DBS&A provides the following conclusions regarding conditions at the site:

- One PFAS analyte (PFOS) was detected at a concentration above the NMED SSL in the sample collected at 5 feet bgs from soil boring SB-13.
- Additional PFAS analytes were detected at concentrations below the NMED SSLs in the SB-13 sample collected at 11 feet bgs and in the SB-14 samples collected at 5 and 11 feet bgs.

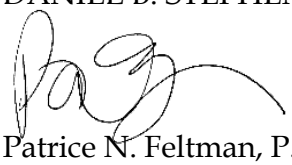
Based on the findings of this soil sampling event and the July 2024 soil sampling event, PFAS are present in the shallow subsurface and in surface materials within the former sludge disposal areas at concentrations above the NMED SSLs. Concentrations of PFAS above the NMED SSLs have not been shown to extend deeper than 5 feet bgs in the area of SB-2/SB-13, which is located near the former sludge injection stand pipe, or deeper than 2 feet bgs at the location of SB-3/SB-14.

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 ext. 181 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

References

Daniel B. Stephens & Associates, Inc. (DBS&A). 2024. Letter report from Patrice N. Feltman to Amy Ewing, Hazen and Sawyer, regarding Summary of field activities and analytical results, Soil sampling event, City of Santa Fe Paseo Real Wastewater Reclamation Facility. October 14, 2024.

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.

State Water Resources Control Board (SWRCB) [of California]. 2020. *Drinking water sample collection guidance for per- and poly-fluoroalkyl substances (PFAS)*. Division of Drinking Water. May 2020.

Figures

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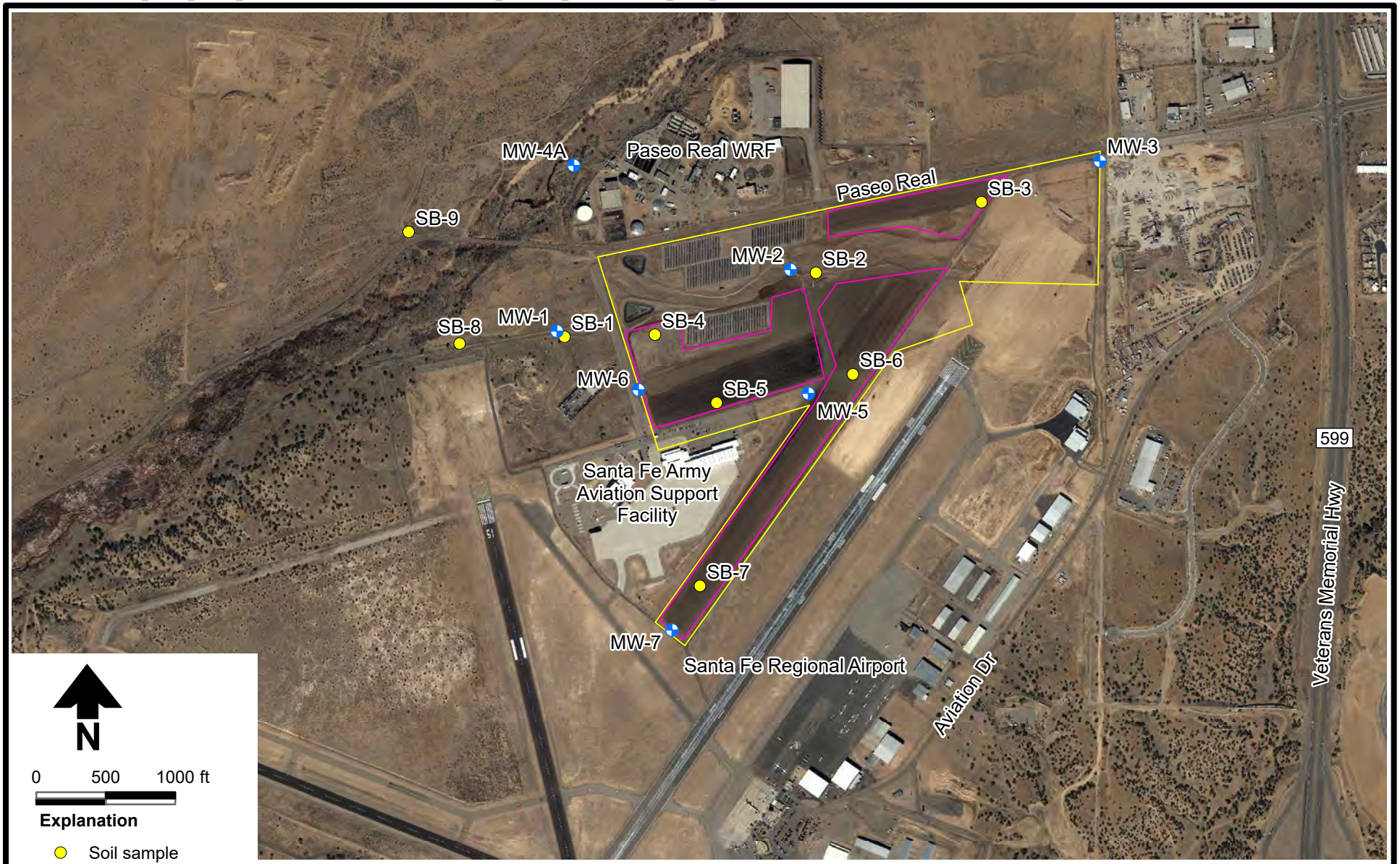

Base image source: Google Earth Pro, March 2021

Figure 1

CITY OF SANTA FE
PASEO REAL WATER RECLAMATION FACILITY
Site Map

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9/11/2024 DB24.1212

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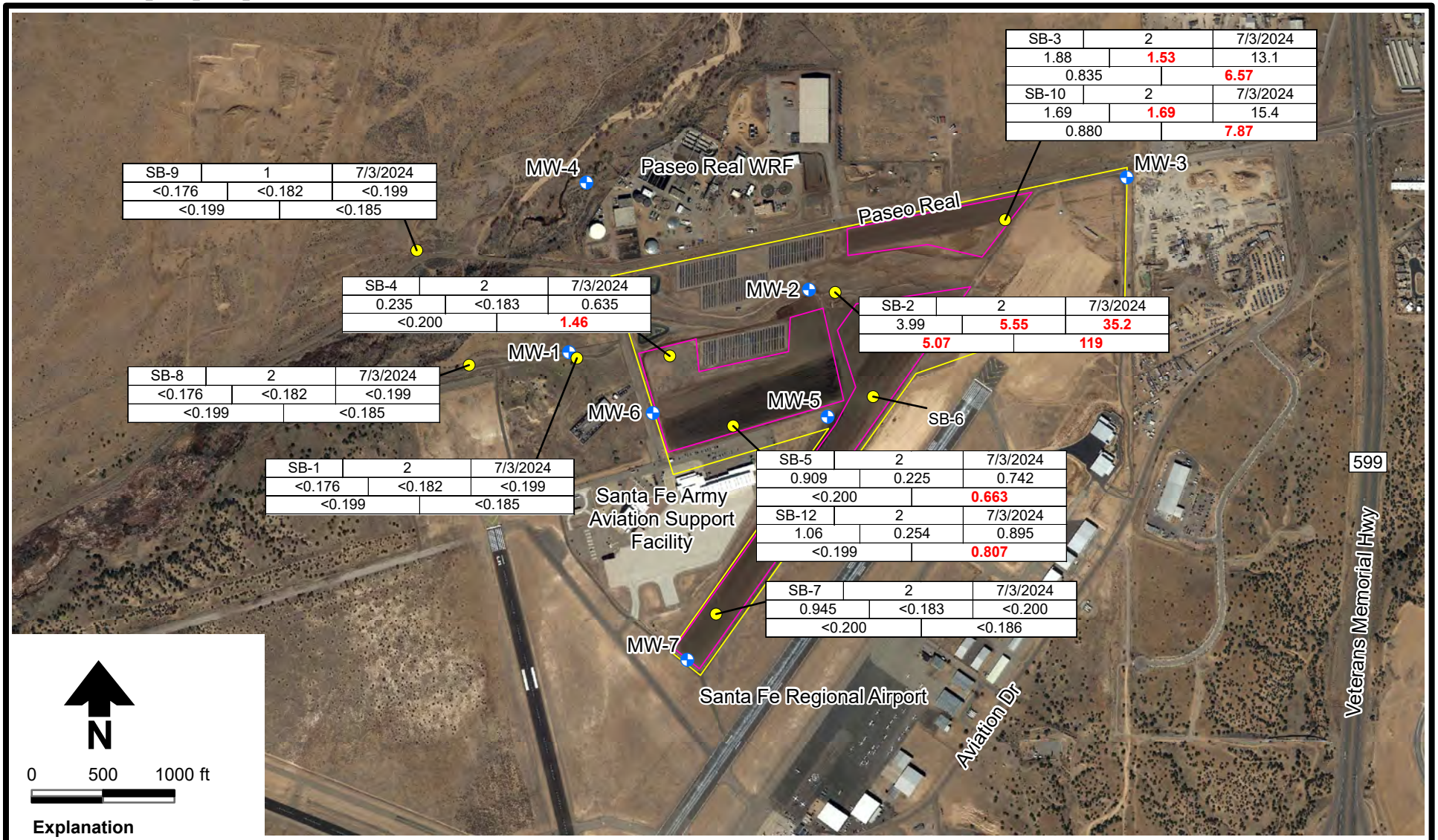

Location designation	Sample Depth (ft bgs)	Date
PFBS	PFHxS	PFOA
PFNA	PFOS	

Aerial Photograph: Google Earth, 3/3/2023

Notes:
1. All concentrations reported in micrograms per kilogram (µg/kg)
2. **Red** indicates concentrations that exceed the NMED Soil Screening Levels (Cw, DAF 20)

CITY OF SANTA FE
PASEO REAL WATER RECLAMATION FACILITY
Contaminant Concentrations in Soil
July 3, 2024

