

December 12, 2025

Midnight Sun - Glen/Mar JV  
3201 C Street, Suite 801  
Anchorage, AK 99503

Attn: Johnny Jeppesen

**Re: Soil Characterization**  
**Add/Alter B235 - PANG Base**  
**6801 NE Cornfoot Road**  
**Portland, Oregon**  
**CWE Project: GMCon-2-02-2**

## INTRODUCTION

Columbia West Engineering, Inc. (Columbia West) is pleased to provide this letter presenting the results of soil characterization activities for the PANG Building 235 (B235) additional/alteration project located at 6801 NE Cornfoot Road in Portland, Oregon (subject property). We understand that planned improvements include construction of a new 6,525-square-foot masonry addition to B235 and associated site improvements, including new utility excavations. The foundation for the building addition will be supported on approximately 30 micropiles. The subject property is shown relative to surrounding physical features on Figure 1. A site plan is presented on Figure 2.

Abbreviations and acronyms used herein are defined at the end of this document.

## BACKGROUND

The PANG facility is listed on the DEQ ECSI database (ECSI No. 1372) because of the presence of petroleum hydrocarbons (e.g., aviation fuel, diesel, etc.), solvents, metals, and PFAS in soil, groundwater, and/or sediment at various locations throughout the PANG facility. Numerous AOCs have been identified at the PANG facility. B235 is located in AOC-20, which is a former sanitary landfill where known activities associated with potential PFAS-containing substances were conducted, including potential landfilling and/or burning of materials that could contain PFAS.

In 2023, Brice/AECOM JV collected soil and groundwater samples associated with an ongoing remedial investigation of the PANG facility. PFAS were detected in soil samples collected from borings AOC20-01-SB (advanced within AOC-20) and AOC4-03-SB (advanced adjacent west of AOC-20). The detected concentrations and depths of PFAS in soil samples collected from these two borings were as follows:

- AOC20-01-SB
  - PFOA: 0.15 µg/kg and 0.095 µg/kg at 0.5 foot and 8 feet BGS respectively
  - PFOS: 0.47 µg/kg and 2.9 µg/kg at 0.5 foot and 8 feet BGS, respectively
  - PFNA: 0.083 µg/kg and 0.080 µg/kg at 0.5 foot and 8 feet BGS, respectively
  - PFSxS: 0.074 µg/kg and 0.40 µg/kg at 0.5 foot and 8 feet BGS, respectively

- AOC4-03-SB
  - PFOA: 0.051 µg/kg at 6 feet BGS
  - PFOS: 0.055 µg/kg at 2 feet BGS

Because of the presence of PFAS, soil generated during planned construction will require special handling, management, and disposal.

Columbia West prepared a CMMP for the planned development dated October 7, 2025 (Columbia West 2025). DEQ approved the CMMP in email correspondence dated October 21, 2025. Based on the DEQ-approved CMMP, soil generated during the B235 additional/alteration project with contaminant concentrations greater than EPA industrial RSLs or DEQ occupational RBCs cannot be reused and must be disposed of at an approved facility.

## PURPOSE AND SCOPE

The purpose of the soil characterization was to evaluate soil contaminant concentrations in future excavation areas and to obtain sufficient soil analytical data to support a disposal permit from a DEQ-approved facility. The specific scope of services for this investigation was as follows:

- Prepared and submitted a brief scope of services for the soil characterization activities to DEQ for review and approval.
- Coordinated and managed the field exploration program, which included locating public and private utilities, coordinating subject property access, and scheduling subcontractors and Columbia West field staff.
- Contacted the Oregon one-call utility notification system to mark the locations of public utilities in the subject property vicinity.
- Subcontracted APS Locates to clear boring locations for utilities in the areas to be explored at the subject property.
- Subcontracted Western States Soil Conservation, Inc. of Hubbard, Oregon, to advance 10 direct-push borings in the B235 work area, including 8 borings to depths of between 5 and 10 feet BGS and 2 borings to a depth of 30 feet BGS EACH.
- Collected continuous soil samples from each direct-push boring for field screening purposes. Field screened soil samples collected from each boring using visual indications, water sheen testing, and headspace vapor concentration measurements using a hand-held PID.
- Submitted 10 soil samples (1 from each boring) to Enthalpy Analytical of El Dorado Hills, California, for analysis of the standard list of 40 PFAS compounds by EPA Method 1633.
- Containerized IDW (i.e., soil, decontamination water, and solid waste) in a labeled, steel, 55-gallon drum and temporarily stored the drum on the subject property.
- Summarized the results of the soil characterization activities in this report.

## FIELD ACTIVITIES

Field activities were conducted on November 21, 2025, and included advancing 10 direct-push borings (DP-1 through DP-10) at the locations shown on Figure 2. Borings DP-1, DP-2, DP-3, and DP-8 were advanced to a depth of 10 feet BGS within planned excavation areas for storm sewer lines and a stormwater infiltration trench; borings DP-4 and DP-5 were advanced to a depth of 30 feet BGS within the footprint of the planned building expansion, where micropiles will be

advanced; borings DP-6 and DP-10 were advanced to a depth of 5 feet BGS within planned excavation areas for natural gas lines; boring DP-7 was advanced to a depth of 10 feet BGS within a planned excavation area for a sanitary sewer line; and boring DP-9 was advanced to a depth of 5 feet BGS within a planned excavation area for sanitary sewer and water lines.

The exploration locations are shown on Figure 2. A description of the field exploration program and exploration logs are presented in Appendix A.

### **SUBSURFACE CONDITIONS**

Subsurface conditions encountered in the borings include varying proportions of silt and sand to the maximum depths explored. In boring DP-5, layers of gravelly soil were observed at approximately 9 feet BGS and 20 feet BGS, and in boring DP-7, a gravelly layer was observed at approximately 5 feet BGS. Shallow perched groundwater was encountered at depths between approximately 5 and 10 feet BGS in each of the 10 borings. Field screening evidence of petroleum contamination, unusual odors, debris, or other indications of historical landfill activities was not encountered in any of the borings advanced during this investigation.

### **SOIL SAMPLING**

A Columbia West representative observed the direct-push borings and collected continuous discrete soil samples for field screening and potential laboratory analysis. Soil sampling, collection, and screening were performed using new powderless nitrile gloves, PFAS-free hand tools, and laboratory-provided Teflon-free sample jars and PFAS-free decontamination water.

Continuous soil samples were collected from each boring and field screened for evidence of petroleum impacts or debris. One soil sample from each direct-push boring was submitted for laboratory analysis.

Soil samples were transferred to a cooler and put on water ice and submitted under chain-of-custody procedures to Enthalpy Analytical of El Dorado Hills, California, for analysis of the standard list of 40 PFAS compounds by EPA Method 1633.

### **REGULATORY SCREENING LEVELS**

The EPA has established SLs for various contaminants, exposure pathways, and receptors to evaluate risk to human health, including for various PFAS compounds. It is our understanding that earthwork related to subject property redevelopment will generally consist of surface grading, micropile installation, and utility excavation and that future B235 use will remain industrial. Soil and groundwater will be generated during construction. DEQ has not established RBC for PFAS. However, the EPA has established SLs for PFAS in soil, including composite worker (industrial) RSLs and residential SLs for protection of groundwater. In addition, the DoW (formerly the Department of Defense) has established PFAS soil SLs for use in preliminary assessments and site inspections (Department of Defense 2025). Landfill disposal limits have not been established for PFAS-containing soil.

Soil sample analytical results are compared to the EPA industrial (composite worker) SLs, EPA residential SLs for protection of groundwater, and DoW SLs for residential soil.

## LABORATORY ANALYTICAL RESULTS

Soil samples DP-1(2-3), DP-2(5-6), DP-3(3-4), DP-4(29-30), DP-5(10-11), DP-6(3-4), DP-7(5-6), DP-8(5-6), DP-9(2-3), and DP-10(3-4) were analyzed for the standard list of 40 PFAS compounds by EPA Method 1633. Up to 14 PFAS compounds were detected in 9 of the 10 soil samples analyzed [all but soil sample DP-4(29-30)]. PFAS including 6:2 FTS, PFBS, PFBA, PFDS, PFHpA, PFNA, PFOSA, PFPeS, and PFPeA were detected in one or more of the samples at concentrations less than the established EPA and DoW screening levels.

PFDA was detected in soil sample DP-3(3-4) at a concentration of 0.500 µg/kg, greater than the EPA industrial SL, EPA residential soil to groundwater SL, and DoW residential soil SL of 0.00016 µg/kg, 0.0000081 µg/kg, and 0.06 µg/kg, respectively.

PFHxS was detected in each of the soil samples analyzed, except for soil samples DP-1(2-3) and DP-4(29-30), at concentrations ranging from 0.0255 to 1.41 µg/kg. The detected concentrations of PFHxS were greater than the EPA residential soil to groundwater SL, but less than the EPA industrial SL and DoW residential soil SL.

PFHxA was detected in soil samples DP-3(3-4), DP-7(5-6), DP-9(2-3), and DP-10(3-4) at concentrations of 0.174 µg/kg, 0.0510 µg/kg, 0.344 µg/kg, and 0.624 µg/kg, respectively. The detected concentrations of PFHxA were greater than the EPA residential soil to groundwater SL, but less than the EPA industrial SL and residential soil DoW SL, except for soil samples DP-3(3-4) and DP-7(5-6).

PFOS was detected in each of the samples analyzed, except for soil samples DP-1(2-3), DP-2(5-6), DP-4(29-30), and DP-6(3-4). The detected concentrations ranged from 0.303 to 2.32 µg/kg. The detected concentrations of PFOS were greater than the EPA residential soil to groundwater SL, but less than the EPA industrial SL. The DoW has not established a residential soil SL for PFOS.

PFOA was detected in each of the samples analyzed, except for soil samples DP-1(2-3), DP-2(5-6), DP-4(29-30), and DP-6(3-4). The detected concentrations ranged from 0.0454 to 0.619 µg/kg. The detected concentrations of PFOA were greater than the EPA residential soil to groundwater SL. In addition, the detected concentrations of PFOA were greater than the EPA industrial SL and DOW residential soil SL in soil samples DP-3(3-4) and DP-10(3-4).

The laboratory analytical results are summarized in Table 1. The laboratory analytical report is presented in Appendix B.

## CONCLUSIONS AND RECOMMENDATIONS

Columbia West conducted soil characterization activities at the PANG B235 addition/alteration site located at 6801 NE Cornfoot Road in Portland, Oregon. The results of the soil characterization indicate the following:

- Field screening evidence of petroleum contamination, unusual odors, debris, or other indications of historical landfill activities was not encountered in any of the direct-push borings advanced during this investigation.
- Up to 14 PFAS compounds were detected in 9 of the 10 soil samples analyzed during this investigation (all except soil sample DP-4(29-30).
- PFAS were detected at concentrations greater than one or more SLs in 8 of the 10 soil samples analyzed.
- PFAS were detected at concentrations greater than EPA industrial SLs in 2 of the 10 soil samples analyzed.

Because PFAS were detected in one or more soil samples at concentrations greater than EPA industrial SLs, soil generated during future earthwork must be disposed of offsite at a DEQ-approved facility. Currently, RCRA disposal limits for PFAS-impacted soil have not been established, and acceptance criteria for PFAS-impacted soil may vary by disposal facility.

The analytical data generated during this investigation can be used by the contractor to obtain a disposal permit from the selected facility. It is possible that the soil receiving facility may require additional soil sample data. Future earthwork at the subject property must be conducted in accordance with the DEQ-approved CMMP dated October 7, 2025 (Columbia West 2025). DEQ should be notified prior to the initiation of project-related earthwork.

## LIMITATIONS

This report has been prepared for use by Midnight Sun - Glen/Mar JV. This report is not intended for use by others, and the information contained herein is not applicable to other sites. Reliance by other parties must be approved by Columbia West in accordance with our standard contractual process for third-party reliance. Our interpretations of subsurface conditions are based on data from select samples collected during this investigation. The results of the analyses only indicate the presence or absence of those chemical constituents analyzed in those discrete sample locations. It is always possible that contamination could exist between the widely spaced exploration locations. Analytical data from the laboratory samples should only be considered as indicators of subject property conditions and not a guarantee of the absence of subsurface impact in areas not sampled.

The conclusions presented in this report are based on our observations made during the field investigation and chemical analytical data. The findings of this investigation should be considered as a professional opinion based on our evaluation of select and limited data.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted environmental science practices in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood. Additional limitations and important information are presented in Appendix C.



We appreciate the opportunity to be of service to you. Please do not hesitate to contact us if you have questions or require additional information.