Figure 2

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4/17/2025 DB24.1212

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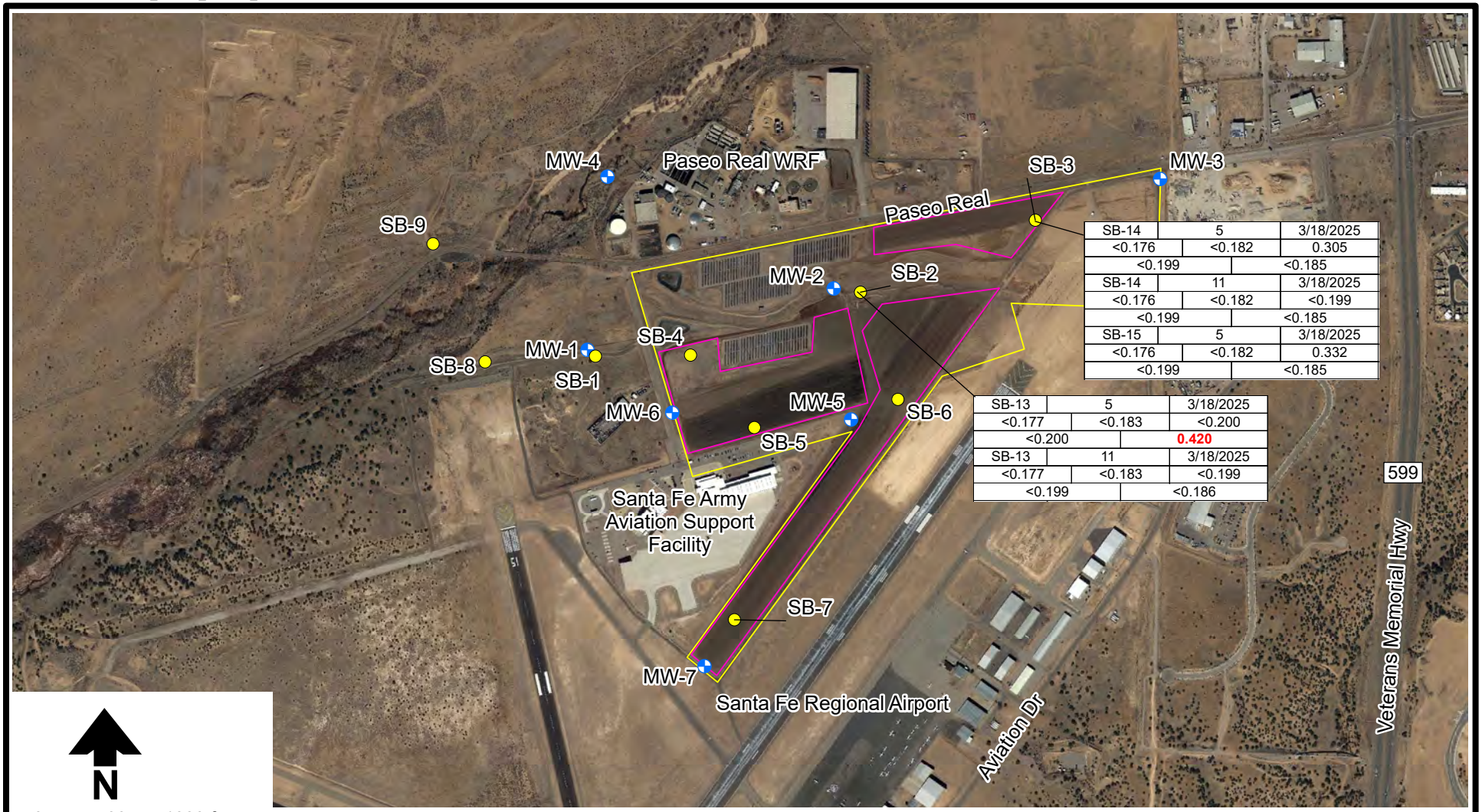

SB-14	5	3/18/2025
<0.176	<0.182	0.305
<0.199	<0.185	
SB-14	11	3/18/2025
<0.176	<0.182	<0.199
<0.199	<0.185	
SB-15	5	3/18/2025
<0.176	<0.182	0.332
<0.199	<0.185	

SB-13	5	3/18/2025
<0.177	<0.183	<0.200
<0.200	0.420	
SB-13	11	3/18/2025
<0.177	<0.183	<0.199
<0.199	<0.186	

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

Explanation

- Soil sample
- Monitor well
- Approximate area of land application after 2010
- Approximate area of land application prior to 2010

Notes:
1. All concentrations reported in micrograms per kilogram (µg/kg)
2. **Red** indicates concentrations that exceed the NMED Soil Screening Levels (Cw, DAF 20)

Base image source: Google Earth Pro, March 2021

Figure 3

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4/17/2025 DB24.1212

CITY OF SANTA FE
PASEO REAL WATER RECLAMATION FACILITY
Contaminant Concentrations in Soil
March 18, 2025

Tables

Table 1. PFAS Target Analytes

Analyte Name	Acronym
Perfluorobutanoic acid	PFBA
Perfluoropentanoic acid	PFPeA
Perfluorobutane sulfonic acid	PFBS
Perfluorohexanoic acid	PFHxA
Perfluoropentanesulfonic acid	PFPeS
Perfluoroheptanoic acid	PFHpA
Perfluorohexane sulfonic acid	PFHxS
6:2 Fluorotelomer sulfonic acid	6:2 FTS
Perfluorooctanoic 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
SB-13	35.628877	–106.083517	SB-2/near former sludge injection stand pipe location
SB-14 and SB-15	35.630316	–106.079504	SB-3/former land application area 1

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]	NMED SSL [b]	Concentration (µg/kg)																
		SB-1	SB-2	SB-3	SB-4	SB-5	SB-6	SB-7	SB-7	SB-8	SB-9	SB-10 (SB-3 Dup)	SB-11 (SB-7 Dup)	SB-12 (SB-5 Dup)	SB-13	SB-13	SB-14	SB-14	SB-15 (SB-14 Dup)
Sample Depth (feet)		*2*	*2*	*2*	*2*	*2*	*2*	*0–0.5*	*2*	*2*	*1*	*2*	*0–0.5*	*2*	*5*	*11*	*5*	*11*	*5*
Sample Date		*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*	*3/18/2025*	*3/18/2025*	*3/18/2025*	*3/18/2025*	*3/18/2025*
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	<0.798	<0.799	<0.799	<0.797	<0.798	<0.796
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	2.46	<0.398	0.446	<0.397	<0.397	<0.397
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	1.06	<0.177	<0.177	<0.176	<0.176	<0.176
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	4.64	0.599	0.501	0.257	0.307	0.294
PFPeS	None	<0.187	0.465	<0.188	<0.188	0.399	<0.188	0.207	<0.188	<0.187	<0.187	<0.187	0.195	0.417	<0.188	<0.188	<0.187	<0.187	<0.187
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	3.30	0.368	<0.199	0.318	0.206	0.333
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**	0.254	<0.183	<0.183	<0.182	<0.182	<0.182
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	<0.756	<0.757	<0.757	<0.755	<0.756	<0.755
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**	0.895	<0.200	<0.199	0.305	<0.199	0.332
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	<0.189	<0.190	<0.190	<0.189	<0.189	<0.189
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**	<0.199	<0.200	<0.199	<0.199	<0.199	<0.199
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	<0.199	<0.200	<0.199	<0.199	<0.199	<0.199
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**	**0.807**	**0.420**	<0.186	<0.185	<0.185	<0.185
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	0.252	<0.200	<0.199	<0.199	<0.199	<0.199
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	<0.765	<0.766	<0.766	<0.764	<0.765	<0.764
PFNS	None	<0.191	0.362	<0.192	<0.192	<0.192	<0.192	<0.191	<0.192	<0.191	<0.191	<0.191	<0.192	<0.191	<0.192	<0.192	<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	<0.199	<0.200	<0.199	<0.199	<0.199	<0.199
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	0.235	<0.200	<0.199	<0.199	<0.199	<0.199
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	<0.199	<0.200	<0.199	<0.199	<0.199	<0.199
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	<0.192	<0.193	<0.192	<0.192	<0.192	<0.192
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	<0.199	<0.200	<0.199	<0.199	<0.199	<0.199
MeFOSA	None	<0.199	0.413	<0.200	<0.200	<0.200	<0.200	<0.199	<0.200	<0.199	<0.199	<0.199	<0.200	<0.199	<0.200	<0.199	<0.199	<0.199	<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	<0.199	<0.200	<0.199	<0.199	<0.199	<0.199
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	<0.199	<0.200	<0.199	<0.199	<0.199	<0.199
EtFOSA	None	<0.199	0.289	<0.200	<0.200	<0.200	<0.200	<0.199	<0.200	<0.199	<0.199	<0.199	<0.200	<0.199	<0.200	<0.199	<0.199	<0.199	<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	<1.99	<2.00	<1.99	<1.99	<1.99	<1.99
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	<1.99	<2.00	<1.99	<1.99	<1.99	<1.99

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 or March 18, 2025 soil sampling events.