Sincerely,



Caroline B. Siegel  
Environmental Project Manager



Colby R. Hunt, CHMM  
Environmental Principal

cc: Dan Hafley, Oregon Department of Environmental Quality

CBS:CRH:kat

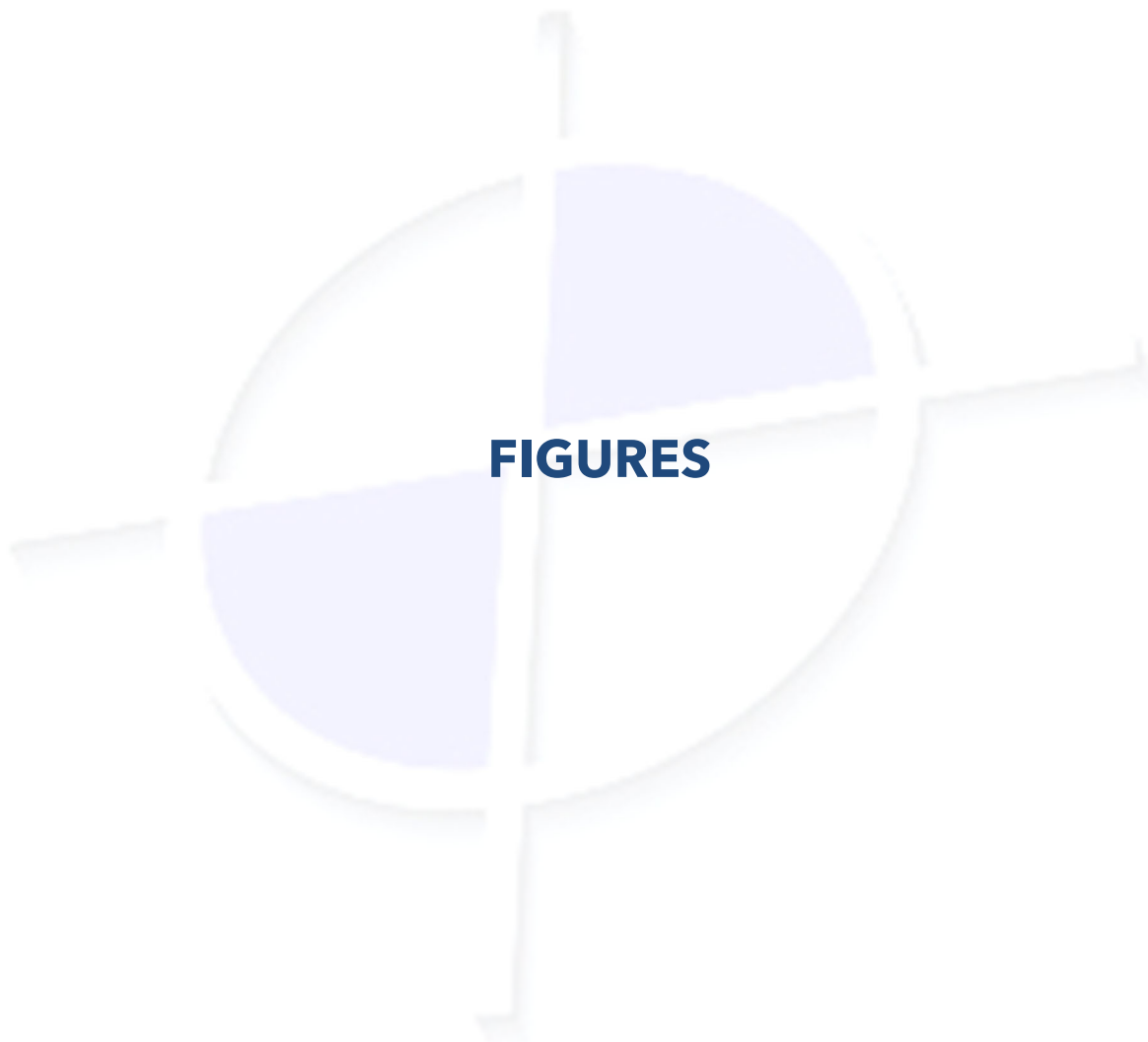
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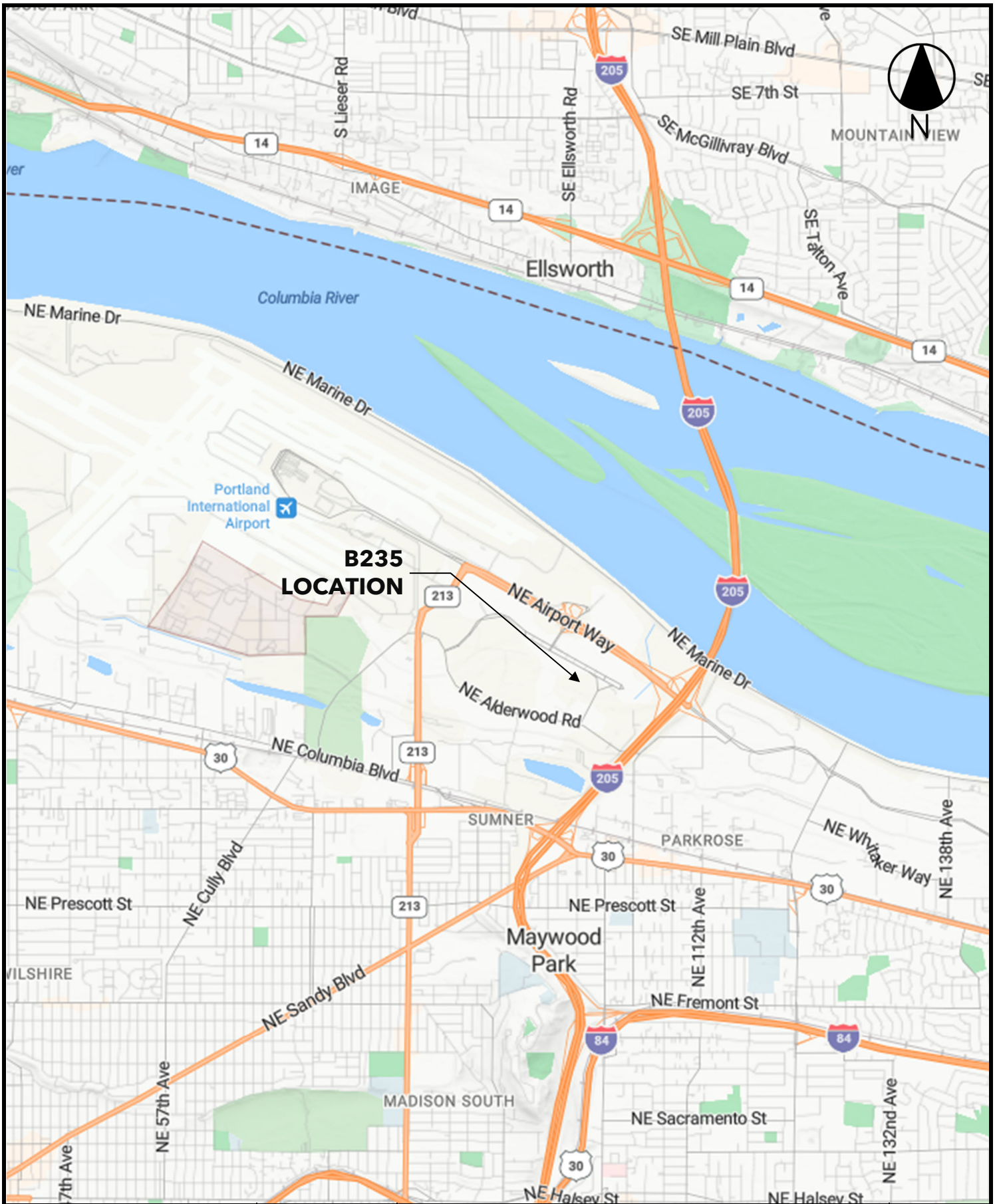
## REFERENCES

Columbia West 2025. *Contaminated Media Management Plan; Add/Alter B235 - PANG Base; 6801 NE Cornfoot Road; Portland, Oregon*, dated October 7, 2025, CWE Project: GMCon-2-02-1.

Department of Defense 2025. *Memorandum, Investigating Per- and Polyfluoroalkyl Substances within the Department of Defense Cleanup Program*, dated January 21, 2025.

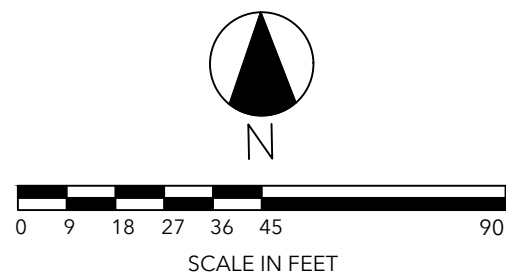
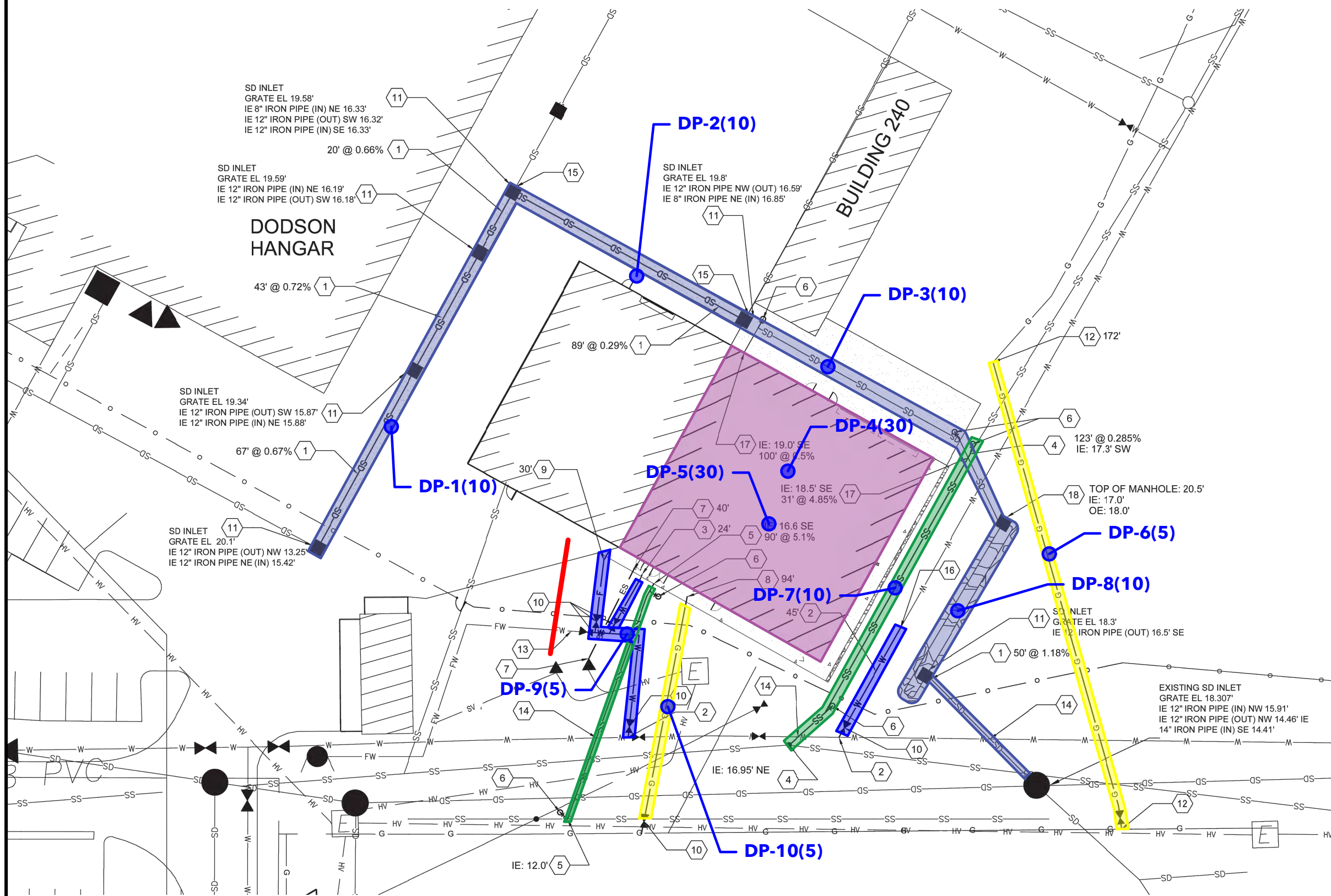


**FIGURES**



**LEGEND**

- SURFACE GRADING  
 EXCAVATION - 2 FEET BGS  
 (375 CUBIC YARDS OF SOIL)
- TEMPORARY POWER  
 TRENCH LINE - 5 FEET BGS  
 (10 CUBIC YARDS OF SOIL)
- STORM SEWER LINES AND  
 INFILTRATION TRENCH -  
 6 FEET BGS  
 (234 CUBIC YARDS OF SOIL)
- WATER LINES - 3 FEET BGS  
 (80 CUBIC YARDS OF SOIL)
- SANITARY SEWER LINES -  
 6 FEET BGS  
 (111 CUBIC YARDS OF SOIL)
- GAS LINES - 4 FEET BGS  
 (137 CUBIC YARDS OF SOIL)
- DP-1(10)  
 DIRECT-PUSH BORING  
 (BORING DEPTH IN FEET BGS)



NOTES:  
 1. SITE PLAN SOURCED FROM CH2M HILL - JDR JV PLAN SET PROVIDED BY MIDNIGHT SUN - GLEN/MAR JV.  
 2. EXPLORATION LOCATIONS ARE APPROXIMATE AND NOT SURVEYED.  
 3. REFER TO REPORT TEXT FOR EXPLORATION DESCRIPTIONS.



**TABLES**

**TABLE 1**  
**Summary of Soil Sample Chemical Analytical Results**  
**PFAS**  
**Add/Alter B235 - PANG Base**  
**6801 NE Cornfoot Road**  
**Portland, Oregon**

Sample ID (depth in feet BGS)	Sample Date	PFAS <sup>1</sup> EPA Method 1633 (µg/kg)														
		Fluorotelomer sulphonic acid 6:2 (6:2 FTS)	Perfluorobutanesulfonic acid (PFBS)	Perfluorobutanoic acid (PFBA)	Perfluorodecanesulfonic acid (PFDS)	Perfluorodecanoic acid (PFDA)	Perfluoroheptanoic acid (PFHpA)	Perfluorohexanesulfonic acid (PFHxS)	Perfluorohexanoic acid (PFHxA)	Perfluorononanoic acid (PFNA)	Perfluorooctanesulfonamide (PFOSA)	Perfluorooctanesulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	Perfluoropentanesulfonic acid (PFPeS)	Perfluoropentanoic acid (PFPeA)	
DP-1(2-3)	11/21/25	<b>0.0464</b> J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	<b>0.0335</b> J	
DP-2(5-6)	11/21/25	ND	ND	ND	ND	ND	ND	<b>0.0255</b> J	ND	ND	ND	ND	ND	ND	ND	
DP-3(3-4)	11/21/25	ND	<b>0.0266</b> J	<b>0.0692</b> J	ND	<b>0.500</b>	<b>0.136</b>	<b>0.388</b>	<b>0.174</b>	<b>0.291</b>	ND	<b>0.705</b>	<b>0.619</b>	<b>0.0198</b> J	<b>0.154</b>	
DP-4(29-30)	11/21/25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	
DP-5(10-11)	11/21/25	ND	ND	<b>0.0266</b> J	ND	ND	ND	<b>0.0195</b> J	<b>0.156</b>	ND	ND	ND	<b>0.978</b>	<b>0.0454</b> J	<b>0.0312</b> J	
DP-6(3-4)	11/21/25	ND	ND	ND	ND	ND	ND	<b>0.0975</b> J	ND	ND	ND	ND	ND	ND	ND	
DP-7(5-6)	11/21/25	ND	<b>0.0177</b> J	<b>0.0223</b> J	<b>0.0248</b> J	ND	ND	<b>0.0179</b> J	<b>0.405</b>	<b>0.0510</b> J	ND	<b>0.0322</b> J	<b>2.08</b>	<b>0.0481</b> J	<b>0.0158</b> J	<b>0.0498</b> J
DP-8(5-6)	11/21/25	ND	<b>0.0495</b> J	<b>0.0282</b> J	ND	ND	ND	<b>0.0209</b> J	<b>0.341</b>	ND	ND	ND	<b>0.303</b>	<b>0.0624</b> J	<b>0.0333</b> J	<b>0.0347</b> J
DP-9(2-3)	11/21/25	ND	<b>0.0422</b> J	<b>0.0245</b> J	ND	ND	ND	ND	<b>1.21</b>	<b>0.344</b>	ND	ND	<b>0.873</b>	<b>0.0675</b> J	<b>0.0959</b> J	<b>0.0400</b> J
DP-10(3-4)	11/21/25	ND	<b>0.0754</b> J	<b>0.0440</b> J	ND	ND	ND	<b>0.0163</b> J	<b>1.41</b>	<b>0.624</b>	ND	ND	<b>2.32</b>	<b>0.0791</b> J	<b>0.101</b> J	<b>0.0524</b> J
<b>EPA Screening Levels<sup>2</sup></b>																
Composite Worker (THQ = 0.1)		NE	25,000	120,000	NE	0.00016	NE	1,600	41,000	250	NE	8.2	0.078	NE	NE	
Residential Soil to Groundwater <sup>2</sup>		NE	0.30	0.65	NE	0.0000081	NE	0.017	0.24	0.025	NE	0.0015	0.00004	NE	NE	
<b>DoW Screening Levels<sup>3</sup></b>																
Residential Soil		NE	1,900	7,800	NE	0.06	NE	130	3,200	19	0.63	NE	0.070	NE	NE	

Notes:

1. Only PFAS detected during this investigation are listed. For a complete listing of PFAS, refer to the laboratory report in Appendix B.