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

µg/kg = Micrograms per kilogram Dup = Duplicate

Attachment 1

Field Notes

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3/18/25 Santa Fe PFAS Soil Sampling SR/DV

1007 arrived onsite w/ Louis from Earth Woexs. Setting up Rig.
Rig - Geoprobe 6620DT
weather, sunny, windy 59°F
1020 Tip has been disinfected
1026 SB-13 (SB-2)
35° 37' 43.9568" N
106° 5' 0.6612" W
1027 Begin drilling
Bore 1 - ~~2.7~~ SR 2' 7"
1100 Bore 2 - 4' 11"
Field blank 1 collected
1120 Bore 3 - ~~4~~ SR 5' 7"
Sample SB-13-5
@ 1125
1144 Bore 4, attempt, hit caliche
Bore 4 - 12' 3"
1150 Will attempt another borehole. Caliche was hit sooner
1233 Attempted again, but hit refusal. Correspondance with Pat Rice, she said

SR/DV 3/18/25

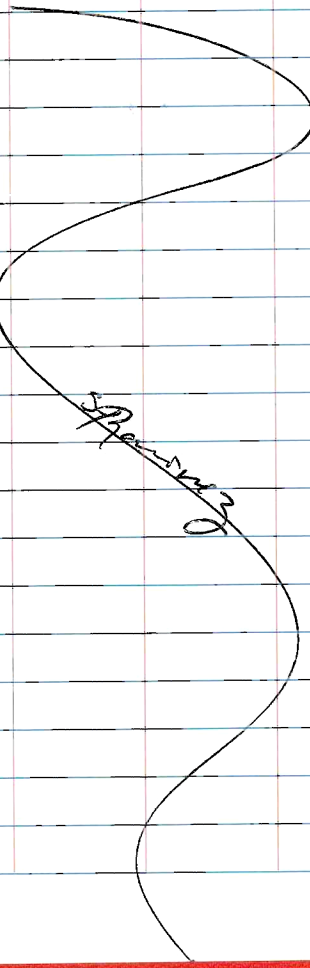
to move on for now & collect sample @ lowest depth
1241 @ SB-14 (SB-3)
setting up, decon drilling equipment
Bore 1 - 3' 4"
1250 Sample SB-13-12
collected @ 1235
gps point
35° 37' 49.1369" N
106° 4' 46.2158" W
1305 Field Blank 2 collected
Bore 2 - 6' 11"
1317 Bore 3 -
Sample SB-14-5
collected @ 1320
SB-15 collected
1330 Refusal, tried a second borehole & had the same
1349 Correspondance w/ Patrice, the client wants us to try one more time

3/18/25 SR/DV

1355 Hit Refusal again.
Sample @ lowest point
SB-14-11
@ 1400

1405 Louis offsite

1415 Turned in Keys, SR/DV offsite



SB-13

Top 3 inches (0-3")
Color 5YR5/4 reddish brown (2001 revision)
Fine sand with some gravels. up to 2cm
Low moisture, Loose soil, poorly sorted, subangular to subrounded

3" - 7"
Color: 5YR 2.5/2 dark reddish brown
Loose fine sand with some organics (roots)
Low moisture, more than sample above, well sorted, subangular to subrounded

7" - 14"
Color: 5YR 2.5/2 dark reddish brown
Hard soil, some gravels <1cm
low moisture, well sorted, subangular to subrounded

14" - 22"
Color: 5YR 5/4 reddish brown
Loose medium to course sand. gravels of quartz 0-2cm
Low to no moisture, poorly sorted, subangular.

22" - 26"
Color: 5YR 5/4 reddish brown
Fine Sand with gravels <1cm
Low moisture, moderately to well sorted, subrounded grains

26" - 31"
Color: 5YR 5/4 reddish brown
loose medium to course sand. Quartz gravels up to 2cm
low to no moisture, poorly sorted, angular to subangular

31" - 36"
Color: 5YR 3/2 dark reddish brown
Fine to medium loose sand with 1cm gravels and organics. Low to no moisture. Subrounded grains poorly sorted

36" - 41"
Color: 5YR 8/1 white
Coarse loose sand with gravels up to 4cm
Low moisture. Subangular to angular grains with quartz
poorly sorted

41" - 49"
Color: 5YR 4/4 reddish brown
medium to coarse loose sand. gravels up to 2cm
Low moisture. subangular to subrounded. poorly sorted.

49" - 60"
Color: 5YR 6/4 light reddish brown
with the top 4" being more light gray
Coarse loose sand with gravel. up to 4cm
Low moisture. Subangular grains. poorly sorted

60" - 65"
Color: 5YR 5/3 reddish brown
loose fine to medium sand. gravels up to 2cm
low moisture, moderately sorted, subangular grains

65" - 69"
Color: 5YR 4/6 yellowish red
loose fine to medium sand. gravels up to 2cm
Low moisture, moderately sorted, subangular grains

64" - 74"
Color: 5Y 4/2 Olive gray
Medium to fine loose sand with gravels up to 2 cm
Low moisture, moderately sorted, subangular to angular

74" - 84"
Color: 5YR 4/6 yellowish red
Medium to coarse loose sand with gravels up to 2cm
low to medium moisture, poorly sorted, angular

84" - 88"
Color: 5YR 8/1 white
Coarse loose sand with quartz gravels up to 2cm
low moisture, poorly sorted, sub angular

88" - 92"
Color: 5YR 4/4 reddish brown
fine loose sand with gravels up to 1cm
low moisture, moderately sorted, subangular

92" - 95"
Color: 5YR 8/1 white
Coarse loose sand with quartz gravels up to 2cm
low moisture, poorly sorted, angular

95" - 103"
Color: 5YR 5/3 yellowish red
fine to medium hard sand with gravels up to 2cm
medium moisture, little clay content, moderately sorted, subrounded

103" - 111"
Color: 5YR 4/2 dark reddish gray
Loose fine sand with a little clay: gravels < 0.5 cm
Some moisture, moderate to well sorted, subrounded

111" - 116"
~~Coarse~~ Color: 5YR 8/2 pinkish white
Course loose sand with gravels up to 4 cm
Low moisture, poorly sorted, subrounded to subangular

116" - ~~122~~ 133"
Color: 5YR 8/2 pinkish white
medium loose sand with gravels up to 1 cm
low moisture, poorly to moderately sorted, subrounded

133" - 144"
Color: 5YR 6/4 light reddish brown
Medium loose sand with gravels up to 2 cm
low moisture, poorly to moderately sorted, subrounded

144" - 149"
Color: 5YR 5/6 yellowish red
medium to fine loose sand with gravels up to 1 cm
low to medium moisture, moderately sorted, subangular

SB-14

0-11"
Color: 7.5YR 4/4 Brown
Fine to medium loose sand with gravels up to ~~2cm~~ 4cm
Some moisture, moderately sorted, Sub~~-~~rounded grains

11"-13"
Same as above, slightly more moisture

13"-16"
Color: 7.5YR 4/4 Brown
Coarse loose sand with gravels up to 3 cm
Some moisture, poorly sorted, Subrounded

16"-24"
Same as above
less moisture

24"-36"
Color: 7.5YR 5/6 Strong brown
hard medium to fine sand with gravels up to 1cm
Some moisture, moderately sorted, Subrounded

36"-39"
Same as above
more loose than above. Crumbles easily

39"-46"
Color: 7.5YR 5/4 Brown
Medium to fine loose sand with gravels up to 2cm
No moisture, moderately sorted, Subrounded

46" - 66"
Color: 7.5YR 4/6 Strong Brown
Coarse loose sand with gravels up to 2 cm
Low moisture, poorly sorted, angular

66" - 76"
Color: 5YR 4/4 Reddish Brown
Coarse loose sand with gravels up to 2 cm
low moisture, poorly sorted, Subangular

76" - 83"
Same as above with some 1-3 cm
gravels of ~~Color~~ Color 5GY 6/2
light grayish green

83" - 94"
Color: 7.5YR 4/3 Brown
Coarse loose sand with gravels up to 3cm
Low moisture, poorly sorted, subangular

94" - 114"
Same as above. Color changes
to 5YR 5/6 yellowish red

114" - 128"
Same as above. Some gravels
of color 5GY 4/2 dark grayish green

Attachment 2

Laboratory Analytical Report

DBS&A
a Geo-Logic Company

April 04, 2025

Enthalpy Analytical - El Dorado Hills
Work Order No. 2503202

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 March 20, 2025 under your Project Name 'Santa Fe PRWRF / DB24.1212.00.2.1'.

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,

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. 2503202
Case Narrative

Sample Condition on Receipt:

Six soil samples 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.

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.

A Method Blank, Laboratory Control Sample (LCS)/Laboratory Control Sample Duplicate (LCSD) and Low-Level Ongoing Precision and Recovery (OPR) sample were extracted and analyzed with the preparation batch. No analytes were detected in the Method Blank above 1/2 the Reporting Limit concentration. The OPR recoveries were within the method acceptance criteria.

The labeled standard recoveries outside the acceptance criteria are flagged with a "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.

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TABLE OF CONTENTS

Sample Inventory Report

Sample ID	Client Sample ID	Sampled	Received	Components/Containers
2503202-01	SB-13-5	18-Mar-25 11:25	20-Mar-25 09:58	HDPE Jar, 6 oz
2503202-02	SB-13-11	18-Mar-25 12:35	20-Mar-25 09:58	HDPE Jar, 6 oz
2503202-03	SB-14-5	18-Mar-25 13:20	20-Mar-25 09:58	HDPE Jar, 6 oz
2503202-04	SB-14-11	18-Mar-25 14:00	20-Mar-25 09:58	HDPE Jar, 6 oz
2503202-05	SB-15	18-Mar-25 13:20	20-Mar-25 09:58	HDPE Jar, 6 oz
2503202-06	Field Blank	18-Mar-25 11:00	20-Mar-25 09:58	HDPE Bottle, 500 mL
				HDPE Bottle, 500 mL

ANALYTICAL RESULTS

Sample ID: Method Blank **EPA Method 1633**

Client Data

Name: Hazen & Sawyer Matrix: Solid

Project: Santa Fe PRWRF / DB24.1212.00.2.1

Laboratory Data

Lab Sample: B25C169-BLK1 Column: BEH C18

Analyte		Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.801		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFMPA	377-73-1	ND	0.400		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
3:3 FTCA	356-02-5	ND	1.00		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFPeA	2706-90-3	ND	0.399		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFMBA	863090-89-5	ND	0.400		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFBS	375-73-5	ND	0.177		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
4:2 FTS	757124-72-4	ND	0.750		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFHxA	307-24-4	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFEESA	113507-82-7	ND	0.356		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFPeS	2706-91-4	ND	0.188		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
HFPO-DA	13252-13-6	ND	0.835		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
NFDHA	151772-58-6	ND	0.400		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
5:3 FTCA	914637-49-3	ND	5.00		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFHpA	375-85-9	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
ADONA	919005-14-4	ND	0.790		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFHxS	355-46-4	ND	0.183		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
6:2 FTS	27619-97-2	ND	0.759		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFOA	335-67-1	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFHpS	375-92-8	ND	0.190		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
7:3 FTCA	812-70-4	ND	5.00		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFNA	375-95-1	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFOSA	754-91-6	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFOS	1763-23-1	ND	0.186		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
9Cl-PF3ONS	756426-58-1	ND	0.780		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFDA	335-76-2	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
8:2 FTS	39108-34-4	ND	0.768		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFNS	68259-12-1	ND	0.192		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
MeFOSAA	2355-31-9	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
EtFOSAA	2991-50-6	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFUnA	2058-94-8	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFDS	335-77-3	ND	0.193		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
11Cl-PF3OUdS	763051-92-9	ND	0.790		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFDoA	307-55-1	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
MeFOSA	31506-32-8	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFTrDA	72629-94-8	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFDoS	79780-39-5	ND	0.194		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
PFTeDA	376-06-7	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
EtFOSA	4151-50-2	ND	0.200		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1