2. EPA Regional Screening Levels dated November 2024

3. Department of War Screening Levels dated January 2025

J: The identification of the analyte is acceptable; the reported value is an estimate.

ND: Not detected. Reporting and detection limits are shown in the laboratory report included in Appendix B.

NE: not established

Shading indicates analyte detection at a concentration greater than one or more applicable screening levels.



# APPENDIX A

## APPENDIX A FIELD PROCEDURES

### GENERAL

On November 21, 2025, 10 direct-push borings (DP-1 through DP-10) were advanced to depths of up to 30 feet BGS using a Geoprobe® 7822DT rig owned and operated by Western States Soil Conservation, Inc. of Hubbard, Oregon. The explorations were conducted under the supervision of Columbia West personnel. The exploration logs are presented in this appendix.

The approximate exploration locations are shown on Figure 2. The locations were determined in the field by pacing or measuring from existing site features. This information should be considered accurate only to the degree implied by the methods used.

### SOIL CLASSIFICATION

The soil samples were classified in the field in accordance with the "Exploration Legend" and "Soil Classification System," which are presented in this appendix. The exploration logs indicate the depths at which the soil characteristics change, although the change could be gradual. If the change occurred between sample locations, the depth was interpreted. Classifications are shown on the exploration logs.

### SOIL SAMPLING

Discrete soil samples were collected from the direct-push borings using PFAS-free, decontaminated hand-held equipment (e.g., a stainless steel spoon or trowel) and/or powderless nitrile disposable gloves at various depth intervals. The discrete soil samples were placed in laboratory-supplied Teflon-free containers and immediately placed in a cooler and put on water ice and kept cool until delivered to the laboratory. Standard chain-of-custody procedures were observed when transporting the samples to the laboratory.

### SOIL SAMPLE FIELD SCREENING METHODS

Select soil samples collected from the direct-push borings were field screened for evidence of potential contamination using visual examination, water sheen testing, and head space vapor screening using a hand-held PID. Visual observation consisted of observing the soil sample for staining or discoloration consistent with potential petroleum contamination. Water sheen testing consisted of placing a small soil sample in water and evaluating the water surface for evidence of a petroleum-like sheen. Petroleum-like sheens are classified as follows:

No Sheen	No visible sheen on the water surface.
Slight Sheen	Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates quickly. Natural organic matter may produce a slight sheen on the water surface.
Moderate Sheen	Between a light and heavy sheen; may have some color and/or iridescence; the spread is irregular to flowing, may be rapid; few portions of the water surface remain without sheen.

Heavy Sheen                      Strong color and iridescence; spread is rapid; entire water surface is likely covered with sheen.

Headspace vapor screening includes placing a small soil sample in a plastic bag and trapping air in the bag. The soil sample is broken up inside the bag, and the bag shaken to expose the soil to the air in the plastic bag. The tip of a PID is inserted into the bag and the PID measures the concentrations of VOCs in the bag.

### **DECONTAMINATION**

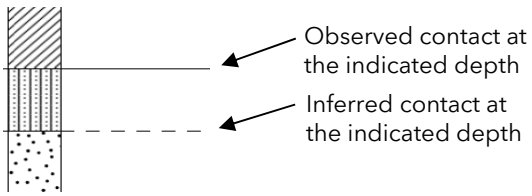
Soil sampling equipment used to collect the discrete soil samples and to homogenize the discrete soil samples was decontaminated prior to use with PFAS-free decontamination water and between each sample. Reusable sample processing equipment that came into contact with sample media, including stainless steel implements, was decontaminated using the following procedures:

1. Rinsed with PFAS-free water and scrubbed with a brush to remove large particles of soil
2. Washed with a phosphate-free detergent solution (e.g., Alconox™)
3. Rinsed with PFAS-free water

### **INVESTIGATION-DERIVED WASTE**

IDW generated during this investigation was placed in a labeled, steel 55-gallon drum and temporarily left on the subject property.

## EXPLORATION LEGEND

SAMPLER TYPE	DESCRIPTION	
SPT	Sample collected from the indicated depth in general accordance with ASTM D1586, <i>Standard Test Method Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils</i> , using an SPT sampler and 140-pound hammer	
SH	Sample collected from the indicated depth in general accordance with ASTM D1587, <i>Standard Practice for Thin-Walled Tube Sampling of Fine-Grained Soils for Geotechnical Purposes</i> , using a thin-walled Shelby tube, or in general accordance with ASTM D6519, <i>Standard Practice for Sampling of Soil Using the Hydraulically Operated Stationary Piston Sampler</i> , using a thin-walled tube	
D&M	Sample collected from the indicated depth in general accordance with ASTM D3550, <i>Standard Practice for Thick Wall, Ring-Lined, Split Barrel, Drive Sampling of Soils</i> , using a Dames & Moore sampler and 140-pound hammer or pushed	
CSS	Sample collected from the indicated depth in general accordance with ASTM D3550, <i>Standard Practice for Thick Wall, Ring-Lined, Split Barrel, Drive Sampling of Soils</i> , using a 3-inch-outside diameter California split-spoon sampler and 140-pound hammer	
DP	Sample collected from the indicated depth in general accordance with ASTM D6282, <i>Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations</i> , using a direct-push soil sampler	
GRAB	Grab sample collected from the indicated depth	
CORE	Pavement or rock core interval at the indicated depth	

### GEOTECHNICAL ABBREVIATIONS

ATT	Atterberg limits	PP	Pocket penetrometer
CBR	California bearing ratio	P200	Percent passing No. 200 sieve
CON	Consolidation test	RES	Resilient modulus
DD	Dry density	SIEV	Sieve analysis
DS	Direct shear	TS	Torvane shear
HYD	Hydrometer	tsf	Tons per square foot
MC	Moisture content	UC	Unconfined compressive strength
MD	Moisture-density relationship	UU	Unconsolidated undrained triaxial test
NP	Non-plastic	VS	Vane shear
OC	Organic content	WD	Wet density

### ENVIRONMENTAL ABBREVIATIONS

CA	Sample submitted for chemical analysis	ND	Not detected
PID	Photoionization detector headspace analysis	NS	No sheen
ppm	Parts per million	SS	Slight sheen
		MS	Moderate sheen
		HS	Heavy sheen

# SOIL CLASSIFICATION SYSTEM

## PARTICLE-SIZE CLASSIFICATION

COMPONENT	ASTM / USCS		AASHTO	
	Size Range	Sieve Size Range	Size Range	Sieve Size Range
Boulders	Greater than 300 mm	Greater than 12 inches	--	--
Cobbles	75 mm to 300 mm	3 inches to 12 inches	Greater than 75 mm	Greater than 3 inches
Gravel	75 mm to 4.75 mm	3 inches to No. 4 sieve	75 mm to 2.00 mm	3 inches to No. 10 sieve
Coarse	75 mm to 19.0 mm	3 inches to 3/4-inch sieve	--	--
Fine	19.0 mm to 4.75 mm	3/4-inch to No. 4 sieve	--	--
Sand	4.75 mm to 0.075 mm	No. 4 to No. 200 sieve	2.00 mm to 0.075 mm	No. 10 to No. 200 sieve
Coarse	4.75 mm to 2.00 mm	No. 4 to No. 10 sieve	2.00 mm to 0.425 mm	No. 10 to No. 40 sieve
Medium	2.00 mm to 0.425 mm	No. 10 to No. 40 sieve	--	--
Fine	0.425 mm to 0.075 mm	No. 40 to No. 200 sieve	0.425 mm to 0.075 mm	No. 40 to No. 200 sieve
Fines (Silt and Clay)	Less than 0.075 mm	Passing No. 200 sieve	Less than 0.075 mm	Passing No. 200 sieve

## CONSISTENCY FOR FINE-GRAINED SOIL

CONSISTENCY	SPT N-VALUE (blows per foot)	D&M N-VALUE (blows per foot)	POCKET PENETROMETER (unconfined compressive strength [tsf])
Very soft	0 to 2	0 to 3	Less than 0.25
Soft	2 to 4	3 to 6	0.25 to 0.5
Medium stiff	4 to 8	6 to 12	0.5 to 1.0
Stiff	8 to 15	12 to 25	1.0 to 2.0
Very stiff	15 to 30	25 to 65	2.0 to 4.0
Hard	Greater than 30	Greater than 30	Greater than 4.0

## RELATIVE DENSITY FOR COARSE-GRAINED SOIL

RELATIVE DENSITY	SPT N-VALUE (blows per foot)	D&M N-VALUE (blows per foot)
Very loose	0 to 4	0 to 11
Loose	4 to 10	11 to 26
Medium dense	10 to 30	26 to 74
Dense	30 to 50	74 to 120
Very dense	Greater than 50	Greater than 120


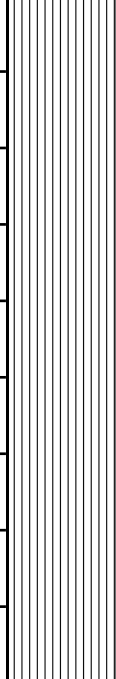
## MOISTURE DESIGNATIONS

TERM	FIELD IDENTIFICATION
Dry	Very low moisture, dry to touch
Moist	Damp, color appears darkened, without visible moisture, cohesive soil will clump, sand will bulk
Wet	Visible free water, usually saturated

## ADDITIONAL CONSTITUENTS

PERCENT	SILT AND CLAY IN		PERCENT	SAND AND GRAVEL IN		PERCENT	SECONDARY MATERIAL
	Fine-Grained Soil	Coarse-Grained Soil		Fine-Grained Soil	Coarse-Grained Soil		Organics and Man-Made Debris
< 5	trace	trace	< 5	trace	trace	< 4	trace
5 - 12	minor	with	5 - 15	minor	minor	4 - 12	some
> 12	some	silty/clayey	15 - 30	with	with		
			> 30	sandy/gravelly	with		

**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 9:25 AM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 9:40 AM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
			Asphalt Concrete (3 inches). 0.3 Aggregate Base (9 inches). 1.0			PID = 0.0 ppm NS
		ML	Gray SILT with sand, moist.  Wet at 5 feet. Moist at 5.5 feet.	DP	38	DP-1(2-3) - CA PID = 0.0 ppm NS
5				DP	60	DP-1(6-7) PID = 0.0 ppm NS
10						PID = 0.0 ppm NS


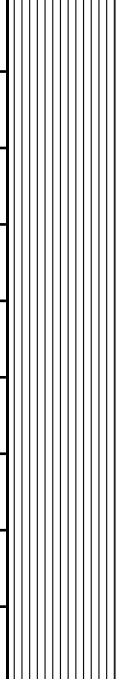
Exploration completed at 10 feet.

**Water Levels**

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BoreDM Template: Environmental Boring Template

**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 9:46 AM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 9:57 AM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
			Asphalt Concrete (3 inches). 0.3 Aggregate Base (9 inches). 1.0			PID = 0.0 ppm NS
		ML	Gray SILT with sand, moist.	DP	48	DP-2(2-3) PID = 0.0 ppm NS  PID = 0.0 ppm NS
5				DP	60	DP-2(5-6) - CA PID = 0.0 ppm NA
10						PID = 0.0 ppm NS

Exploration completed at 10 feet.

**Water Levels**

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BoreDM Template: Environmental Boring Template

**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 10:35 AM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 10:50 AM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
0		SM	Brown with orange mottled silty SAND, moist (18 inches of topsoil, 2-inch-thick root zone).	DP	50	PID = 0.0 ppm NS
5						DP-3(3-4) - CA PID = 0.0 ppm NS
7.0		SP	Brown SAND, wet.	DP	50	PID = 0.0 ppm NS
10.0						DP-3(7-8) PID = 0.0 ppm NS

Exploration completed at 10 feet.

**Water Levels**

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BoreDM Template: Environmental Boring Template



**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 10:55 AM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 11:48 AM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

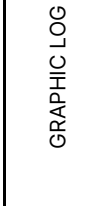
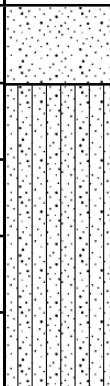
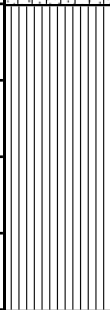
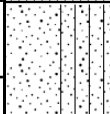
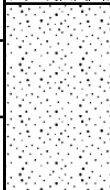
DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
15		SP	(continued from previous page)			PID = 0.0 ppm NS
				DP	60	DP-4(15-16) PID = 0.0 ppm NS PID = 0.0 ppm NS
20				DP	60	PID = 0.0 ppm NS PID = 0.0 ppm NS
25						PID = 0.0 ppm NS

**Water Levels**



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**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 11:50 AM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 12:35 PM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

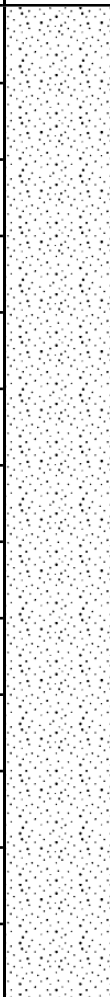
DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
		SP	Brown SAND with gravel, moist (12 inches of topsoil, 2-inch-thick root zone). 1.0			
		SM	Brown silty SAND, moist. 5.0	DP	30	DP-5(1-2) PID = 0.0 ppm NS
5		ML	Gray with orange mottled SILT, moist.  Brown with gray mottles at 7 feet. 9.0	DP	60	PID = 0.0 ppm NS  PID = 0.0 ppm NS
10		SP-SM	Brown SAND with silt and gravel, moist. 10.5			PID = 0.0 ppm NS
		SP	Gray SAND, wet.	DP	60	DP-5(10-11) - CA PID = 0.0 ppm NS  PID = 0.0 ppm NS

**Water Levels**

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BoreDM Template: Environmental Boring Template

**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 11:50 AM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 12:35 PM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
		SP	(continued from previous page)			
15			Dark brown at 15 feet.			PID = 0.0 ppm NS
				DP	60	PID = 0.0 ppm NS
20			Dark brown, with gravel at 20 feet.			DP-5(19-20) PID = 0.0 ppm NS PID = 0.0 ppm NS
				DP	48	DP-5(23-24) PID = 0.0 ppm NA
25			Without gravel at 23 feet.			

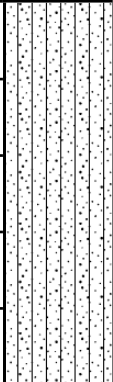
**Water Levels**

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BoreDM Template: Environmental Boring Template



**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 12:45 PM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 12:50 PM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

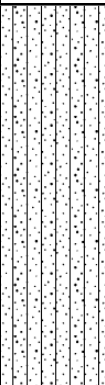
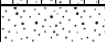
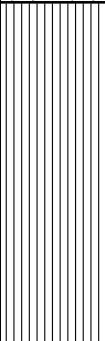
DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
5		SM	Dark brown silty SAND, moist (18 inches of topsoil, 2-inch-thick root zone).  Light brown at 3 feet.	DP	53	PID = 0.0 ppm NS  DP-6(3-4) - CA PID = 0.0 ppm NS

5.0 Exploration completed at 5 feet.

**Water Levels**



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**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 12:52 PM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 12:59 PM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
0		SM	Brown silty SAND, moist (18 inches of topsoil, 2-inch-thick root zone).	DP	48	PID = 0.0 ppm NS DP-7(1-2) PID = 0.0 ppm NS
5.0		SP	Brown SAND with gravel, wet.			PID = 0.0 ppm NS
5.5		ML	Brown SILT with sand, wet. Gray with orange mottles, moist at 6 feet.	DP	48	DP-7(5-6) - CA PID = 0.0 ppm NS  PID = 0.0 ppm NS
10.0						PID = 0.0 ppm NS

Exploration completed at 10 feet.

**Water Levels**

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BoreDM Template: Environmental Boring Template

**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 1:00 PM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 1:07 PM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
0		SM	Brown silty SAND, moist (18 inches of topsoil, 2-inch-thick root zone).	DP	36	PID = 0.0 ppm NS  DP-8(2-3) PID = 0.0 ppm NA
5						DP-8(5-6) - CA PID = 0.0 ppm NS
7.0		ML	Gray with orange mottled SILT with sand, moist.	DP	60	PID = 0.0 ppm NS
10.0						PID = 0.0 ppm NS

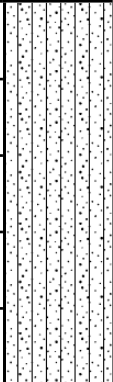
Exploration completed at 10 feet.

**Water Levels**

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BoreDM Template: Environmental Boring Template

**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 1:08 PM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 1:12 PM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
5		SM	Brown silty SAND, moist (18 inches of topsoil, 2-inch-thick root zone).	DP	42	PID = 0.0 ppm NS  DP-9(2-3) - CA PID = 0.0 ppm NS

Exploration completed at 5 feet.

**Water Levels**

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**PROJECT NAME** Add/Alter B235 PANG Base **CLIENT** Midnight Sun - Glen/Mar JV  
**PROJECT NUMBER** GMCon-2-02-2 **PROJECT CITY, STATE** Portland, Oregon  
**DRILLING CONTRACTOR** Western States Soil Conservation, Inc. **DATE STARTED** 11/21/2025  
**DRILLING METHOD** Direct Push **TIME STARTED** 1:13 PM  
**EQUIPMENT** Geoprobe 7822DT **DATE COMPLETED** 11/21/2025  
**BORING DIAMETER** 2.25 inches **TIME COMPLETED** 1:18 PM  
**HAMMER EFFICIENCY** - **LOGGED BY** C. Siegel

DEPTH (ft)	GRAPHIC LOG	USCS	MATERIAL DESCRIPTION AND NOTES	SAMPLE TYPE	RECOVERY (in)	REMARKS
5		SM	Brown silty SAND, moist (18 inches of topsoil, 2-inch-thick root zone).	DP	42	PID = 0.0 ppm NS  DP-10(3-4) - CA PID = 0.0 ppm NS

Exploration completed at 5 feet.

**Water Levels**

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BoreDM Template: Environmental Boring Template



**APPENDIX B**

## APPENDIX B CHEMICAL ANALYTICAL PROGRAM

### GENERAL

Soil samples were transferred to the analytical laboratory under standard chain-of-custody procedures. The laboratory stored the samples in cold storage pending extraction and analysis. The laboratory report, including analytical results, descriptions of the analytical methods, and laboratory QC procedures is presented in this appendix.

### ANALYTICAL DATA REVIEW

The analytical laboratory used for this investigation maintains internal QA/QC programs consisting of the following:

**MS/MSD Recoveries:** An MS sample is a project sample that has been split into two samples to create an MS sample. The MS sample is further split to create an MSD sample. A known concentration of a specific analyte is added to the MS and MSD samples. The analytical results for both samples are then compared for RPD and percent recovery to demonstrate acceptable method performance.

**BS/BSD Recoveries:** BS and BSD samples are obtained and analyzed in the same procedure as the MS/MSD samples; however, the laboratory blank sample is used to obtain the BS/BSD samples. The percent recovery and RPD of the known concentration of analyte of interest added to the BS/BSD sample is calculated after chemical analyses to demonstrate acceptable method performance.

**Surrogate Recoveries:** Surrogates are organic compounds that are similar in nature to the analytes of concern but are not normally found in nature. The surrogates are added to the QC and field samples prior to analysis. The percent recovery of the surrogate is calculated to demonstrate acceptable method performance.

**Blanks:** Blanks are laboratory-prepared water samples that are free of contaminants. The blanks are carried through the analysis procedure along with the field samples to document that contaminants were not introduced to the samples during sample handling and analysis.

**Duplicates:** Duplicates are obtained by splitting a sample into two parts. The two separate parts are carried through the analyses. The analytical results are then compared by calculating the RPD between the samples.

### SUMMARY OF ANALYTICAL DATA

Columbia West reviewed the attached analytical data report for data quality exceptions and deviations from acceptable method performance criteria. Due to unanticipated shipping delays, soil samples arrived at the laboratory at a temperature of 11 degrees Celsius instead of the required 6 degrees Celsius. Based on discussions with laboratory personnel, PFAS compounds are generally stable and are unlikely to be affected by the slightly warmer temperature. Based on the data qualifications noted in the analytical report, it is our opinion that the data are adequate for their intended use.



December 04, 2025

**Enthalpy Analytical - El Dorado Hills**  
**Work Order No. 2511227**

Mr. Colby Hunt  
Columbia West Engineering, Inc.  
8880 SW Nimbus Avenue, Suite A  
Beaverton, OR 97008

Dear Mr. Hunt,

Enclosed are the results for the sample set received at Enthalpy Analytical - EDH on December 01, 2025 under your Project Name 'GMCon-2-02-2'.

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 [byron.clack@enthalpy.com](mailto:byron.clack@enthalpy.com).

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

Sincerely,

A handwritten signature in black ink that reads 'Byron Clack'.

Byron Clack  
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.*



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Client: Columbia West Engineering, Inc.

Project Number: GMCon-2-02-2

Report To: Colby Hunt

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## CASE NARRATIVE

**Enthalpy Analytical - EDH Work Order No. 2511227**

**Case Narrative**

### **Sample Condition on Receipt:**

Ten 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 at 11.1°C. Authorization to proceed with the analyses was received by email on 12/01/2025.

### **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, MeFOSE, 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 outside the method acceptance criteria are flagged with a "Q" qualifier.

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

The labeled standard recoveries outside the acceptance criteria are flagged with a "Q" qualifier. The responses of the internal standards with low recoveries showed greater than 20:1 signal-to-noise, which is the limit considered acceptable for accurate quantitation by this method, in this situation.

## Table of Contents

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Client Project Name: GMCon-2-02-2  
Work Order Number: 2511227

1	COVER LETTER .....	1
2	CASE NARRATIVE .....	2
3	SAMPLE INVENTORY .....	4
4	SAMPLE RECEIPT CONDITIONS .....	5
5	SAMPLE RECEIPT ANOMALIES .....	6
6	CHAIN OF CUSTODY AND RECEIVING DOCUMENTS .....	7
7	ANALYTICAL RESULTS .....	9
7.1	QC Results (EPA Method 1633) .....	10
7.1.1	MB (B25L004-BLK1) .....	11
7.1.2	OPR (B25L004) .....	13
7.2	SAMPLE DATA SUMMARIES (EPA Method 1633) .....	17
8	QUALIFIERS AND NOTES .....	37
9	CERTIFICATIONS .....	38



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**Client:** Columbia West Engineering, Inc.  
**Project Number:** GMCon-2-02-2  
**Report To:** Colby Hunt

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## SAMPLE INVENTORY

<b>Sample ID</b>	<b>Client Sample ID</b>	<b>Sampled</b>	<b>Received</b>	<b>Client Matrix</b>	<b>Containers</b>
2511227-01	DP-1(2-3)	11/21/2025 10:25AM	12/01/2025 9:32AM	Soil	1
2511227-02	DP-2(5-6)	11/21/2025 10:43AM	12/01/2025 9:32AM	Soil	1
2511227-03	DP-3(3-4)	11/21/2025 10:55AM	12/01/2025 9:32AM	Soil	1
2511227-04	DP-4(29-30)	11/21/2025 11:48AM	12/01/2025 9:32AM	Soil	1
2511227-05	DP-5(10-11)	11/21/2025 12:12PM	12/01/2025 9:32AM	Soil	1
2511227-06	DP-6(3-4)	11/21/2025 12:51PM	12/01/2025 9:32AM	Soil	1
2511227-07	DP-7(5-6)	11/21/2025 1:00PM	12/01/2025 9:32AM	Soil	1
2511227-08	DP-8(5-6)	11/21/2025 1:11PM	12/01/2025 9:32AM	Soil	1
2511227-09	DP-9(2-3)	11/21/2025 1:19PM	12/01/2025 9:32AM	Soil	1
2511227-10	DP-10(3-4)	11/21/2025 1:21PM	12/01/2025 9:32AM	Soil	1

## Sample Receipt Information

	Cooler
Cooler Temperature, deg C	11.10
Type of Coolant	Ice
Tracking Number	886392348190
Shipped By	FedEx
Uncorrected Temperature,deg C	11.1
Thermometer ID	DT-6

**Cooler Comments:**

Cooler:

*Received with melted ice*

## Sample Receipt Anomalies

	Cooler
<p>The Chain-of-Custody (CoC) was not relinquished properly.</p> <p>The CoC did not include collection time(s). 00:00 will be used unless notified otherwise.</p> <p>CoC was not received, illegible, or destroyed.</p> <p>The CoC did not include a sample matrix.</p> <p>The CoC did not include an analysis.</p> <p>Sample(s) listed on the CoC were not received.</p> <p>The sample(s) were received out of temperature.</p> <p>The shipment contained broken sample containers.</p> <p>The sample(s) were received out of the method holding time.</p> <p>Sample(s) received without collection date.</p> <p>Sample(s) did not include a sample collection time.</p> <p>A sample ID discrepancy was found.</p> <p>A sample label date and/or time discrepancy was found.</p> <p>A sample was received without a sample label.</p> <p>Insufficient volume received per method requirements.</p> <p>An incorrect container-type was used.</p> <p>The Field Reagent Blank (FRB) preservative was from a different lot than the field sample.</p> <p>Sample(s) received were not listed on the CoC.</p> <p>Sample collector's name was not listed on the CoC.</p>	<p>X</p>

*For more information on individual sample anomalies, please see the attached Reconciliation Report.*



# CHAIN OF CUSTODY

PFAS Methods

**For Laboratory Use Only**  
 Work Order #: 2511227 Temp 11.1 °C  
 Storage ID WR-1 Storage Secured  Yes  No

Project ID: GMCon-2-02-2 PO# GMCon-2-02-2 Sampler: Caroline Siegel (CBS)  
 (name)

TAT Standard:  21 days  
 (check one): Rush (surcharge may apply)  
 14 days  7 days **Other 3**

Invoice to: Name Caroline Siegel Company Columbia West Engineering Address 8800 SW Nimbus Ave Ste A City Beaverton State OR Phone # 503-926-3816

Relinquished by (printed name and signature) Caroline Siegel Date 11/25/25 Time 0900 Received by (printed name and signature) Jennifer Torres Date 12/01/25 Time 0932

SHIP TO: Enthalpy Analytical - EDH  
 1104 Windfield Way  
 El Dorado Hills, CA 95762  
 (916) 673-1520  
 ATTN: \_\_\_\_\_  
 Method of Shipment: FedEx  
 Tracking No.: 886392348190

Add Analysis(es) Requested

Container(s)	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	EPA 1631-FINAL	DoD QSM Table B-15	Other	EPA 533	EPA 637.1	List of 29 (537.1 + 533)	PFAS by Isotope Dilution	Drinking Water
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- Requirements:
- State-specific (list state) \_\_\_\_\_
  - DoD QSM Compliant
  - PFAS List Below (or attach compound list).

Sample ID	Date	Time	Location/ Sample Description	Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	EPA 1631-FINAL	DoD QSM Table B-15	Other	EPA 533	EPA 637.1	List of 29 (537.1 + 533)
DP-1 (2-3)	11/21	1025	DP-1	1	PJ	SO	✓							
DP-2 (5-6)	11/21	1043	DP-2	1			✓							
DP-3 (3-4)	11/21	1055	DP-3	1			✓							
DP-4 (29-30)	11/21	1148	DP-4	1			✓							
DP-5 (10-11)	11/21	1212	DP-5	1			✓							
DP-6 (3-4)	11/21	1251	DP-6	1			✓							
DP-7 (6-6)	11/21	1300	DP-7	1			✓							
DP-8 (5-6)	11/21	1311	DP-8	1			✓							
DP-9 (2-3)	11/21	1319	DP-9	1			✓							
DP-10 (3-4)	11/21	1321	DP-10	1			✓							

Other Instructions/ Comments:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

SEND DOCUMENTATION AND RESULTS TO:

Name: Caroline Siegel  
 Company: Columbia West Engineering  
 Address: 8800 SW Nimbus Ave Ste A  
 City: Beaverton State: OR Zip: 97008  
 Phone: 503-926-3816  
 Email: CSiegel@columbiawest.com

Container Types: P= HDPE PJ= HDPE Jar  
 Bottle Preservation Type: TZ = Trizma AA = Amm. Acetate.  
 Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SO = Sediment, T=Tissue  
 PY= Polypropylene, O = Other  
 SL = Sludge, SO = Soil, WW = Wastewater, O = Other

# CoC/Label Reconciliation Report WO# 2511227

LabNumber	CoC Sample ID		SampleAlias	Sample Date/Time		Container	BaseMatrix	Sample Comments
2511227-01	A DP-1(2-3)	<input checked="" type="checkbox"/>	DP-1	21-Nov-25 10:25	<input checked="" type="checkbox"/> A	HDPE Jar	Solid	
2511227-02	A DP-2(5-6)	<input checked="" type="checkbox"/>	DP-2	21-Nov-25 10:43	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-03	A DP-3(3-4)	<input checked="" type="checkbox"/>	DP-3	21-Nov-25 10:55	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-04	A DP-4(29-30)	<input checked="" type="checkbox"/>	DP-4	21-Nov-25 11:48	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-05	A DP-5(10-11)	<input checked="" type="checkbox"/>	DP-5	21-Nov-25 12:12	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-06	A DP-6(3-4)	<input checked="" type="checkbox"/>	DP-6	21-Nov-25 12:51	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-07	A DP-7(5-6)	<input checked="" type="checkbox"/>	DP-7	21-Nov-25 13:00	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-08	A DP-8(5-6)	<input checked="" type="checkbox"/>	DP-8	21-Nov-25 13:11	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-09	A DP-9(2-3)	<input checked="" type="checkbox"/>	DP-9	21-Nov-25 13:19	<input checked="" type="checkbox"/>	HDPE Jar	Solid	
2511227-10	A DP-10(3-4)	<input checked="" type="checkbox"/>	DP-10	21-Nov-25 13:21	<input checked="" type="checkbox"/>	HDPE Jar	Solid	

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 Year missing from COC and sample label date.