Sample ID: Method Blank

EPA Method 1633

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Solid

Laboratory Data

Lab Sample: B25C169-BLK1
Column: BEH C18

Analyte		Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	24448-09-7	ND	2.00		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
EtFOSE	1691-99-2	ND	2.00		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	95.2	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C5-PFPeA	IS	84.0	35 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C2-4:2 FTS	IS	89.9	40 - 165		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C3-PFBS	IS	97.6	40 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C5-PFHxA	IS	88.7	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C4-PFHpA	IS	97.3	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C3-HFPO-DA	IS	85.4	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C2-6:2 FTS	IS	88.5	40 - 215		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C8-PFOA	IS	92.3	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C3-PFHxS	IS	95.2	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C9-PFNA	IS	90.6	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C2-8:2 FTS	IS	88.2	40 - 275		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C6-PFDA	IS	76.2	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
d3-MeFOSAA	IS	94.1	40 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C8-PFOS	IS	94.7	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
d5-EtFOSAA	IS	95.2	40 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C7-PFUnA	IS	89.6	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C8-PFOSA	IS	92.7	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C2-PFDoA	IS	85.2	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
13C2-PFTeDA	IS	82.7	20 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
d7-MeFOSE	IS	53.5	20 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
d3-MeFOSA	IS	54.4	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
d9-EtFOSE	IS	41.8	15 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	1
d5-EtFOSA	IS	35.3	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 01:46	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

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Solid

Laboratory Data

Lab Sample: B25C169-BS1
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	1.96	2.00	98.1	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFMPA	377-73-1	1.11	1.00	111	30 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
3:3 FTCA	356-02-5	2.88	2.50	115	45 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFPeA	2706-90-3	1.10	1.00	110	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFMBA	863090-89-5	1.27	1.00	127	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFBS	375-73-5	0.433	0.444	97.5	65 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
4:2 FTS	757124-72-4	1.76	1.88	94.0	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFHxA	307-24-4	0.523	0.500	105	65 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFEESA	113507-82-7	0.924	0.888	104	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFPeS	2706-91-4	0.443	0.472	93.9	55 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
HFPO-DA	13252-13-6	2.01	2.12	94.8	70 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
NFDHA	151772-58-6	0.980	1.00	98.0	60 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
5:3 FTCA	914637-49-3	11.4	12.5	91.3	60 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFHpA	375-85-9	0.469	0.500	93.8	65 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
ADONA	919005-14-4	1.93	2.00	96.5	70 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFHxS	355-46-4	0.432	0.456	94.7	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
6:2 FTS	27619-97-2	1.92	1.90	101	55 - 200		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFOA	335-67-1	0.532	0.500	106	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFHpS	375-92-8	0.455	0.476	95.6	65 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
7:3 FTCA	812-70-4	11.6	12.5	93.2	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFNA	375-95-1	0.586	0.500	117	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFOSA	754-91-6	0.491	0.500	98.2	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFOS	1763-23-1	0.438	0.464	94.4	65 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
9Cl-PF3ONS	756426-58-1	1.94	1.98	97.7	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFDA	335-76-2	0.556	0.500	111	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
8:2 FTS	39108-34-4	1.89	1.92	98.2	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFNS	68259-12-1	0.478	0.480	99.6	55 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
MeFOSAA	2355-31-9	0.480	0.500	96.0	65 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
EtFOSAA	2991-50-6	0.483	0.500	96.6	65 - 165		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFUnA	2058-94-8	0.506	0.500	101	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFDS	335-77-3	0.477	0.484	98.6	40 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
11Cl-PF3OUdS	763051-92-9	2.00	2.00	100	45 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFDoA	307-55-1	0.465	0.500	93.0	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
MeFOSA	31506-32-8	0.507	0.500	101	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1

Sample ID: OPR **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Solid

Laboratory Data

Lab Sample: B25C169-BS1
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTrDA	72629-94-8	0.531	0.500	106	65 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFDoS	79780-39-5	0.495	0.484	102	25 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
PFTeDA	376-06-7	0.501	0.500	100	65 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
EtFOSA	4151-50-2	0.486	0.500	97.2	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
MeFOSE	24448-09-7	4.44	5.00	88.8	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
EtFOSE	1691-99-2	4.89	5.00	97.7	70 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	95.7	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C5-PFPeA	IS	77.6	35 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C2-4:2 FTS	IS	109	40 - 165		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C3-PFBS	IS	103	40 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C5-PFHxA	IS	84.8	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C4-PFHpA	IS	91.4	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C3-HFPO-DA	IS	91.6	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C2-6:2 FTS	IS	101	40 - 215		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C8-PFOA	IS	94.1	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C3-PFHxS	IS	103	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C9-PFNA	IS	91.4	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C2-8:2 FTS	IS	100	40 - 275		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C6-PFDA	IS	79.3	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
d3-MeFOSAA	IS	93.3	40 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C8-PFOS	IS	102	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
d5-EtFOSAA	IS	96.7	40 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C7-PFUnA	IS	94.7	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C8-PFOSA	IS	99.9	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C2-PFDoA	IS	90.5	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
13C2-PFTeDA	IS	91.9	20 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
d7-MeFOSE	IS	46.8	20 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
d3-MeFOSA	IS	49.0	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
d9-EtFOSE	IS	35.6	15 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1
d5-EtFOSA	IS	33.3	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:00	1

Sample ID: OPR **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Solid

Laboratory Data

Lab Sample: B25C169-BS2
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	1.68	1.60	105	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFMPA	377-73-1	0.995	0.800	124	30 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
3:3 FTCA	356-02-5	2.35	2.00	118	45 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFPeA	2706-90-3	0.987	0.800	123	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFMBA	863090-89-5	0.976	0.800	122	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFBS	375-73-5	0.419	0.355	118	65 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
4:2 FTS	757124-72-4	1.54	1.50	103	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFHxA	307-24-4	0.417	0.400	104	65 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFEESA	113507-82-7	0.721	0.712	101	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFPeS	2706-91-4	0.388	0.376	103	55 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
HFPO-DA	13252-13-6	1.70	1.60	107	70 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
NFDHA	151772-58-6	0.848	0.800	106	60 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
5:3 FTCA	914637-49-3	9.22	10.0	92.2	60 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFHpA	375-85-9	0.393	0.400	98.3	65 - 145		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
ADONA	919005-14-4	1.53	1.51	101	70 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFHxS	355-46-4	0.371	0.366	101	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
6:2 FTS	27619-97-2	1.60	1.52	105	55 - 200		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFOA	335-67-1	0.495	0.400	124	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFHpS	375-92-8	0.403	0.381	106	65 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
7:3 FTCA	812-70-4	9.21	10.0	92.1	60 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFNA	375-95-1	0.477	0.400	119	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFOSA	754-91-6	0.435	0.400	109	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFOS	1763-23-1	0.369	0.371	99.4	65 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
9Cl-PF3ONS	756426-58-1	1.63	1.50	109	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFDA	335-76-2	0.470	0.400	118	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
8:2 FTS	39108-34-4	1.56	1.54	102	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFNS	68259-12-1	0.427	0.385	111	55 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
MeFOSAA	2355-31-9	0.368	0.400	92.0	65 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
EtFOSAA	2991-50-6	0.383	0.400	95.8	65 - 165		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFUnA	2058-94-8	0.465	0.400	116	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFDS	335-77-3	0.409	0.386	106	40 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
11Cl-PF3OUdS	763051-92-9	1.65	1.51	109	45 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFDoA	307-55-1	0.357	0.400	89.3	70 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
MeFOSA	31506-32-8	0.366	0.400	91.5	70 - 155		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1

Sample ID: OPR **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Solid

Laboratory Data

Lab Sample: B25C169-BS2
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/g)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTrDA	72629-94-8	0.432	0.400	108	65 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFDoS	79780-39-5	0.405	0.388	104	25 - 160		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
PFTeDA	376-06-7	0.446	0.400	112	65 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
EtFOSA	4151-50-2	0.419	0.400	105	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
MeFOSE	24448-09-7	4.07	4.00	102	70 - 140		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
EtFOSE	1691-99-2	4.34	4.00	109	70 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	93.6	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C5-PFPeA	IS	73.7	35 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C2-4:2 FTS	IS	93.9	40 - 165		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C3-PFBS	IS	89.1	40 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C5-PFHxA	IS	87.3	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C4-PFHpA	IS	93.2	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C3-HFPO-DA	IS	85.2	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C2-6:2 FTS	IS	92.7	40 - 215		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C8-PFOA	IS	84.4	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C3-PFHxS	IS	92.3	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C9-PFNA	IS	88.5	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C2-8:2 FTS	IS	91.4	40 - 275		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C6-PFDA	IS	76.3	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
d3-MeFOSAA	IS	88.2	40 - 135		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C8-PFOS	IS	86.6	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
d5-EtFOSAA	IS	85.1	40 - 150		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C7-PFUnA	IS	90.6	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C8-PFOSA	IS	81.8	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C2-PFDoA	IS	90.6	40 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
13C2-PFTeDA	IS	81.4	20 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
d7-MeFOSE	IS	60.8	20 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
d3-MeFOSA	IS	61.2	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
d9-EtFOSE	IS	51.1	15 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1
d5-EtFOSA	IS	39.9	10 - 130		B25C169	24-Mar-25	5.00 g	26-Mar-25 02:13	1