Preservation Documented: Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> Trizma NH<sub>4</sub>CH<sub>3</sub>CO<sub>2</sub> None Other

Verified by/Date: JT 12/01/25



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Client: Columbia West Engineering, Inc.

Project Number: VMCON PFAS

Report To: Colby Hunt

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# ANALYTICAL RESULTS



# QC RESULTS

**Sample ID: Method Blank**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Solid	Lab Sample:	B25L004-BLK1	Column:	BEH C18
Project:	GMCOn-2-02-2						

Analyte	CAS Number	Conc. (ug/kg)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.00849	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFMPA	377-73-1	ND	0.0147	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
3:3 FTCA	356-02-5	ND	0.0353	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFPeA	2706-90-3	ND	0.0228	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFMBA	863090-89-5	ND	0.0212	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
4:2 FTS	757124-72-4	ND	0.0301	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
NFDHA	151772-58-6	ND	0.0196	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFBS	375-73-5	ND	0.0121	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFHxA	307-24-4	ND	0.0290	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
HFPO-DA	13252-13-6	ND	0.0172	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFEESA	113507-82-7	ND	0.0108	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
5:3 FTCA	914637-49-3	ND	0.0252	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFHpA	375-85-9	ND	0.0141	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFPeS	2706-91-4	ND	0.0118	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
ADONA	919005-14-4	ND	0.00685	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
6:2 FTS	27619-97-2	ND	0.0272	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFOA	335-67-1	ND	0.0280	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFHxS	355-46-4	ND	0.0152	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
7:3 FTCA	812-70-4	ND	0.0331	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFNA	375-95-1	ND	0.0274	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFHpS	375-92-8	ND	0.0220	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
8:2 FTS	39108-34-4	ND	0.0364	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFDA	335-76-2	ND	0.0136	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
MeFOSAA	2355-31-9	ND	0.0389	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFOS	1763-23-1	ND	0.0513	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
EtFOSAA	2991-50-6	ND	0.0325	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFUnA	2058-94-8	ND	0.0283	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
9Cl-PF3ONS	756426-58-1	ND	0.0211	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFNS	68259-12-1	ND	0.0281	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFDoA	307-55-1	ND	0.0140	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFDS	335-77-3	ND	0.0106	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFOSA	754-91-6	ND	0.0209	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFTTrDA	72629-94-8	ND	0.0179	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
11Cl-PF3OUdS	763051-92-9	ND	0.00679	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFTeDA	376-06-7	ND	0.0216	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
PFDoS	79780-39-5	ND	0.0151	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
MeFOSE	24448-09-7	ND	0.0174	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
MeFOSA	31506-32-8	ND	0.0210	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1
EtFOSE	1691-99-2	ND	0.0154	0.100	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1

Sample ID: Method Blank											EPA Method 1633
Client Data						Laboratory Data					
Name:	Columbia West Engineering, Inc.			Matrix:	Solid		Lab Sample:	B25L004-BLK1		Column:	BEH C18
Project:	GMCon-2-02-2										
Analyte	CAS Number	Conc. (ug/kg)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
EtFOSA	4151-50-2	ND	0.0204	0.200	U	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	80	10 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C5-PFPeA	IS	74	35 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C2-4:2 FTS	IS	91	40 - 165			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C3-PFBS	IS	82	40 - 135			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C5-PFHxA	IS	75	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C3-HFPO-DA	IS	71	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C4-PFHpA	IS	80	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C2-6:2 FTS	IS	67	40 - 215			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C8-PFOA	IS	78	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C3-PFHxS	IS	79	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C9-PFNA	IS	77	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C2-8:2 FTS	IS	67	40 - 275			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C6-PFDA	IS	85	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
d3-MeFOSAA	IS	70	40 - 135			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C8-PFOS	IS	77	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
d5-EtFOSAA	IS	77	40 - 150			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C7-PFU <sub>n</sub> A	IS	89	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C2-PFD <sub>o</sub> A	IS	90	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C8-PFOSA	IS	79	40 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
13C2-PFTeDA	IS	72	20 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
d7-MeFOSE	IS	25	20 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
d3-MeFOSA	IS	22	10 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
d9-EtFOSE	IS	19	15 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	
d5-EtFOSA	IS	13	10 - 130			B25L004	02-Dec-25	5.00 g	03-Dec-25 10:18	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: OPR****EPA Method 1633**

Client Data					Laboratory Data							
Name:	Columbia West Engineering, Inc.			Matrix:	Solid		Lab Sample:	B25L004-BS1	Column:	BEH C18		
Project:	GMCon-2-02-2											
Analyte	CAS Number	Amt Found (ug/kg)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	0.476	0.500	95	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFMPA	377-73-1	0.488	0.500	98	30 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
3:3 FTCA	356-02-5	1.00	1.00	100	45 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFPeA	2706-90-3	0.494	0.500	99	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFMBA	863090-89-5	0.521	0.500	104	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
4:2 FTS	757124-72-4	0.762	0.936	81	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
NFDHA	151772-58-6	0.432	0.500	86	60 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFBS	375-73-5	0.468	0.444	105	65 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFHxA	307-24-4	0.498	0.500	100	65 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
HFPO-DA	13252-13-6	0.484	0.500	97	70 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFEESA	113507-82-7	0.471	0.448	105	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
5:3 FTCA	914637-49-3	1.09	1.00	109	60 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFHpA	375-85-9	0.517	0.500	103	65 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFPeS	2706-91-4	0.425	0.472	90	55 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
ADONA	919005-14-4	0.464	0.472	98	70 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
6:2 FTS	27619-97-2	1.03	0.952	109	55 - 200		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFOA	335-67-1	1.06	1.00	106	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFHxS	355-46-4	0.439	0.456	96	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
7:3 FTCA	812-70-4	1.11	1.00	111	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFNA	375-95-1	0.530	0.500	106	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFHpS	375-92-8	0.497	0.480	103	65 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
8:2 FTS	39108-34-4	1.10	0.960	114	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFDA	335-76-2	0.513	0.500	103	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
MeFOSAA	2355-31-9	1.24	1.00	124	65 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFOS	1763-23-1	0.487	0.464	105	65 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
EtFOSAA	2991-50-6	1.14	1.00	114	65 - 165		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFUnA	2058-94-8	0.514	0.500	103	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
9Cl-PF3ONS	756426-58-1	0.492	0.468	105	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFNS	68259-12-1	0.499	0.480	104	55 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFDoA	307-55-1	0.510	0.500	102	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFDS	335-77-3	0.503	0.484	104	40 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFOSA	754-91-6	1.18	1.00	118	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
PFTTrDA	72629-94-8	0.556	0.500	111	65 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	
11Cl-PF3OUdS	763051-92-9	0.459	0.472	97	45 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1	

Sample ID: OPR

EPA Method 1633

Client Data					Laboratory Data							
Name:	Columbia West Engineering, Inc.			Matrix:	Solid		Lab Sample:	B25L004-BS1		Column:	BEH C18	
Project:	GMCon-2-02-2											

Analyte	CAS Number	Amt Found (ug/kg)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTeDA	376-06-7	0.535	0.500	107	65 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
PFDoS	79780-39-5	0.470	0.488	96	25 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
MeFOSE	24448-09-7	0.490	0.500	98	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
MeFOSA	31506-32-8	1.15	1.00	115	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
EtFOSE	1691-99-2	0.535	0.500	107	70 - 135		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
EtFOSA	4151-50-2	1.39	1.00	139	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
Labeled Standards			Type	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA			IS	93	10 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C5-PFPeA			IS	85	35 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C2-4:2 FTS			IS	112	40 - 165		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C3-PFBS			IS	90	40 - 135		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C5-PFHxA			IS	87	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C3-HFPO-DA			IS	90	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C4-PFHpA			IS	83	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C2-6:2 FTS			IS	81	40 - 215		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C8-PFOA			IS	100	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C3-PFHxS			IS	96	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C9-PFNA			IS	96	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C2-8:2 FTS			IS	75	40 - 275		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C6-PFDA			IS	93	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
d3-MeFOSAA			IS	80	40 - 135		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C8-PFOS			IS	91	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
d5-EtFOSAA			IS	84	40 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C7-PFUnA			IS	90	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C2-PFDoA			IS	99	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C8-PFOSA			IS	90	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
13C2-PFTeDA			IS	75	20 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
d7-MeFOSE			IS	33	20 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
d3-MeFOSA			IS	46	10 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
d9-EtFOSE			IS	28	15 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1
d5-EtFOSA			IS	29	10 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:32	1

**Sample ID: OPR****EPA Method 1633**

Client Data					Laboratory Data							
Name:	Columbia West Engineering, Inc.			Matrix:	Solid		Lab Sample:	B25L004-BS2	Column:	BEH C18		
Project:	GMCon-2-02-2											
Analyte	CAS Number	Amt Found (ug/kg)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
PFBA	375-22-4	0.157	0.160	98	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFMPA	377-73-1	0.150	0.160	94	30 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
3:3 FTCA	356-02-5	0.333	0.320	104	45 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFPeA	2706-90-3	0.165	0.160	103	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFMBA	863090-89-5	0.163	0.160	102	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
4:2 FTS	757124-72-4	0.304	0.300	101	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
NFDHA	151772-58-6	0.157	0.160	98	60 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFBS	375-73-5	0.155	0.142	109	65 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFHxA	307-24-4	0.160	0.160	100	65 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
HFPO-DA	13252-13-6	0.170	0.160	106	70 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFEESA	113507-82-7	0.160	0.143	112	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
5:3 FTCA	914637-49-3	0.357	0.320	112	60 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFHpA	375-85-9	0.173	0.160	108	65 - 145		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFPeS	2706-91-4	0.157	0.151	104	55 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
ADONA	919005-14-4	0.160	0.151	106	70 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
6:2 FTS	27619-97-2	0.376	0.305	123	55 - 200		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFOA	335-67-1	0.343	0.320	107	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFHxS	355-46-4	0.149	0.146	102	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
7:3 FTCA	812-70-4	0.378	0.320	118	60 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFNA	375-95-1	0.147	0.160	92	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFHpS	375-92-8	0.152	0.154	99	65 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
8:2 FTS	39108-34-4	0.447	0.307	145	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFDA	335-76-2	0.178	0.160	111	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
MeFOSAA	2355-31-9	0.411	0.320	128	65 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFOS	1763-23-1	0.156	0.148	105	65 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
EtFOSAA	2991-50-6	0.335	0.320	105	65 - 165		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFUnA	2058-94-8	0.187	0.160	117	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
9Cl-PF3ONS	756426-58-1	0.164	0.150	110	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFNS	68259-12-1	0.160	0.154	104	55 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFDoA	307-55-1	0.198	0.160	124	70 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFDS	335-77-3	0.147	0.155	95	40 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFOSA	754-91-6	0.394	0.320	123	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
PFTTrDA	72629-94-8	0.173	0.160	108	65 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	
11Cl-PF3OUdS	763051-92-9	0.150	0.151	99	45 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1	

Sample ID: OPR

EPA Method 1633

Client Data					Laboratory Data							
Name:	Columbia West Engineering, Inc.			Matrix:	Solid		Lab Sample:	B25L004-BS2		Column:	BEH C18	
Project:	GMCon-2-02-2											

Analyte	CAS Number	Amt Found (ug/kg)	Spike Amt	% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFTeDA	376-06-7	0.183	0.160	114	65 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
PFDoS	79780-39-5	0.130	0.156	83	25 - 160		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
MeFOSE	24448-09-7	0.198	0.160	124	70 - 140		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
MeFOSA	31506-32-8	0.442	0.320	138	70 - 155		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
EtFOSE	1691-99-2	0.183	0.160	114	70 - 135		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
EtFOSA	4151-50-2	0.500	0.320	156	70 - 140	Q	B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
Labeled Standards		Type		% Rec	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA		IS		100	10 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C5-PFPeA		IS		93	35 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C2-4:2 FTS		IS		109	40 - 165		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C3-PFBS		IS		102	40 - 135		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C5-PFHxA		IS		92	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C3-HFPO-DA		IS		92	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C4-PFHpA		IS		91	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C2-6:2 FTS		IS		84	40 - 215		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C8-PFOA		IS		102	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C3-PFHxS		IS		98	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C9-PFNA		IS		98	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C2-8:2 FTS		IS		81	40 - 275		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C6-PFDA		IS		100	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
d3-MeFOSAA		IS		81	40 - 135		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C8-PFOS		IS		94	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
d5-EtFOSAA		IS		95	40 - 150		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C7-PFUnA		IS		100	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C2-PFDoA		IS		103	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C8-PFOSA		IS		88	40 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
13C2-PFTeDA		IS		82	20 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
d7-MeFOSE		IS		25	20 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
d3-MeFOSA		IS		28	10 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
d9-EtFOSE		IS		19	15 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1
d5-EtFOSA		IS		17	10 - 130		B25L004	02-Dec-25	5.00 g	03-Dec-25 10:46	1

**Sample ID: DP-1(2-3)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-01	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 10:25	Date Received:	01-Dec-25 09:32		
Location:	DP-1			% Solids:	70.8		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.00846	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFMPA	377-73-1	ND	0.0147	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
3:3 FTCA	356-02-5	ND	0.0352	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFPeA	2706-90-3	0.0335	0.0227	0.0997	I, J	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFMBA	863090-89-5	ND	0.0211	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
4:2 FTS	757124-72-4	ND	0.0300	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
NFDHA	151772-58-6	ND	0.0195	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFBS	375-73-5	ND	0.0121	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFHxA	307-24-4	ND	0.0289	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
HFPO-DA	13252-13-6	ND	0.0171	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFEESA	113507-82-7	ND	0.0108	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
5:3 FTCA	914637-49-3	ND	0.0251	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFHpA	375-85-9	ND	0.0141	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFPeS	2706-91-4	ND	0.0118	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
ADONA	919005-14-4	ND	0.00683	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
6:2 FTS	27619-97-2	0.0464	0.0271	0.199	J	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFOA	335-67-1	ND	0.0279	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFHxS	355-46-4	ND	0.0152	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
7:3 FTCA	812-70-4	ND	0.0330	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFNA	375-95-1	ND	0.0273	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFHpS	375-92-8	ND	0.0219	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
8:2 FTS	39108-34-4	ND	0.0363	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFDA	335-76-2	ND	0.0136	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
MeFOSAA	2355-31-9	ND	0.0388	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFOS	1763-23-1	ND	0.0511	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
EtFOSAA	2991-50-6	ND	0.0324	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFUnA	2058-94-8	ND	0.0282	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
9Cl-PF3ONS	756426-58-1	ND	0.0210	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFNS	68259-12-1	ND	0.0280	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFDoA	307-55-1	ND	0.0140	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFDS	335-77-3	ND	0.0106	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFOSA	754-91-6	ND	0.0208	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFTTrDA	72629-94-8	ND	0.0178	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
11Cl-PF3OUdS	763051-92-9	ND	0.00677	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFTeDA	376-06-7	ND	0.0215	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
PFDoS	79780-39-5	ND	0.0151	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1
MeFOSE	24448-09-7	ND	0.0173	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1

Sample ID: DP-1(2-3)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-01		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 10:25	Date Received:	01-Dec-25 09:32				
Location:	DP-1						% Solids:	70.8			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0209	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
EtFOSE	1691-99-2	ND	0.0154	0.0997	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
EtFOSA	4151-50-2	ND	0.0203	0.199	U	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	77	10 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C5-PFPeA	IS	71	35 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C2-4:2 FTS	IS	92	40 - 165			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C3-PFBS	IS	80	40 - 135			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C5-PFHxA	IS	73	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C3-HFPO-DA	IS	73	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C4-PFHpA	IS	73	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C2-6:2 FTS	IS	69	40 - 215			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C8-PFOA	IS	78	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C3-PFHxS	IS	81	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C9-PFNA	IS	74	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C2-8:2 FTS	IS	70	40 - 275			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C6-PFDA	IS	86	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
d3-MeFOSAA	IS	65	40 - 135			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C8-PFOS	IS	77	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
d5-EtFOSAA	IS	73	40 - 150			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C7-PFUnA	IS	86	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C2-PFDoA	IS	88	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C8-PFOSA	IS	69	40 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
13C2-PFTeDA	IS	78	20 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
d7-MeFOSE	IS	20	20 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
d3-MeFOSA	IS	11	10 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
d9-EtFOSE	IS	21	15 - 130			B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	
d5-EtFOSA	IS	6.91	10 - 130		Q	B25L004	02-Dec-25	7.08 g	03-Dec-25 11:00	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-2(5-6)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-02	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 10:43	Date Received:	01-Dec-25 09:32		
Location:	DP-2			% Solids:	71.8		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.00848	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFMPA	377-73-1	ND	0.0147	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
3:3 FTCA	356-02-5	ND	0.0352	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFPeA	2706-90-3	ND	0.0228	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFMBA	863090-89-5	ND	0.0212	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
4:2 FTS	757124-72-4	ND	0.0301	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
NFDHA	151772-58-6	ND	0.0196	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFBS	375-73-5	ND	0.0121	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFHxA	307-24-4	ND	0.0290	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
HFPO-DA	13252-13-6	ND	0.0172	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFEESA	113507-82-7	ND	0.0108	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
5:3 FTCA	914637-49-3	ND	0.0252	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFHpA	375-85-9	ND	0.0141	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFPeS	2706-91-4	ND	0.0118	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
ADONA	919005-14-4	ND	0.00684	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
6:2 FTS	27619-97-2	ND	0.0272	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFOA	335-67-1	ND	0.0280	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFHxS	355-46-4	0.0255	0.0152	0.0999	J	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
7:3 FTCA	812-70-4	ND	0.0331	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFNA	375-95-1	ND	0.0274	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFHpS	375-92-8	ND	0.0220	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
8:2 FTS	39108-34-4	ND	0.0363	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFDA	335-76-2	ND	0.0136	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
MeFOSAA	2355-31-9	ND	0.0388	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFOS	1763-23-1	ND	0.0512	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
EtFOSAA	2991-50-6	ND	0.0325	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFUnA	2058-94-8	ND	0.0283	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
9Cl-PF3ONS	756426-58-1	ND	0.0211	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFNS	68259-12-1	ND	0.0281	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFDoA	307-55-1	ND	0.0140	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFDS	335-77-3	ND	0.0106	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFOSA	754-91-6	ND	0.0209	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFTTrDA	72629-94-8	ND	0.0179	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
11Cl-PF3OUdS	763051-92-9	ND	0.00678	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFTeDA	376-06-7	ND	0.0216	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
PFDoS	79780-39-5	ND	0.0151	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1
MeFOSE	24448-09-7	ND	0.0174	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1

Sample ID: DP-2(5-6)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-02		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 10:43	Date Received:	01-Dec-25 09:32				
Location:	DP-2						% Solids:	71.8			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0210	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
EtFOSE	1691-99-2	ND	0.0154	0.0999	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
EtFOSA	4151-50-2	ND	0.0204	0.200	U	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	76	10 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C5-PFPeA	IS	75	35 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C2-4:2 FTS	IS	81	40 - 165			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C3-PFBS	IS	72	40 - 135			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C5-PFHxA	IS	78	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C3-HFPO-DA	IS	79	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C4-PFHpA	IS	75	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C2-6:2 FTS	IS	68	40 - 215			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C8-PFOA	IS	72	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C3-PFHxS	IS	74	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C9-PFNA	IS	77	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C2-8:2 FTS	IS	61	40 - 275			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C6-PFDA	IS	75	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
d3-MeFOSAA	IS	63	40 - 135			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C8-PFOS	IS	74	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
d5-EtFOSAA	IS	70	40 - 150			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C7-PFUnA	IS	77	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C2-PFDoA	IS	82	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C8-PFOSA	IS	67	40 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
13C2-PFTeDA	IS	71	20 - 130			B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
d7-MeFOSE	IS	9.74	20 - 130		Q	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
d3-MeFOSA	IS	4.2	10 - 130		Q	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
d9-EtFOSE	IS	8.92	15 - 130		Q	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	
d5-EtFOSA	IS	3.18	10 - 130		Q	B25L004	02-Dec-25	6.97 g	03-Dec-25 11:13	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-3(3-4)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-03	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 10:55	Date Received:	01-Dec-25 09:32		
Location:	DP-3			% Solids:	75.1		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	0.0692	0.00844	0.0994	J	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFMPA	377-73-1	ND	0.0146	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
3:3 FTCA	356-02-5	ND	0.0351	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFPeA	2706-90-3	0.154	0.0227	0.0994		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFMBA	863090-89-5	ND	0.0211	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
4:2 FTS	757124-72-4	ND	0.0299	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
NFDHA	151772-58-6	ND	0.0195	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFBS	375-73-5	0.0266	0.0120	0.0994	J	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFHxA	307-24-4	0.174	0.0288	0.0994		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
HFPO-DA	13252-13-6	ND	0.0171	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFEESA	113507-82-7	ND	0.0107	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
5:3 FTCA	914637-49-3	ND	0.0250	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFHpA	375-85-9	0.136	0.0140	0.0994		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFPeS	2706-91-4	0.0198	0.0117	0.0994	J	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
ADONA	919005-14-4	ND	0.00681	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
6:2 FTS	27619-97-2	ND	0.0270	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFOA	335-67-1	0.619	0.0278	0.199		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFHxS	355-46-4	0.388	0.0151	0.0994		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
7:3 FTCA	812-70-4	ND	0.0329	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFNA	375-95-1	0.291	0.0272	0.0994		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFHpS	375-92-8	ND	0.0219	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
8:2 FTS	39108-34-4	ND	0.0362	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFDA	335-76-2	0.500	0.0135	0.0994		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
MeFOSAA	2355-31-9	ND	0.0386	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFOS	1763-23-1	0.705	0.0510	0.0994		B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
EtFOSAA	2991-50-6	ND	0.0323	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFUnA	2058-94-8	ND	0.0281	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
9Cl-PF3ONS	756426-58-1	ND	0.0210	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFNS	68259-12-1	ND	0.0279	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFDoA	307-55-1	ND	0.0139	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFDS	335-77-3	ND	0.0105	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFOSA	754-91-6	ND	0.0208	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFTTrDA	72629-94-8	ND	0.0178	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
11Cl-PF3OUdS	763051-92-9	ND	0.00675	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFTeDA	376-06-7	ND	0.0215	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
PFDoS	79780-39-5	ND	0.0150	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1
MeFOSE	24448-09-7	ND	0.0173	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1

Sample ID: DP-3(3-4)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-03		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 10:55	Date Received:	01-Dec-25 09:32				
Location:	DP-3						% Solids:	75.1			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0209	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
EtFOSE	1691-99-2	ND	0.0153	0.0994	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
EtFOSA	4151-50-2	ND	0.0203	0.199	U	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	91	10 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C5-PFPeA	IS	88	35 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C2-4:2 FTS	IS	98	40 - 165			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C3-PFBS	IS	89	40 - 135			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C5-PFHxA	IS	85	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C3-HFPO-DA	IS	91	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C4-PFHpA	IS	85	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C2-6:2 FTS	IS	79	40 - 215			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C8-PFOA	IS	94	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C3-PFHxS	IS	89	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C9-PFNA	IS	83	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C2-8:2 FTS	IS	77	40 - 275			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C6-PFDA	IS	89	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
d3-MeFOSAA	IS	74	40 - 135			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C8-PFOS	IS	91	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
d5-EtFOSAA	IS	83	40 - 150			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C7-PFUnA	IS	93	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C2-PFDoA	IS	99	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C8-PFOA	IS	80	40 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
13C2-PFTeDA	IS	78	20 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
d7-MeFOSE	IS	17	20 - 130		Q	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
d3-MeFOSA	IS	9.69	10 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
d9-EtFOSE	IS	15	15 - 130			B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	
d5-EtFOSA	IS	5.91	10 - 130		Q	B25L004	02-Dec-25	6.70 g	03-Dec-25 11:27	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-4(29-30)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-04	Column:	BEH C18
Project:	GMCon-2-02-2	Date Collected:	21-Nov-25 11:48	Date Received:	01-Dec-25 09:32		
Location:	DP-4			% Solids:	64.2		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.00849	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFMPA	377-73-1	ND	0.0147	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
3:3 FTCA	356-02-5	ND	0.0353	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFPeA	2706-90-3	ND	0.0228	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFMBA	863090-89-5	ND	0.0212	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
4:2 FTS	757124-72-4	ND	0.0301	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
NFDHA	151772-58-6	ND	0.0196	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFBS	375-73-5	ND	0.0121	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFHxA	307-24-4	ND	0.0290	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
HFPO-DA	13252-13-6	ND	0.0172	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFEESA	113507-82-7	ND	0.0108	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
5:3 FTCA	914637-49-3	ND	0.0252	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFHpA	375-85-9	ND	0.0141	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFPeS	2706-91-4	ND	0.0118	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
ADONA	919005-14-4	ND	0.00685	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
6:2 FTS	27619-97-2	ND	0.0272	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFOA	335-67-1	ND	0.0280	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFHxS	355-46-4	ND	0.0152	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
7:3 FTCA	812-70-4	ND	0.0331	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFNA	375-95-1	ND	0.0274	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFHpS	375-92-8	ND	0.0220	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
8:2 FTS	39108-34-4	ND	0.0364	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFDA	335-76-2	ND	0.0136	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
MeFOSAA	2355-31-9	ND	0.0389	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFOS	1763-23-1	ND	0.0513	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
EtFOSAA	2991-50-6	ND	0.0325	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFUnA	2058-94-8	ND	0.0283	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
9Cl-PF3ONS	756426-58-1	ND	0.0211	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFNS	68259-12-1	ND	0.0281	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFDoA	307-55-1	ND	0.0140	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFDS	335-77-3	ND	0.0106	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFOSA	754-91-6	ND	0.0209	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFTTrDA	72629-94-8	ND	0.0179	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
11Cl-PF3OUdS	763051-92-9	ND	0.00679	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFTeDA	376-06-7	ND	0.0216	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
PFDoS	79780-39-5	ND	0.0151	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1
MeFOSE	24448-09-7	ND	0.0174	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1

Sample ID: DP-4(29-30)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-04		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 11:48	Date Received:	01-Dec-25 09:32				
Location:	DP-4						% Solids:	64.2			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0210	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
EtFOSE	1691-99-2	ND	0.0154	0.100	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
EtFOSA	4151-50-2	ND	0.0204	0.200	U	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	83	10 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C5-PFPeA	IS	83	35 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C2-4:2 FTS	IS	95	40 - 165			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C3-PFBS	IS	79	40 - 135			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C5-PFHxA	IS	78	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C3-HFPO-DA	IS	77	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C4-PFHpA	IS	81	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C2-6:2 FTS	IS	71	40 - 215			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C8-PFOA	IS	82	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C3-PFHxS	IS	81	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C9-PFNA	IS	74	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C2-8:2 FTS	IS	75	40 - 275			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C6-PFDA	IS	88	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
d3-MeFOSAA	IS	70	40 - 135			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C8-PFOS	IS	83	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
d5-EtFOSAA	IS	76	40 - 150			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C7-PFUnA	IS	88	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C2-PFDoA	IS	90	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C8-PFOSA	IS	72	40 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
13C2-PFTeDA	IS	73	20 - 130			B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
d7-MeFOSE	IS	11	20 - 130		Q	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
d3-MeFOSA	IS	4.5	10 - 130		Q	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
d9-EtFOSE	IS	10	15 - 130		Q	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	
d5-EtFOSA	IS	2.6	10 - 130		Q	B25L004	02-Dec-25	7.79 g	03-Dec-25 11:41	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-5(10-11)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-05	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 12:12	Date Received:	01-Dec-25 09:32		
Location:	DP-5			% Solids:	77.2		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	0.0266	0.00846	0.0996	J	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFMPA	377-73-1	ND	0.0146	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
3:3 FTCA	356-02-5	ND	0.0352	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFPeA	2706-90-3	0.0312	0.0227	0.0996	I, J	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFMBA	863090-89-5	ND	0.0211	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
4:2 FTS	757124-72-4	ND	0.0300	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
NFDHA	151772-58-6	ND	0.0195	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFBS	375-73-5	ND	0.0121	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFHxA	307-24-4	ND	0.0289	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
HFPO-DA	13252-13-6	ND	0.0171	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFEESA	113507-82-7	ND	0.0108	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
5:3 FTCA	914637-49-3	ND	0.0251	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFHpA	375-85-9	0.0195	0.0140	0.0996	I, J	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFPeS	2706-91-4	ND	0.0118	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
ADONA	919005-14-4	ND	0.00682	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
6:2 FTS	27619-97-2	ND	0.0271	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFOA	335-67-1	0.0454	0.0279	0.199	J	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFHxS	355-46-4	0.156	0.0151	0.0996		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
7:3 FTCA	812-70-4	ND	0.0330	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFNA	375-95-1	ND	0.0273	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFHpS	375-92-8	ND	0.0219	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
8:2 FTS	39108-34-4	ND	0.0363	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFDA	335-76-2	ND	0.0135	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
MeFOSAA	2355-31-9	ND	0.0387	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFOS	1763-23-1	0.978	0.0511	0.0996		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
EtFOSAA	2991-50-6	ND	0.0324	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFUnA	2058-94-8	ND	0.0282	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
9Cl-PF3ONS	756426-58-1	ND	0.0210	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFNS	68259-12-1	ND	0.0280	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFDoA	307-55-1	ND	0.0139	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFDS	335-77-3	ND	0.0106	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFOSA	754-91-6	ND	0.0208	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFTTrDA	72629-94-8	ND	0.0178	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
11Cl-PF3OUdS	763051-92-9	ND	0.00676	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFTeDA	376-06-7	ND	0.0215	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
PFDoS	79780-39-5	ND	0.0150	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
MeFOSE	24448-09-7	ND	0.0173	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1