Sample ID: SB-13-5 **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 11:25

Laboratory Data

Lab Sample: 2503202-01
Date Received: 20-Mar-25 09:58
% Solids: 96.0
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.799		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFMPA	377-73-1	ND	0.399		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
3:3 FTCA	356-02-5	ND	0.998		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFPeA	2706-90-3	ND	0.398		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFMBA	863090-89-5	ND	0.399		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFBS	375-73-5	ND	0.177		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
4:2 FTS	757124-72-4	ND	0.748		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFHxA	307-24-4	0.599	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFEESA	113507-82-7	ND	0.355		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFPeS	2706-91-4	ND	0.188		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
HFPO-DA	13252-13-6	ND	0.833		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
NFDHA	151772-58-6	ND	0.399		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
5:3 FTCA	914637-49-3	ND	4.99		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFHpA	375-85-9	0.368	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
ADONA	919005-14-4	ND	0.788		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFHxS	355-46-4	ND	0.183		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
6:2 FTS	27619-97-2	ND	0.757		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFOA	335-67-1	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFHpS	375-92-8	ND	0.190		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
7:3 FTCA	812-70-4	ND	4.99		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFNA	375-95-1	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFOSA	754-91-6	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFOS	1763-23-1	0.420	0.186		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
9Cl-PF3ONS	756426-58-1	ND	0.778		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFDA	335-76-2	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
8:2 FTS	39108-34-4	ND	0.766		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFNS	68259-12-1	ND	0.192		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
MeFOSAA	2355-31-9	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
EtFOSAA	2991-50-6	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFUnA	2058-94-8	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFDS	335-77-3	ND	0.193		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
11Cl-PF3OUdS	763051-92-9	ND	0.788		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFDoA	307-55-1	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
MeFOSA	31506-32-8	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFTrDA	72629-94-8	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFDoS	79780-39-5	ND	0.194		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
PFTeDA	376-06-7	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1

Sample ID: SB-13-5

EPA Method 1633

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 11:25

Laboratory Data

Lab Sample: 2503202-01
Date Received: 20-Mar-25 09:58
% Solids: 96.0
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	4151-50-2	ND	0.200		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
MeFOSE	24448-09-7	ND	2.00		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
EtFOSE	1691-99-2	ND	2.00		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	95.0	10 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C5-PFPeA	IS	83.2	35 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C2-4:2 FTS	IS	92.2	40 - 165		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C3-PFBS	IS	94.3	40 - 135		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C5-PFHxA	IS	83.6	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C4-PFHpA	IS	95.7	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C3-HFPO-DA	IS	88.9	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C2-6:2 FTS	IS	93.8	40 - 215		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C8-PFOA	IS	91.8	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C3-PFHxS	IS	99.1	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C9-PFNA	IS	94.3	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C2-8:2 FTS	IS	89.9	40 - 275		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C6-PFDA	IS	89.1	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
d3-MeFOSAA	IS	86.9	40 - 135		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C8-PFOS	IS	91.8	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
d5-EtFOSAA	IS	90.4	40 - 150		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C7-PFUnA	IS	99.6	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C8-PFOSA	IS	92.4	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C2-PFDoA	IS	91.5	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
13C2-PFTeDA	IS	90.2	20 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
d7-MeFOSE	IS	66.3	20 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
d3-MeFOSA	IS	42.4	10 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
d9-EtFOSE	IS	55.7	15 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	1
d5-EtFOSA	IS	27.2	10 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:21	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-13-11 **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 12:35

Laboratory Data

Lab Sample: 2503202-02
Date Received: 20-Mar-25 09:58
% Solids: 95.5
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.799		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFMPA	377-73-1	ND	0.399		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
3:3 FTCA	356-02-5	ND	0.997		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFPeA	2706-90-3	0.446	0.398		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFMBA	863090-89-5	ND	0.399		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFBS	375-73-5	ND	0.177		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
4:2 FTS	757124-72-4	ND	0.748		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFHxA	307-24-4	0.501	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFEESA	113507-82-7	ND	0.355		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFPeS	2706-91-4	ND	0.188		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
HFPO-DA	13252-13-6	ND	0.833		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
NFDHA	151772-58-6	ND	0.399		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
5:3 FTCA	914637-49-3	ND	4.99		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFHpA	375-85-9	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
ADONA	919005-14-4	ND	0.788		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFHxS	355-46-4	ND	0.183		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
6:2 FTS	27619-97-2	ND	0.757		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFOA	335-67-1	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFHpS	375-92-8	ND	0.190		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
7:3 FTCA	812-70-4	ND	4.99		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFNA	375-95-1	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFOSA	754-91-6	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFOS	1763-23-1	ND	0.186		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
9Cl-PF3ONS	756426-58-1	ND	0.778		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFDA	335-76-2	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
8:2 FTS	39108-34-4	ND	0.766		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFNS	68259-12-1	ND	0.192		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
MeFOSAA	2355-31-9	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
EtFOSAA	2991-50-6	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFUnA	2058-94-8	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFDS	335-77-3	ND	0.192		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
11Cl-PF3OUdS	763051-92-9	ND	0.788		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFDoA	307-55-1	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
MeFOSA	31506-32-8	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFTrDA	72629-94-8	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFDoS	79780-39-5	ND	0.193		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
PFTeDA	376-06-7	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1

Sample ID: SB-13-11

EPA Method 1633

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 12:35

Laboratory Data

Lab Sample: 2503202-02
Date Received: 20-Mar-25 09:58
% Solids: 95.5
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	4151-50-2	ND	0.199		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
MeFOSE	24448-09-7	ND	1.99		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
EtFOSE	1691-99-2	ND	1.99		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	94.1	10 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C5-PFPeA	IS	80.6	35 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C2-4:2 FTS	IS	106	40 - 165		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C3-PFBS	IS	97.3	40 - 135		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C5-PFHxA	IS	89.6	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C4-PFHpA	IS	105	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C3-HFPO-DA	IS	91.5	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C2-6:2 FTS	IS	96.7	40 - 215		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C8-PFOA	IS	89.0	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C3-PFHxS	IS	100	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C9-PFNA	IS	90.0	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C2-8:2 FTS	IS	92.7	40 - 275		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C6-PFDA	IS	80.3	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
d3-MeFOSAA	IS	84.0	40 - 135		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C8-PFOS	IS	90.4	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
d5-EtFOSAA	IS	87.8	40 - 150		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C7-PFUnA	IS	96.7	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C8-PFOSA	IS	89.2	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C2-PFDoA	IS	94.1	40 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
13C2-PFTeDA	IS	92.4	20 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
d7-MeFOSE	IS	70.5	20 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
d3-MeFOSA	IS	26.1	10 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
d9-EtFOSE	IS	58.6	15 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	1
d5-EtFOSA	IS	18.2	10 - 130		B25C169	24-Mar-25	5.25 g	26-Mar-25 06:35	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-14-5 **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 13:20

Laboratory Data

Lab Sample: 2503202-03
Date Received: 20-Mar-25 09:58
% Solids: 96.2
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.797		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFMPA	377-73-1	ND	0.398		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
3:3 FTCA	356-02-5	ND	0.995		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFPeA	2706-90-3	ND	0.397		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFMBA	863090-89-5	ND	0.398		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFBS	375-73-5	ND	0.176		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
4:2 FTS	757124-72-4	ND	0.746		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFHxA	307-24-4	0.257	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFEESA	113507-82-7	ND	0.354		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFPeS	2706-91-4	ND	0.187		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
HFPO-DA	13252-13-6	ND	0.831		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
NFDHA	151772-58-6	ND	0.398		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
5:3 FTCA	914637-49-3	ND	4.98		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFHpA	375-85-9	0.318	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
ADONA	919005-14-4	ND	0.786		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFHxS	355-46-4	ND	0.182		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
6:2 FTS	27619-97-2	ND	0.755		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFOA	335-67-1	0.305	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFHpS	375-92-8	ND	0.189		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
7:3 FTCA	812-70-4	ND	4.98		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFNA	375-95-1	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFOSA	754-91-6	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFOS	1763-23-1	ND	0.185		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
9Cl-PF3ONS	756426-58-1	ND	0.776		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFDA	335-76-2	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
8:2 FTS	39108-34-4	ND	0.764		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFNS	68259-12-1	ND	0.191		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
MeFOSAA	2355-31-9	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
EtFOSAA	2991-50-6	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFUnA	2058-94-8	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFDS	335-77-3	ND	0.192		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
11Cl-PF3OUdS	763051-92-9	ND	0.786		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFDoA	307-55-1	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
MeFOSA	31506-32-8	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFTrDA	72629-94-8	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFDoS	79780-39-5	ND	0.193		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
PFTeDA	376-06-7	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1

Sample ID: SB-14-5

EPA Method 1633

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 13:20

Laboratory Data

Lab Sample: 2503202-03
Date Received: 20-Mar-25 09:58
% Solids: 96.2
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	4151-50-2	ND	0.199		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
MeFOSE	24448-09-7	ND	1.99		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
EtFOSE	1691-99-2	ND	1.99		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	96.3	10 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C5-PFPeA	IS	81.3	35 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C2-4:2 FTS	IS	99.8	40 - 165		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C3-PFBS	IS	94.2	40 - 135		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C5-PFHxA	IS	93.4	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C4-PFHpA	IS	101	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C3-HFPO-DA	IS	92.6	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C2-6:2 FTS	IS	89.4	40 - 215		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C8-PFOA	IS	93.0	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C3-PFHxS	IS	102	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C9-PFNA	IS	96.7	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C2-8:2 FTS	IS	92.9	40 - 275		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C6-PFDA	IS	82.0	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
d3-MeFOSAA	IS	84.3	40 - 135		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C8-PFOS	IS	98.1	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
d5-EtFOSAA	IS	82.2	40 - 150		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C7-PFUnA	IS	97.5	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C8-PFOSA	IS	92.9	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C2-PFDoA	IS	90.2	40 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
13C2-PFTeDA	IS	84.6	20 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
d7-MeFOSE	IS	54.7	20 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
d3-MeFOSA	IS	16.6	10 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
d9-EtFOSE	IS	39.6	15 - 130		B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	1
d5-EtFOSA	IS	9.40	10 - 130	Q	B25C169	24-Mar-25	5.22 g	26-Mar-25 06:49	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-14-11 **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 14:00