**Sample ID: DP-5(10-11)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-05	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 12:12	Date Received:	01-Dec-25 09:32		
Location:	DP-5			% Solids:	77.2		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSA	31506-32-8	ND	0.0209	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
EtFOSE	1691-99-2	ND	0.0153	0.0996	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
EtFOSA	4151-50-2	ND	0.0203	0.199	U	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	98	10 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C5-PFPeA	IS	93	35 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C2-4:2 FTS	IS	111	40 - 165		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C3-PFBS	IS	97	40 - 135		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C5-PFHxA	IS	90	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C3-HFPO-DA	IS	92	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C4-PFHpA	IS	91	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C2-6:2 FTS	IS	82	40 - 215		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C8-PFOA	IS	95	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C3-PFHxS	IS	96	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C9-PFNA	IS	92	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C2-8:2 FTS	IS	85	40 - 275		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C6-PFDA	IS	96	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
d3-MeFOSAA	IS	90	40 - 135		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C8-PFOS	IS	96	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
d5-EtFOSAA	IS	86	40 - 150		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C7-PFUnA	IS	98	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C2-PFDoA	IS	107	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C8-PFOA	IS	92	40 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
13C2-PFTeDA	IS	88	20 - 130		B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
d7-MeFOSE	IS	16	20 - 130	Q	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
d3-MeFOSA	IS	7.1	10 - 130	Q	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
d9-EtFOSE	IS	14	15 - 130	Q	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1
d5-EtFOSA	IS	4.7	10 - 130	Q	B25L004	02-Dec-25	6.50 g	03-Dec-25 11:55	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-6(3-4)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-06	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 12:51	Date Received:	01-Dec-25 09:32		
Location:	DP-6			% Solids:	86.8		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	ND	0.00842	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFMPA	377-73-1	ND	0.0146	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
3:3 FTCA	356-02-5	ND	0.0350	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFPeA	2706-90-3	ND	0.0226	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFMBA	863090-89-5	ND	0.0210	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
4:2 FTS	757124-72-4	ND	0.0299	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
NFDHA	151772-58-6	ND	0.0194	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFBS	375-73-5	ND	0.0120	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFHxA	307-24-4	ND	0.0288	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
HFPO-DA	13252-13-6	ND	0.0171	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFEESA	113507-82-7	ND	0.0107	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
5:3 FTCA	914637-49-3	ND	0.0250	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFHpA	375-85-9	ND	0.0140	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFPeS	2706-91-4	ND	0.0117	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
ADONA	919005-14-4	ND	0.00679	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
6:2 FTS	27619-97-2	ND	0.0270	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFOA	335-67-1	ND	0.0278	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFHxS	355-46-4	0.0975	0.0151	0.0992	J	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
7:3 FTCA	812-70-4	ND	0.0328	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFNA	375-95-1	ND	0.0272	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFHpS	375-92-8	ND	0.0218	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
8:2 FTS	39108-34-4	ND	0.0361	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFDA	335-76-2	ND	0.0135	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
MeFOSAA	2355-31-9	ND	0.0386	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFOS	1763-23-1	ND	0.0509	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
EtFOSAA	2991-50-6	ND	0.0322	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFUnA	2058-94-8	ND	0.0281	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
9Cl-PF3ONS	756426-58-1	ND	0.0209	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFNS	68259-12-1	ND	0.0279	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFDoA	307-55-1	ND	0.0139	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFDS	335-77-3	ND	0.0105	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFOSA	754-91-6	ND	0.0207	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFTTrDA	72629-94-8	ND	0.0178	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
11Cl-PF3OUdS	763051-92-9	ND	0.00673	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFTeDA	376-06-7	ND	0.0214	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
PFDoS	79780-39-5	ND	0.0150	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
MeFOSE	24448-09-7	ND	0.0173	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1

**Sample ID: DP-6(3-4)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-06	Column:	BEH C18
Project:	GMCon-2-02-2	Date Collected:	21-Nov-25 12:51	Date Received:	01-Dec-25 09:32		
Location:	DP-6			% Solids:	86.8		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
MeFOSA	31506-32-8	ND	0.0208	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
EtFOSE	1691-99-2	ND	0.0153	0.0992	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
EtFOSA	4151-50-2	ND	0.0202	0.198	U	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1

Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
13C4-PFBA	IS	97	10 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C5-PFPeA	IS	90	35 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C2-4:2 FTS	IS	112	40 - 165		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C3-PFBS	IS	94	40 - 135		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C5-PFHxA	IS	91	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C3-HFPO-DA	IS	93	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C4-PFHpA	IS	88	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C2-6:2 FTS	IS	80	40 - 215		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C8-PFOA	IS	91	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C3-PFHxS	IS	96	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C9-PFNA	IS	96	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C2-8:2 FTS	IS	78	40 - 275		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C6-PFDA	IS	100	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
d3-MeFOSAA	IS	74	40 - 135		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C8-PFOS	IS	94	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
d5-EtFOSAA	IS	81	40 - 150		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C7-PFUnA	IS	96	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C2-PFDoA	IS	101	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C8-PFOA	IS	84	40 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
13C2-PFTeDA	IS	81	20 - 130		B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
d7-MeFOSE	IS	12	20 - 130	Q	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
d3-MeFOSA	IS	4.83	10 - 130	Q	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
d9-EtFOSE	IS	9.07	15 - 130	Q	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1
d5-EtFOSA	IS	3.21	10 - 130	Q	B25L004	02-Dec-25	5.81 g	03-Dec-25 12:09	1

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

Sample ID: DP-7(5-6)

EPA Method 1633

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-07	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 13:00	Date Received:	01-Dec-25 09:32		
Location:	DP-7			% Solids:	59.2		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	0.0223	0.00845	0.0995	J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFMPA	377-73-1	ND	0.0146	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
3:3 FTCA	356-02-5	ND	0.0351	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFPeA	2706-90-3	0.0498	0.0227	0.0995	I, J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFMBA	863090-89-5	ND	0.0211	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
4:2 FTS	757124-72-4	ND	0.0300	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
NFDHA	151772-58-6	ND	0.0195	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFBS	375-73-5	0.0177	0.0120	0.0995	J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFHxA	307-24-4	0.0510	0.0289	0.0995	J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
HFPO-DA	13252-13-6	ND	0.0171	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFEESA	113507-82-7	ND	0.0107	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
5:3 FTCA	914637-49-3	ND	0.0251	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFHpA	375-85-9	0.0179	0.0140	0.0995	J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFPeS	2706-91-4	0.0158	0.0117	0.0995	J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
ADONA	919005-14-4	ND	0.00682	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
6:2 FTS	27619-97-2	ND	0.0271	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFOA	335-67-1	0.0481	0.0279	0.199	J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFHxS	355-46-4	0.405	0.0151	0.0995		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
7:3 FTCA	812-70-4	ND	0.0329	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFNA	375-95-1	ND	0.0273	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFHpS	375-92-8	ND	0.0219	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
8:2 FTS	39108-34-4	ND	0.0362	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFDA	335-76-2	ND	0.0135	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
MeFOSAA	2355-31-9	ND	0.0387	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFOS	1763-23-1	2.08	0.0511	0.0995		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
EtFOSAA	2991-50-6	ND	0.0323	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFUnA	2058-94-8	ND	0.0282	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
9Cl-PF3ONS	756426-58-1	ND	0.0210	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFNS	68259-12-1	ND	0.0280	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFDoA	307-55-1	ND	0.0139	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFDS	335-77-3	0.0248	0.0106	0.0995	J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFOSA	754-91-6	0.0322	0.0208	0.199	I, J	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFTTrDA	72629-94-8	ND	0.0178	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
11Cl-PF3OUdS	763051-92-9	ND	0.00676	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFTeDA	376-06-7	ND	0.0215	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
PFDoS	79780-39-5	ND	0.0150	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1
MeFOSE	24448-09-7	ND	0.0173	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1

Sample ID: DP-7(5-6)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-07		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 13:00	Date Received:	01-Dec-25 09:32				
Location:	DP-7						% Solids:	59.2			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0209	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1	
EtFOSE	1691-99-2	ND	0.0153	0.0995	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1	
EtFOSA	4151-50-2	ND	0.0203	0.199	U	B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1	
Labeled Standards	Type	% Recovery	Limits	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution		
13C4-PFBA	IS	78	10 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C5-PFPeA	IS	76	35 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C2-4:2 FTS	IS	90	40 - 165		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C3-PFBS	IS	79	40 - 135		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C5-PFHxA	IS	77	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C3-HFPO-DA	IS	77	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C4-PFHpA	IS	76	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C2-6:2 FTS	IS	70	40 - 215		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C8-PFOA	IS	84	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C3-PFHxS	IS	76	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C9-PFNA	IS	75	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C2-8:2 FTS	IS	68	40 - 275		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C6-PFDA	IS	84	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
d3-MeFOSAA	IS	63	40 - 135		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C8-PFOS	IS	75	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
d5-EtFOSAA	IS	67	40 - 150		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C7-PFUnA	IS	87	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C2-PFDoA	IS	87	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C8-PFOSA	IS	72	40 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
13C2-PFTeDA	IS	76	20 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
d7-MeFOSE	IS	26	20 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
d3-MeFOSA	IS	13	10 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
d9-EtFOSE	IS	22	15 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		
d5-EtFOSA	IS	11	10 - 130		B25L004	02-Dec-25	8.48 g	03-Dec-25 12:23	1		

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-8(5-6)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-08	Column:	BEH C18
Project:	GMCOn-2-02-2	Date Collected:	21-Nov-25 13:11	Date Received:	01-Dec-25 09:32		
Location:	DP-8			% Solids:	74.9		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	0.0282	0.00842	0.0992	J	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFMPA	377-73-1	ND	0.0146	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
3:3 FTCA	356-02-5	ND	0.0350	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFPeA	2706-90-3	0.0347	0.0226	0.0992	I, J	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFMBA	863090-89-5	ND	0.0210	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
4:2 FTS	757124-72-4	ND	0.0299	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
NFDHA	151772-58-6	ND	0.0194	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFBS	375-73-5	0.0495	0.0120	0.0992	J	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFHxA	307-24-4	ND	0.0288	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
HFPO-DA	13252-13-6	ND	0.0171	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFEESA	113507-82-7	ND	0.0107	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
5:3 FTCA	914637-49-3	ND	0.0250	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFHpA	375-85-9	0.0209	0.0140	0.0992	J	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFPeS	2706-91-4	0.0333	0.0117	0.0992	J	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
ADONA	919005-14-4	ND	0.00680	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
6:2 FTS	27619-97-2	ND	0.0270	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFOA	335-67-1	0.0624	0.0278	0.198	J	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFHxS	355-46-4	0.341	0.0151	0.0992		B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
7:3 FTCA	812-70-4	ND	0.0328	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFNA	375-95-1	ND	0.0272	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFHpS	375-92-8	ND	0.0218	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
8:2 FTS	39108-34-4	ND	0.0361	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFDA	335-76-2	ND	0.0135	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
MeFOSAA	2355-31-9	ND	0.0386	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFOS	1763-23-1	0.303	0.0509	0.0992		B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
EtFOSAA	2991-50-6	ND	0.0323	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFUnA	2058-94-8	ND	0.0281	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
9Cl-PF3ONS	756426-58-1	ND	0.0209	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFNS	68259-12-1	ND	0.0279	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFDoA	307-55-1	ND	0.0139	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFDS	335-77-3	ND	0.0105	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFOSA	754-91-6	ND	0.0207	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFTTrDA	72629-94-8	ND	0.0178	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
11Cl-PF3OUdS	763051-92-9	ND	0.00674	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFTeDA	376-06-7	ND	0.0214	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
PFDoS	79780-39-5	ND	0.0150	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1
MeFOSE	24448-09-7	ND	0.0173	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1

Sample ID: DP-8(5-6)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-08		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 13:11	Date Received:	01-Dec-25 09:32				
Location:	DP-8						% Solids:	74.9			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0208	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
EtFOSE	1691-99-2	ND	0.0153	0.0992	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
EtFOSA	4151-50-2	ND	0.0202	0.198	U	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	95	10 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C5-PFPeA	IS	94	35 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C2-4:2 FTS	IS	100	40 - 165			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C3-PFBS	IS	95	40 - 135			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C5-PFHxA	IS	93	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C3-HFPO-DA	IS	90	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C4-PFHpA	IS	92	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C2-6:2 FTS	IS	81	40 - 215			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C8-PFOA	IS	103	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C3-PFHxS	IS	95	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C9-PFNA	IS	96	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C2-8:2 FTS	IS	74	40 - 275			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C6-PFDA	IS	89	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
d3-MeFOSAA	IS	76	40 - 135			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C8-PFOS	IS	93	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
d5-EtFOSAA	IS	83	40 - 150			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C7-PFUnA	IS	100	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C2-PFDoA	IS	98	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C8-PFOA	IS	84	40 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
13C2-PFTeDA	IS	80	20 - 130			B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
d7-MeFOSE	IS	11	20 - 130		Q	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
d3-MeFOSA	IS	5.39	10 - 130		Q	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
d9-EtFOSE	IS	11	15 - 130		Q	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	
d5-EtFOSA	IS	4.03	10 - 130		Q	B25L004	02-Dec-25	6.73 g	03-Dec-25 12:37	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-9(2-3)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-09	Column:	BEH C18
Project:	GMCon-2-02-2	Date Collected:	21-Nov-25 13:19	Date Received:	01-Dec-25 09:32		
Location:	DP-9			% Solids:	67.6		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	0.0245	0.00849	0.100	J	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFMPA	377-73-1	ND	0.0147	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
3:3 FTCA	356-02-5	ND	0.0353	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFPeA	2706-90-3	0.0400	0.0228	0.100	I, J	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFMBA	863090-89-5	ND	0.0212	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
4:2 FTS	757124-72-4	ND	0.0301	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
NFDHA	151772-58-6	ND	0.0196	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFBS	375-73-5	0.0422	0.0121	0.100	J	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFHxA	307-24-4	0.334	0.0290	0.100		B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
HFPO-DA	13252-13-6	ND	0.0172	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFEESA	113507-82-7	ND	0.0108	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
5:3 FTCA	914637-49-3	ND	0.0252	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFHpA	375-85-9	ND	0.0141	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFPeS	2706-91-4	0.0959	0.0118	0.100	J	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
ADONA	919005-14-4	ND	0.00685	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
6:2 FTS	27619-97-2	ND	0.0272	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFOA	335-67-1	0.0675	0.0280	0.200	J	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFHxS	355-46-4	1.21	0.0152	0.100		B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
7:3 FTCA	812-70-4	ND	0.0331	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFNA	375-95-1	ND	0.0274	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFHpS	375-92-8	ND	0.0220	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
8:2 FTS	39108-34-4	ND	0.0364	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFDA	335-76-2	ND	0.0136	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
MeFOSAA	2355-31-9	ND	0.0389	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFOS	1763-23-1	0.873	0.0513	0.100		B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
EtFOSAA	2991-50-6	ND	0.0325	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFUnA	2058-94-8	ND	0.0283	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
9Cl-PF3ONS	756426-58-1	ND	0.0211	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFNS	68259-12-1	ND	0.0281	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFDoA	307-55-1	ND	0.0140	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFDS	335-77-3	ND	0.0106	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFOSA	754-91-6	ND	0.0209	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFTTrDA	72629-94-8	ND	0.0179	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
11Cl-PF3OUdS	763051-92-9	ND	0.00679	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFTeDA	376-06-7	ND	0.0216	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
PFDoS	79780-39-5	ND	0.0151	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1
MeFOSE	24448-09-7	ND	0.0174	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1

Sample ID: DP-9(2-3)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-09		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 13:19	Date Received:	01-Dec-25 09:32				
Location:	DP-9						% Solids:	67.6			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0210	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
EtFOSE	1691-99-2	ND	0.0154	0.100	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
EtFOSA	4151-50-2	ND	0.0204	0.200	U	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	91	10 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C5-PFPeA	IS	96	35 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C2-4:2 FTS	IS	103	40 - 165			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C3-PFBS	IS	93	40 - 135			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C5-PFHxA	IS	100	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C3-HFPO-DA	IS	96	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C4-PFHpA	IS	90	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C2-6:2 FTS	IS	80	40 - 215			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C8-PFOA	IS	92	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C3-PFHxS	IS	92	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C9-PFNA	IS	90	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C2-8:2 FTS	IS	78	40 - 275			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C6-PFDA	IS	86	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
d3-MeFOSAA	IS	76	40 - 135			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C8-PFOS	IS	84	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
d5-EtFOSAA	IS	78	40 - 150			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C7-PFUnA	IS	96	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C2-PFDoA	IS	99	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C8-PFOSA	IS	78	40 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
13C2-PFTeDA	IS	76	20 - 130			B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
d7-MeFOSE	IS	15	20 - 130		Q	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
d3-MeFOSA	IS	7.21	10 - 130		Q	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
d9-EtFOSE	IS	13	15 - 130		Q	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	
d5-EtFOSA	IS	3.63	10 - 130		Q	B25L004	02-Dec-25	7.40 g	03-Dec-25 12:50	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.

**Sample ID: DP-10(3-4)**

**EPA Method 1633**

Client Data				Laboratory Data			
Name:	Columbia West Engineering, Inc.	Matrix:	Soil	Lab Sample:	2511227-10	Column:	BEH C18
Project:	GMCon-2-02-2	Date Collected:	21-Nov-25 13:21	Date Received:	01-Dec-25 09:32		
Location:	DP-10			% Solids:	75.4		

Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution
PFBA	375-22-4	0.0440	0.00926	0.109	J	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFMPA	377-73-1	ND	0.0160	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
3:3 FTCA	356-02-5	ND	0.0385	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFPeA	2706-90-3	0.0524	0.0249	0.109	I, J	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFMBA	863090-89-5	ND	0.0231	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
4:2 FTS	757124-72-4	ND	0.0328	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
NFDHA	151772-58-6	ND	0.0214	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFBS	375-73-5	0.0754	0.0132	0.109	J	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFHxA	307-24-4	0.624	0.0316	0.109		B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
HFPO-DA	13252-13-6	ND	0.0188	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFEESA	113507-82-7	ND	0.0118	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
5:3 FTCA	914637-49-3	ND	0.0275	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFHpA	375-85-9	0.0163	0.0154	0.109	J	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFPeS	2706-91-4	0.101	0.0129	0.109	J	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
ADONA	919005-14-4	ND	0.00747	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
6:2 FTS	27619-97-2	ND	0.0297	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFOA	335-67-1	0.0791	0.0305	0.218	J	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFHxS	355-46-4	1.41	0.0166	0.109		B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
7:3 FTCA	812-70-4	ND	0.0361	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFNA	375-95-1	ND	0.0299	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFHpS	375-92-8	ND	0.0240	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
8:2 FTS	39108-34-4	ND	0.0397	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFDA	335-76-2	ND	0.0148	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
MeFOSAA	2355-31-9	ND	0.0424	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFOS	1763-23-1	2.32	0.0559	0.109		B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
EtFOSAA	2991-50-6	ND	0.0354	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFUnA	2058-94-8	ND	0.0309	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
9Cl-PF3ONS	756426-58-1	ND	0.0230	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFNS	68259-12-1	ND	0.0306	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFDoA	307-55-1	ND	0.0153	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFDS	335-77-3	ND	0.0116	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFOSA	754-91-6	ND	0.0228	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFTTrDA	72629-94-8	ND	0.0195	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
11Cl-PF3OUdS	763051-92-9	ND	0.00740	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFTeDA	376-06-7	ND	0.0236	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
PFDoS	79780-39-5	ND	0.0165	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1
MeFOSE	24448-09-7	ND	0.0190	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1

Sample ID: DP-10(3-4)										EPA Method 1633	
Client Data					Laboratory Data						
Name:	Columbia West Engineering, Inc.			Matrix:	Soil	Lab Sample:	2511227-10		Column:	BEH C18	
Project:	GMCon-2-02-2			Date Collected:	21-Nov-25 13:21	Date Received:	01-Dec-25 09:32				
Location:	DP-10						% Solids:	75.4			
Analyte	CAS Number	Conc. (ng/g)	MDL	RL	Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
MeFOSA	31506-32-8	ND	0.0229	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
EtFOSE	1691-99-2	ND	0.0168	0.109	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
EtFOSA	4151-50-2	ND	0.0222	0.218	U	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
Labeled Standards	Type	% Recovery	Limits		Qualifiers	Batch	Extracted	Samp Size	Analyzed	Dilution	
13C4-PFBA	IS	72	10 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C5-PFPeA	IS	70	35 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C2-4:2 FTS	IS	79	40 - 165			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C3-PFBS	IS	73	40 - 135			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C5-PFHxA	IS	68	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C3-HFPO-DA	IS	66	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C4-PFHpA	IS	70	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C2-6:2 FTS	IS	64	40 - 215			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C8-PFOA	IS	72	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C3-PFHxS	IS	72	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C9-PFNA	IS	67	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C2-8:2 FTS	IS	59	40 - 275			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C6-PFDA	IS	73	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
d3-MeFOSAA	IS	61	40 - 135			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C8-PFOS	IS	71	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
d5-EtFOSAA	IS	65	40 - 150			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C7-PFUnA	IS	76	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C2-PFDoA	IS	78	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C8-PFOSA	IS	63	40 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
13C2-PFTeDA	IS	65	20 - 130			B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
d7-MeFOSE	IS	12	20 - 130		Q	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
d3-MeFOSA	IS	4.49	10 - 130		Q	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
d9-EtFOSE	IS	11	15 - 130		Q	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	
d5-EtFOSA	IS	2.7	10 - 130		Q	B25L004	02-Dec-25	6.08 g	03-Dec-25 13:04	1	

MDL - Method Detection Limit

RL - Reporting limit

The results are reported in dry weight.  
 The sample size is reported in wet weight.  
 Results reported to MDL.



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**Client:** Columbia West Engineering, Inc.  
**Project Number:** GMCon-2-02-2  
**Report To:** Colby Hunt

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## QUALIFIERS & NOTES

<b>Note</b>	<b>Definition</b>
I	1633: Ion ratio outside acceptance limits. All other methods: Chemical Interference
Q	1633: Standard Recovery outside acceptance limits. All other methods: Ion Ratio outside acceptance limits



## 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](http://Enthalpy.com/Resources/Accreditations)*



# CHAIN OF CUSTODY

PFAS Methods

For Laboratory Use Only

Work Order #: 2511227 Temp 11.1 °C  
Storage ID WR-1 Storage Secured  Yes  No

Project ID: GMCon-2-02-2 PO# GMCon-2-02-2 Sampler: Caroline Siegel (CBS)  
(name)

TAT Standard:  21 days  
(check one): Rush (surcharge may apply)  
 14 days  7 days Other 3

Invoice to: Name Caroline Siegel Company Columbia West Engineering Address 8800 SW Nimbus Ave Ste A City Beaverton State OR Phone # 503-926-3816

Relinquished by (printed name and signature) Caroline Siegel Date 11/25/25 Time 0900 Received by (printed name and signature) Jennifer Torres Date 12/01/25 Time 0932

SHIP TO: Enthalpy Analytical - EDH  
1104 Windfield Way  
El Dorado Hills, CA 95762  
(916) 673-1520

Method of Shipment: FedEx

Add Analysis(es) Requested

ATTN: \_\_\_\_\_

Tracking No.: 886392348190

Container(s)

Requirements:

- State-specific (list state) \_\_\_\_\_
- DoD QSM Compliant
- PFAS List Below (or attach compound list)

Sample ID	Date	Time	Location/ Sample Description	Add Analysis(es) Requested														
				Quantity	Type	Matrix	PFAS by Isotope Dilution	EPA 1631-Draft	EPA 1631-FINAL	DoD QSM Table B-15	Other	EPA 533	EPA 637.1	List of 29 (597.1 + 533)	PFAS by Isotope Dilution	Drinking Water		
DP-1 (2-3)	11/21	1025	DP-1	1	PJ	SO		✓										
DP-2 (5-6)	11/21	1043	DP-2	1				✓										
DP-3 (3-4)	11/21	1055	DP-3	1				✓										
DP-4 (29-30)	11/21	1148	DP-4	1				✓										
DP-5 (10-11)	11/21	1212	DP-5	1				✓										
DP-6 (3-4)	11/21	1251	DP-6	1				✓										
DP-7 (6-6)	11/21	1300	DP-7	1				✓										
DP-8 (5-6)	11/21	1311	DP-8	1				✓										
DP-9 (2-3)	11/21	1319	DP-9	1				✓										
DP-10 (3-4)	11/21	1321	DP-10	1				✓										

Other Instructions/ Comments

SEND DOCUMENTATION AND RESULTS TO:

Name: Caroline Siegel  
Company: Columbia West Engineering  
Address: 8800 SW Nimbus Ave Ste A  
City: Beaverton State: OR Zip: 97008  
Phone: 503-926-3816  
Email: CSiegel@columbiawest.com

Container Types: P= HDPE PJ= HDPE Jar  
PY= Polypropylene. O = Other \_\_\_\_\_

Bottle Preservation Type: TZ = Trizma \_\_\_\_\_ AA = Acetate \_\_\_\_\_

Matrix Types: AQ = Aqueous, DW = Drinking Water, EF = Effluent, SD = Sediment, T = Tissue  
SL = Sludge, SO = Soil, WW = Wastewater, O = Other \_\_\_\_\_



# APPENDIX C

## APPENDIX C LIMITATIONS AND IMPORTANT INFORMATION

### Purpose, Use, and Standard of Care

This document has been prepared in accordance with standard fundamental principles and practices of geotechnical engineering and/or environmental consulting, and in a manner consistent with the level of care and skill typical of currently practicing local engineers and consultants. This document has been prepared to meet the specific needs of specific individuals for the indicated site. It may not be adequate for use by other consultants, contractors, or engineers or if change in project ownership has occurred. It should not be used for any other reason than its stated purpose without prior consultation with Columbia West Engineering, Inc. (Columbia West). It is a unique document and not applicable for any other site or project. If site conditions are altered or if modifications to the project description or proposed plans are made after the date of this document, it may not be valid. Columbia West cannot accept responsibility for use of this document by other individuals for unauthorized purposes, or if problems occur resulting from changes in site conditions for which Columbia West was not aware or informed.

### Document Conclusions and Preliminary Nature

This document should be considered preliminary and summary in nature. The recommendations contained herein have been established by engineering interpretations of subsurface soil based on conditions observed during site exploration. The exploration and associated laboratory analysis of collected representative samples identifies soil conditions at specific discreet locations. It is assumed that these conditions are indicative of actual conditions throughout the site. However, soil conditions may differ between tested locations at different seasonal times of the year, either by natural causes or human activity. Distinction between soil types may be more abrupt or gradual than indicated on the exploration logs. This document is not intended to stand alone without understanding of concomitant instructions, correspondence, communication, or potential supplemental documents that may have been provided to the client.

Because this document is based on observations obtained at the time of exploration, its adequacy may be compromised with time. This is particularly relevant in the case of natural disasters, earthquakes, floods, or other significant events. Conclusions or interpretations may also be subject to revision if significant development or other manmade impacts occur within or in proximity to the site. Groundwater conditions, if presented in this document, reflect observed conditions at the time of investigation. These conditions may change annually, seasonally, or as a result of adjacent development.

### Additional Investigation and Construction Observation

Columbia West should be consulted prior to construction to assess whether additional investigation above and beyond that presented in this document is necessary. Even slight variations in soil or site conditions may produce impacts to the performance of structural facilities if not adequately addressed. This underscores the importance of diligent construction observation and testing to verify soil conditions do not differ materially or significantly from the interpreted conditions utilized for preparation of this document.

Therefore, this document contains several recommendations for field observation and testing by Columbia West personnel during construction activities. Actual subsurface conditions are more readily observed and discerned during the earthwork phase of construction when soil is exposed. Columbia West cannot accept responsibility for deviations from recommendations described in this document or future performance of structural facilities if another consultant is retained during the construction phase or Columbia West is not engaged to provide construction observation to the full extent recommended.

### **Collected Samples**

Uncontaminated samples of soil or rock collected in connection with this document will be retained for 30 days. Retention of such samples beyond 30 days will occur only at client's request and in return for payment of storage charges incurred. All contaminated or environmentally impacted materials or samples are the sole property of the client. Client maintains responsibility for proper disposal.

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Geotechnical and environmental engineering and consulting is much less exact than other scientific or engineering disciplines and relies heavily on experience, judgment, interpretation, and opinion often based on media (soil) that are variable, anisotropic, and non-homogenous. This often results in unrealistic expectations, unwarranted claims, and uninformed disputes against a geotechnical or environmental consultant. To reduce potential for these problems and assist relevant parties in better understanding of risk, liability, and responsibility, geotechnical and environmental documents often provide definitive statements or clauses defining and outlining consultant responsibility. The client is encouraged to read these statements carefully and request additional information from Columbia West if necessary.



# ABBREVIATIONS AND ACRONYMS

## ABBREVIATIONS AND ACRONYMS

6:2 FTS	fluorotelomer sulphonic acid 6:2
AOC	area of concern
B235	Building 235
BGS	below ground surface
BS	blank spike
BSD	blank spike duplicate
CMMP	Contaminated Media Management Plan
DEQ	Oregon Department of Environmental Quality
DoW	Department of War
ECSI	Environmental Cleanup Site Information
EPA	U.S. Environmental Protection Agency
ID	identification
IDW	investigation-derived waste
MS	matrix spike
MSD	matrix spike duplicate
NE	not established
PANG	Portland Air National Guard
PFAS	per- and polyfluoroalkyl substances
PFBA	perfluorobutanoic acid
PFBS	perfluorobutanesulfonic acid
PFDA	Perfluorodecanoic acid
PFDS	Perfluorodecanesulfonic acid
PFHpA	perfluoroheptanoic acid
PFHxA	perfluorohexanoic acid
PFHxS	perfluorohexanesulfonic acid
PFNA	perfluorononanoic acid
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
PFOSA	perfluorooctanesulfonamide
PFPeA	perfluoropentanoic acid
PFPeS	perfluoropentanesulfonic acid
PID	photoionization detector
QA	quality assurance
QC	quality control
RBC	risk-based concentration
RCRA	Resource Conservation and Recovery Act
RPD	relative percent difference
RSL	regional screening level
SL	screening level
THQ	toxic hazard quotient
µg/kg	micrograms per kilogram
VOC	volatile organic compound