Laboratory Data

Lab Sample: 2503202-04
Date Received: 20-Mar-25 09:58
% Solids: 95.3
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.798		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFMPA	377-73-1	ND	0.398		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
3:3 FTCA	356-02-5	ND	0.996		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFPeA	2706-90-3	ND	0.397		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFMBA	863090-89-5	ND	0.398		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFBS	375-73-5	ND	0.176		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
4:2 FTS	757124-72-4	ND	0.747		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFHxA	307-24-4	0.307	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFEESA	113507-82-7	ND	0.355		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFPeS	2706-91-4	ND	0.187		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
HFPO-DA	13252-13-6	ND	0.832		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
NFDHA	151772-58-6	ND	0.398		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
5:3 FTCA	914637-49-3	ND	4.98		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFHpA	375-85-9	0.206	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
ADONA	919005-14-4	ND	0.787		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFHxS	355-46-4	ND	0.182		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
6:2 FTS	27619-97-2	ND	0.756		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFOA	335-67-1	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFHpS	375-92-8	ND	0.189		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
7:3 FTCA	812-70-4	ND	4.98		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFNA	375-95-1	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFOSA	754-91-6	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFOS	1763-23-1	ND	0.185		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
9Cl-PF3ONS	756426-58-1	ND	0.777		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFDA	335-76-2	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
8:2 FTS	39108-34-4	ND	0.765		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFNS	68259-12-1	ND	0.191		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
MeFOSAA	2355-31-9	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
EtFOSAA	2991-50-6	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFUnA	2058-94-8	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFDS	335-77-3	ND	0.192		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
11Cl-PF3OUdS	763051-92-9	ND	0.787		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFDoA	307-55-1	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
MeFOSA	31506-32-8	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFTrDA	72629-94-8	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFDoS	79780-39-5	ND	0.193		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
PFTeDA	376-06-7	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1

Sample ID: SB-14-11

EPA Method 1633

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 14:00

Laboratory Data

Lab Sample: 2503202-04
Date Received: 20-Mar-25 09:58
% Solids: 95.3
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	4151-50-2	ND	0.199		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
MeFOSE	24448-09-7	ND	1.99		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
EtFOSE	1691-99-2	ND	1.99		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	96.2	10 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C5-PFPeA	IS	82.0	35 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C2-4:2 FTS	IS	93.3	40 - 165		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C3-PFBS	IS	93.4	40 - 135		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C5-PFHxA	IS	86.7	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C4-PFHpA	IS	99.7	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C3-HFPO-DA	IS	91.6	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C2-6:2 FTS	IS	88.3	40 - 215		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C8-PFOA	IS	84.5	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C3-PFHxS	IS	97.6	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C9-PFNA	IS	98.7	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C2-8:2 FTS	IS	97.2	40 - 275		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C6-PFDA	IS	84.1	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
d3-MeFOSAA	IS	81.6	40 - 135		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C8-PFOS	IS	95.1	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
d5-EtFOSAA	IS	83.4	40 - 150		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C7-PFUnA	IS	103	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C8-PFOSA	IS	88.0	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C2-PFDoA	IS	91.0	40 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
13C2-PFTeDA	IS	87.5	20 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
d7-MeFOSE	IS	54.5	20 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
d3-MeFOSA	IS	24.8	10 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
d9-EtFOSE	IS	42.7	15 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	1
d5-EtFOSA	IS	17.0	10 - 130		B25C169	24-Mar-25	5.27 g	26-Mar-25 07:02	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-15 **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 13:20

Laboratory Data

Lab Sample: 2503202-05
Date Received: 20-Mar-25 09:58
% Solids: 96.7
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.796		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFMPA	377-73-1	ND	0.398		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
3:3 FTCA	356-02-5	ND	0.994		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFPeA	2706-90-3	ND	0.397		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFMBA	863090-89-5	ND	0.398		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFBS	375-73-5	ND	0.176		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
4:2 FTS	757124-72-4	ND	0.746		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFHxA	307-24-4	0.294	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFEESA	113507-82-7	ND	0.354		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFPeS	2706-91-4	ND	0.187		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
HFPO-DA	13252-13-6	ND	0.830		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
NFDHA	151772-58-6	ND	0.398		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
5:3 FTCA	914637-49-3	ND	4.97		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFHpA	375-85-9	0.333	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
ADONA	919005-14-4	ND	0.786		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFHxS	355-46-4	ND	0.182		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
6:2 FTS	27619-97-2	ND	0.755		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFOA	335-67-1	0.332	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFHpS	375-92-8	ND	0.189		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
7:3 FTCA	812-70-4	ND	4.97		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFNA	375-95-1	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFOSA	754-91-6	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFOS	1763-23-1	ND	0.185		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
9Cl-PF3ONS	756426-58-1	ND	0.776		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFDA	335-76-2	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
8:2 FTS	39108-34-4	ND	0.764		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFNS	68259-12-1	ND	0.191		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
MeFOSAA	2355-31-9	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
EtFOSAA	2991-50-6	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFUnA	2058-94-8	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFDS	335-77-3	ND	0.192		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
11Cl-PF3OUdS	763051-92-9	ND	0.786		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFDoA	307-55-1	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
MeFOSA	31506-32-8	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFTrDA	72629-94-8	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFDoS	79780-39-5	ND	0.193		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
PFTeDA	376-06-7	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1

Sample ID: SB-15

EPA Method 1633

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Soil
Date Collected: 18-Mar-25 13:20

Laboratory Data

Lab Sample: 2503202-05
Date Received: 20-Mar-25 09:58
% Solids: 96.7
Column: BEH C18

Analyte	CAS Number	Conc. (ng/g)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	4151-50-2	ND	0.199		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
MeFOSE	24448-09-7	ND	1.99		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
EtFOSE	1691-99-2	ND	1.99		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	95.1	10 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C5-PFPeA	IS	81.0	35 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C2-4:2 FTS	IS	101	40 - 165		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C3-PFBS	IS	94.3	40 - 135		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C5-PFHxA	IS	87.9	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C4-PFHpA	IS	96.0	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C3-HFPO-DA	IS	90.6	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C2-6:2 FTS	IS	92.4	40 - 215		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C8-PFOA	IS	93.4	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C3-PFHxS	IS	95.9	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C9-PFNA	IS	100	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C2-8:2 FTS	IS	91.9	40 - 275		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C6-PFDA	IS	86.0	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
d3-MeFOSAA	IS	80.9	40 - 135		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C8-PFOS	IS	90.1	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
d5-EtFOSAA	IS	83.0	40 - 150		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C7-PFUnA	IS	104	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C8-PFOSA	IS	83.9	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C2-PFDoA	IS	92.5	40 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
13C2-PFTeDA	IS	91.7	20 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
d7-MeFOSE	IS	38.2	20 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
d3-MeFOSA	IS	11.9	10 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
d9-EtFOSE	IS	29.4	15 - 130		B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	1
d5-EtFOSA	IS	7.17	10 - 130	Q	B25C169	24-Mar-25	5.20 g	26-Mar-25 07:16	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: Method Blank **EPA Method 1633**

Client Data
Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Aqueous

Laboratory Data
Lab Sample: B25C183-BLK1
Column: BEH C18

Analyte		Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	6.40		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFMPA	377-73-1	ND	3.20		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
3:3 FTCA	356-02-5	ND	8.00		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFPeA	2706-90-3	ND	3.20		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFMBA	863090-89-5	ND	3.20		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFBS	375-73-5	ND	1.42		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
4:2 FTS	757124-72-4	ND	6.00		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFHxA	307-24-4	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFEESA	113507-82-7	ND	2.85		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFPeS	2706-91-4	ND	1.50		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
HFPO-DA	13252-13-6	ND	6.68		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
NFDHA	151772-58-6	ND	3.20		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
5:3 FTCA	914637-49-3	ND	40.0		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFHpA	375-85-9	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
ADONA	919005-14-4	ND	6.32		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFHxS	355-46-4	ND	1.46		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
6:2 FTS	27619-97-2	ND	6.07		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFOA	335-67-1	ND	2.00		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFHpS	375-92-8	ND	1.52		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
7:3 FTCA	812-70-4	ND	40.0		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFNA	375-95-1	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFOSA	754-91-6	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFOS	1763-23-1	ND	1.49		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
9Cl-PF3ONS	756426-58-1	ND	6.24		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFDA	335-76-2	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
8:2 FTS	39108-34-4	ND	6.14		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFNS	68259-12-1	ND	1.54		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
MeFOSAA	2355-31-9	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
EtFOSAA	2991-50-6	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFUnA	2058-94-8	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFDS	335-77-3	ND	1.54		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
11Cl-PF3OUdS	763051-92-9	ND	6.00		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFDoA	307-55-1	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
MeFOSA	31506-32-8	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFTrDA	72629-94-8	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFDoS	79780-39-5	ND	1.55		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
PFTeDA	376-06-7	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
EtFOSA	4151-50-2	ND	1.60		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1

Sample ID: Method Blank **EPA Method 1633**

Client Data

Name: Hazen & Sawyer Matrix: Aqueous

Project: Santa Fe PRWRF / DB24.1212.00.2.1

Laboratory Data

Lab Sample: B25C183-BLK1 Column: BEH C18

Analyte		Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSE	24448-09-7	ND	16.0		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
EtFOSE	1691-99-2	ND	16.0		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	91.7	10 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C5-PFPeA	IS	91.5	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C2-4:2 FTS	IS	90.8	40 - 200		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C3-PFBS	IS	90.4	40 - 135		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C5-PFHxA	IS	85.8	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C4-PFHpA	IS	97.2	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C3-HFPO-DA	IS	99.9	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C2-6:2 FTS	IS	88.4	40 - 200		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C8-PFOA	IS	90.8	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C3-PFHxS	IS	94.9	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C9-PFNA	IS	89.3	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C2-8:2 FTS	IS	81.4	40 - 300		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C6-PFDA	IS	72.3	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
d3-MeFOSAA	IS	71.1	40 - 170		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C8-PFOS	IS	88.5	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
d5-EtFOSAA	IS	67.1	25 - 135		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C7-PFUnA	IS	69.7	30 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C8-PFOSA	IS	58.0	40 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C2-PFDoA	IS	60.3	10 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
13C2-PFTeDA	IS	67.6	10 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
d7-MeFOSE	IS	41.5	10 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
d3-MeFOSA	IS	34.0	10 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
d9-EtFOSE	IS	36.6	10 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1
d5-EtFOSA	IS	32.6	10 - 130		B25C183	24-Mar-25	0.500 L	26-Mar-25 10:01	1

RL - Reporting limit Results reported to RL.

Sample ID: LCSD **EPA Method 1633**

Name:	Hazen & Sawyer	Lab Sample:	B25C183-BS1/B25C183-BSD1
Project:	Santa Fe PRWRF / DB24.1212.00.2.1	QC Batch:	B25C183
Matrix:	Aqueous	Samp Size:	0.500/0.500 L
		Date Extracted:	24-Mar-25
		Column:	BEH C18

Analyte	CAS Number	LCS (ng/L)	LCS Spike	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
PFBA	375-22-4	19.2	20.0	96.0		19.6	20.0	97.9	1.89		70-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFMPA	377-73-1	9.27	10.0	92.7		9.42	10.0	94.2	1.63		55-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
3:3 FTCA	356-02-5	23.5	25.0	94.2		23.3	25.0	93.2	1.01		65-130	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFPeA	2706-90-3	10.6	10.0	106		10.4	10.0	104	1.61		65-135	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFMBA	863090-89-5	9.03	10.0	90.3		10.4	10.0	104	14.0		60-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFBS	375-73-5	4.36	4.44	98.2		4.66	4.44	105	6.63		60-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
4:2 FTS	757124-72-4	17.6	18.8	93.8		17.8	18.8	94.7	1.06		70-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFHxA	307-24-4	5.28	5.00	106		4.75	5.00	94.9	10.6		70-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFEESA	113507-82-7	9.41	8.88	106		8.26	8.88	93.1	13.0		70-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFPeS	2706-91-4	4.33	4.72	91.7		4.46	4.72	94.4	2.89		65-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
HFPO-DA	13252-13-6	20.8	21.2	98.1		20.8	21.2	98.2	0.159		70-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
NFDHA	151772-58-6	10.4	10.0	104		8.79	10.0	87.9	16.5		50-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
5:3 FTCA	914637-49-3	117	125	93.5		102	125	81.8	13.4		70-135	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFHpA	375-85-9	4.63	5.00	92.6		4.69	5.00	93.8	1.22		70-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
ADONA	919005-14-4	20.0	20.0	99.8		18.7	20.0	93.7	6.27		65-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFHxS	355-46-4	4.19	4.56	91.8		4.07	4.56	89.3	2.83		65-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
6:2 FTS	27619-97-2	19.7	19.0	104		19.3	19.0	102	2.04		65-155	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFOA	335-67-1	5.64	5.00	113		5.08	5.00	102	10.5		70-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFHpS	375-92-8	4.70	4.76	98.8		5.01	4.76	105	6.34		70-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
7:3 FTCA	812-70-4	111	125	89.3		97.3	125	77.9	13.6		50-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFNA	375-95-1	5.65	5.00	113		5.57	5.00	111	1.43		70-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFOSA	754-91-6	4.68	5.00	93.5		5.10	5.00	102	8.60		70-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFOS	1763-23-1	4.26	4.64	91.7		4.64	4.64	100	8.74		55-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
9Cl-PF3ONS	756426-58-1	17.9	19.8	90.7		16.8	19.8	85.0	6.49		70-155	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFDA	335-76-2	4.62	5.00	92.3		5.49	5.00	110	17.4		70-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
8:2 FTS	39108-34-4	17.5	19.2	91.2		20.3	19.2	106	14.7		60-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFNS	68259-12-1	4.34	4.80	90.3		4.60	4.80	95.9	5.95		65-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
MeFOSAA	2355-31-9	4.01	5.00	80.3		4.36	5.00	87.1	8.22		50-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
EtFOSAA	2991-50-6	4.66	5.00	93.2		4.64	5.00	92.8	0.430		70-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFUnA	2058-94-8	4.98	5.00	99.6		5.20	5.00	104	4.42		70-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFDS	335-77-3	3.57	4.84	73.8		3.87	4.84	80.0	8.04		60-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
11Cl-PF3OUdS	763051-92-9	14.7	20.0	73.7		14.0	20.0	69.9	5.22		55-160	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFDoA	307-55-1	4.55	5.00	91.1		4.40	5.00	88.0	3.40		70-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1

Sample ID: LCSD **EPA Method 1633**

Name:	Hazen & Sawyer	Lab Sample:	B25C183-BS1/B25C183-BSD1
Project:	Santa Fe PRWRF / DB24.1212.00.2.1	QC Batch:	B25C183
Matrix:	Aqueous	Samp Size:	0.500/0.500 L
		Date Extracted:	24-Mar-25
		Column:	BEH C18

Analyte	CAS Number	LCS (ng/L)	LCS Spike	LCS % Rec	LCS Quals	LCSD (ng/L)	LCSD Spike	LCSD % Rec	RPD	LCSD Quals	%Rec Limits	RPD Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
MeFOSA	31506-32-8	4.30	5.00	85.9		4.57	5.00	91.3	6.12		60-150	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFTrDA	72629-94-8	4.95	5.00	99.0		4.59	5.00	91.9	7.44		65-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFDoS	79780-39-5	3.85	4.84	79.5		4.02	4.84	83.0	4.25		50-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
PFTeDA	376-06-7	5.03	5.00	101		4.50	5.00	90.0	11.1		60-140	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
EtFOSA	4151-50-2	4.35	5.00	87.1		4.46	5.00	89.2	2.43		65-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
MeFOSE	24448-09-7	43.0	50.0	86.0		43.3	50.0	86.6	0.725		70-145	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1
EtFOSE	1691-99-2	49.9	50.0	99.7		46.3	50.0	92.7	7.32		70-135	30	26-Mar-25 10:15	1	25-Mar-25 20:57	1

Labeled Standards	Type	LCS % Rec	LCS Quals	LCSD % Rec	LCSD Quals	Limits	LCS Analyzed	LCS Dil	LCSD Analyzed	LCSD Dil
13C4-PFBA	IS	88.8		84.4		10 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C5-PFPeA	IS	87.3		76.9		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C2-4:2 FTS	IS	83.8		90.8		40 - 200	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C3-PFBS	IS	89.5		83.9		40 - 135	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C5-PFHxA	IS	80.5		80.5		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C4-PFHpA	IS	91.8		83.3		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C3-HFPO-DA	IS	84.7		76.5		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C2-6:2 FTS	IS	79.6		82.2		40 - 200	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C8-PFOA	IS	81.1		80.9		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C3-PFHxS	IS	88.4		89.6		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C9-PFNA	IS	83.3		84.8		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C2-8:2 FTS	IS	82.4		76.2		40 - 300	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C6-PFDA	IS	81.9		63.9		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
d3-MeFOSAA	IS	69.7		71.6		40 - 170	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C8-PFOS	IS	81.9		80.8		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
d5-EtFOSAA	IS	62.0		67.3		25 - 135	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C7-PFUnA	IS	72.7		65.3		30 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C8-PFOSA	IS	57.8		58.1		40 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C2-PFDoA	IS	61.4		57.9		10 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
13C2-PFTeDA	IS	66.0		62.0		10 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
d7-MeFOSE	IS	40.0		40.0		10 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
d3-MeFOSA	IS	35.4		34.7		10 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
d9-EtFOSE	IS	32.4		34.3		10 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1
d5-EtFOSA	IS	29.2		29.8		10 - 130	26-Mar-25 10:15	1	25-Mar-25 20:57	1

Sample ID: OPR **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Aqueous

Laboratory Data

Lab Sample: B25C183-BS2
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	12.7	12.8	99.5	70 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFMPA	377-73-1	6.27	6.40	98.0	55 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
3:3 FTCA	356-02-5	15.4	16.0	96.4	65 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFPeA	2706-90-3	6.78	6.40	106	65 - 135		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFMBA	863090-89-5	6.40	6.40	99.9	60 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFBS	375-73-5	2.87	2.84	101	60 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
4:2 FTS	757124-72-4	11.6	12.0	96.6	70 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFHxA	307-24-4	3.30	3.20	103	70 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFEESA	113507-82-7	5.64	5.68	99.3	70 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFPeS	2706-91-4	2.90	3.01	96.3	65 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
HFPO-DA	13252-13-6	13.0	12.8	102	70 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
NFDHA	151772-58-6	6.04	6.40	94.4	50 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
5:3 FTCA	914637-49-3	72.2	80.0	90.2	70 - 135		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFHpA	375-85-9	3.19	3.20	99.7	70 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
ADONA	919005-14-4	11.8	12.1	98.0	65 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFHxS	355-46-4	2.77	2.92	94.6	65 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
6:2 FTS	27619-97-2	12.7	12.2	104	65 - 155		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFOA	335-67-1	3.50	3.20	110	70 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFHpS	375-92-8	3.16	3.05	104	70 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
7:3 FTCA	812-70-4	67.8	80.0	84.8	50 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFNA	375-95-1	3.95	3.20	123	70 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFOSA	754-91-6	3.14	3.20	98.1	70 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFOS	1763-23-1	3.14	2.97	106	55 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
9Cl-PF3ONS	756426-58-1	11.1	12.0	93.0	70 - 155		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFDA	335-76-2	3.20	3.20	99.8	70 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
8:2 FTS	39108-34-4	14.4	12.3	118	60 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFNS	68259-12-1	3.04	3.08	98.6	65 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
MeFOSAA	2355-31-9	2.64	3.20	82.3	50 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
EtFOSAA	2991-50-6	3.00	3.20	93.8	70 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFUnA	2058-94-8	3.14	3.20	98.1	70 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFDS	335-77-3	2.51	3.09	81.3	60 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
11Cl-PF3OUdS	763051-92-9	9.74	12.1	80.6	55 - 160		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFDoA	307-55-1	3.42	3.20	107	70 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
MeFOSA	31506-32-8	2.85	3.20	89.1	60 - 150		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1

Sample ID: OPR **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Aqueous

Laboratory Data

Lab Sample: B25C183-BS2
Column: BEH C18

Analyte	CAS Number	Amt Found (ng/L)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTrDA	72629-94-8	3.29	3.20	103	65 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFDoS	79780-39-5	2.64	3.10	85.0	50 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
PFTeDA	376-06-7	3.12	3.20	97.5	60 - 140		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
EtFOSA	4151-50-2	3.03	3.20	94.7	65 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
MeFOSE	24448-09-7	28.7	32.0	89.8	70 - 145		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
EtFOSE	1691-99-2	31.2	32.0	97.6	70 - 135		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1

Labeled Standards	Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	84.9	10 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C5-PFPeA	IS	81.1	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C2-4:2 FTS	IS	81.8	40 - 200		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C3-PFBS	IS	86.0	40 - 135		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C5-PFHxA	IS	80.4	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C4-PFHpA	IS	85.8	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C3-HFPO-DA	IS	77.4	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C2-6:2 FTS	IS	81.2	40 - 200		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C8-PFOA	IS	87.9	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C3-PFHxS	IS	86.2	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C9-PFNA	IS	84.8	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C2-8:2 FTS	IS	68.9	40 - 300		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C6-PFDA	IS	69.1	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
d3-MeFOSAA	IS	76.3	40 - 170		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C8-PFOS	IS	82.4	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
d5-EtFOSAA	IS	70.2	25 - 135		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C7-PFUnA	IS	70.2	30 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C8-PFOSA	IS	63.3	40 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C2-PFDoA	IS	55.1	10 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
13C2-PFTeDA	IS	62.2	10 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
d7-MeFOSE	IS	42.7	10 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
d3-MeFOSA	IS	38.8	10 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
d9-EtFOSE	IS	36.3	10 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1
d5-EtFOSA	IS	28.7	10 - 130		B25C183	24-Mar-25	0.500 L	25-Mar-25 20:43	1

Sample ID: Field Blank — **EPA Method 1633**

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Water
Date Collected: 18-Mar-25 11:00

Laboratory Data

Lab Sample: 2503202-06
Date Received: 20-Mar-25 09:58
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	6.29		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFMPA	377-73-1	ND	3.15		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
3:3 FTCA	356-02-5	ND	7.86		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFPeA	2706-90-3	ND	3.15		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFMBA	863090-89-5	ND	3.15		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFBS	375-73-5	ND	1.40		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
4:2 FTS	757124-72-4	ND	5.90		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFHxA	307-24-4	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFEESA	113507-82-7	ND	2.80		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFPeS	2706-91-4	ND	1.47		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
HFPO-DA	13252-13-6	ND	6.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
NFDHA	151772-58-6	ND	3.15		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
5:3 FTCA	914637-49-3	ND	39.3		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFHpA	375-85-9	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
ADONA	919005-14-4	ND	6.21		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFHxS	355-46-4	ND	1.44		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
6:2 FTS	27619-97-2	ND	5.97		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFOA	335-67-1	ND	1.97		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFHpS	375-92-8	ND	1.49		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
7:3 FTCA	812-70-4	ND	39.3		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFNA	375-95-1	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFOSA	754-91-6	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFOS	1763-23-1	ND	1.46		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
9Cl-PF3ONS	756426-58-1	ND	6.13		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFDA	335-76-2	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
8:2 FTS	39108-34-4	ND	6.03		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFNS	68259-12-1	ND	1.51		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
MeFOSAA	2355-31-9	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
EtFOSAA	2991-50-6	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFUnA	2058-94-8	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFDS	335-77-3	ND	1.51		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
11Cl-PF3OUdS	763051-92-9	ND	5.90		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFDoA	307-55-1	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
MeFOSA	31506-32-8	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFTrDA	72629-94-8	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFDoS	79780-39-5	ND	1.52		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
PFTeDA	376-06-7	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1

Sample ID: Field Blank

EPA Method 1633

Client Data

Name: Hazen & Sawyer
Project: Santa Fe PRWRF / DB24.1212.00.2.1
Matrix: Water
Date Collected: 18-Mar-25 11:00

Laboratory Data

Lab Sample: 2503202-06
Date Received: 20-Mar-25 09:58
Column: BEH C18

Analyte	CAS Number	Conc. (ng/L)	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
EtFOSA	4151-50-2	ND	1.57		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
MeFOSE	24448-09-7	ND	15.7		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
EtFOSE	1691-99-2	ND	15.7		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	86.1	10 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C5-PFPeA	IS	84.4	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C2-4:2 FTS	IS	87.3	40 - 200		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C3-PFBS	IS	89.8	40 - 135		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C5-PFHxA	IS	78.0	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C4-PFHpA	IS	84.7	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C3-HFPO-DA	IS	79.8	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C2-6:2 FTS	IS	89.9	40 - 200		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C8-PFOA	IS	80.6	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C3-PFHxS	IS	91.6	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C9-PFNA	IS	85.2	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C2-8:2 FTS	IS	89.2	40 - 300		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C6-PFDA	IS	84.4	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
d3-MeFOSAA	IS	75.2	40 - 170		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C8-PFOS	IS	87.4	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
d5-EtFOSAA	IS	76.7	25 - 135		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C7-PFUnA	IS	88.2	30 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C8-PFOSA	IS	67.7	40 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C2-PFDoA	IS	74.2	10 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
13C2-PFTeDA	IS	73.0	10 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
d7-MeFOSE	IS	62.1	10 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
d3-MeFOSA	IS	43.3	10 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
d9-EtFOSE	IS	59.6	10 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	1
d5-EtFOSA	IS	40.4	10 - 130		B25C183	24-Mar-25	0.509 L	26-Mar-25 01:32	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 ½ 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.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 2503202 2.7°C

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	✓	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - El Dorado Hills

Matrix: A = Air, S = Soil/Solid, W = Water, DW = Drinking Water, P = Product, O = Oil, SD = Sediment, T = Tissue, WP = Wipe, WW = Wastewater, X = Other

Sample Type: C = Composite, G = Grab or Discrete, B = Blank, O = Other

Preservatives: 0 = none, 1 = $Na_2S_2O_3$, 2 = HCl, 3 = HNO_3, 4 = H_2SO_4, 5 = NaOH, 6 = Other

Sample Receipt Temp and Notes: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Hazen and Sawyer	Name:	Santa Fe PRWRF
Report To:	Amy Ewing	Number:	DB24.1212.0002.1
Email:	aewing@hazenandsawyer.com	P.O.#:	
Address:	100 Sun AVE NE #206	Address:	
	Albuquerque, NM 87109		
Phone:	505 217 7152	Global ID:	
Fax:		Sampled By:	S.R/D.V

	Sample ID	Sampling Date	Sampling Time (24 hr)	Matrix	Sample Type	Pres.	Cont. No.	Cont. Size	Initials	PFAS EPA 1633 Final								Test Instructions / Comments
1	SB-13-5	3-18-25	1125	S	G	0			SR/DV	X								Please send copy of results to Patrice Feltman @ PFeltman@geo-logic.com
2	SB-13-11	3-18-25	1235	S	G	0			SR/DV	X								
3	SB-14-5	3-18-25	1320	S	G	0			SR/DV	X								
4	SB-14-11	3-18-25	1400	S	G	0			SR/DV	X								
5	SB-15	3-18-25	1320	S	G	0			SR/DV	X								
6	Field Blank	3-18-25	1100	W	B	0			SR/DV	X								
7	Field Blank	3-18-25	1305	W	B	0			SR/DV	X								
8																		
9																		
10																		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	S. Ramirez	Samantha Ramirez	DBSA	3-19-25 1000
[1] Received By:	[signature]	Kelsea Bautista	Enthalpy	03/20/2025 0958
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

CoC/Label Reconciliation Report WO# 2503202

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2503202-01	A SB-13-5	☑		18-Mar-25 11:25	☑	HDPE Jar, 6 oz	Solid	
2503202-02	A SB-13-11	☐ (a)		18-Mar-25 12:35	☑	HDPE Jar, 6 oz	Solid	
2503202-03	A SB-14-5	☑		18-Mar-25 13:20	☑	HDPE Jar, 6 oz	Solid	
2503202-04	A SB-14-11	☑		18-Mar-25 14:00	☑	HDPE Jar, 6 oz	Solid	
2503202-05	A SB-15	☑		18-Mar-25 13:20	☑	HDPE Jar, 6 oz	Solid	
2503202-06	A Field Blank (c)	☑		18-Mar-25 11:00	☑	HDPE Bottle, 500 mL	Aqueous	
2503202-06	B Field Blank	☑		18-Mar-25 11:00	☐ (b)	HDPE Bottle, 500 mL	Aqueous	

Checkmarks indicate that information on the COC reconciled with the sample label.
Any discrepancies are noted in the following columns.

CONDITION	Yes	No	NA
Sample Container Intact?	✓		
Sample Container(s) Custody Seals Intact?			✓
Custody Seals On Cooler Intact?	✓		
Adequate Sample Volume?	✓		
Container Type Appropriate for Analysis(es)?	✓		

Comments: (a) sample label: SB-13-12
(b) sample label: 1305
(c) client listed sample container separate on COC. Confirmed 1 sample

Preservation Documented: Na2S2O3 Trizma NH4CH3CO2 (None) Other

Verifed by/Date: MWS 03/20/25
KBB 03/20/2025