



Spokane International Airport

9000 West Airport Drive, Suite 204 | Spokane, Washington 99224 | spokaneairports.net

April 6, 2026

Jeremy Schmidt, PE, Site Manager, Toxics Cleanup Program
Department of Ecology
4601 N. Monroe Street
Spokane, WA 99205

RE: Submittal of Ecology-Approved Initial PFAS Investigation Report
Enforcement Order DE 22584 (“EO”)

Dear Jeremy:

In response to your request on March 30, 2026 via email, attached is Spokane International Airport’s (SIA) Initial PFAS Investigation (IPI) Report Appendices, which was approved in its entirety by the Department of Ecology (Ecology) on March 19, 2026. In addition, SIA’s response to Ecology comment is included in this deliverable.

Thank you.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa Corcoran".

Lisa Corcoran
Chief Development Officer

cc via email: Spokane International Airport

Table 1
Response to Ecology Comments of 11 February 2026
Regarding the Draft Initial PFAS Investigation Report

Spokane International Airport
 Spokane, WA

ECOLOGY COMMENT NO.	DOCUMENT SECTION NO.	ECOLOGY COMMENT	RESPONSE
Signature page			
1	Signature page	In accordance with RCW 18.220.020, a person cannot present themselves as a hydrogeologist unless they are licensed as such by the state of Washington. Amelia Tallman needs to either add L.H.G. to their signature or revise their listed title if not a licensed hydrogeologist in Washington.	In accordance with RCW 18.220.020, Mr. David Rugh serves as the Licensed Hydrogeologist in Washington State for the work presented in this report, hence why only his seal is presented. Ms. Tallman serves as a Principal level scientist on the project.
Appendices			
2.	Appendices	Please move the result tables in Appendix B to the table section in the main report.	Tables from Appendix B are now Tables 4-1, 4-2, 4-3, and 4-4.
18.	Appendix F	“RTA” borings are listed in the boring logs, but not on the figures—is this supposed to be “RT” in the figures?	RT and RTA both refer to the Remtech area boreholes. All tables and figures have been reviewed for consistent nomenclature, resulting in changing ‘RT’ to ‘RTA’ in Figure 3-2A, Figure 7-5, and Table 3-2.
Main Body			
3.	Section 1.0	Please either provide an executive summary or remove the summary box. Its utility is unclear.	The label on the summary box will be revised to read “Executive Summary”
4.	Section 2.2.2, last paragraph	Remove the phrase “Although not present within the Site.” In accordance with MTCA, the site is defined by where contamination has come to be located. Literature suggests the Airport Paleochannel begins approximately at SIA’s property boundary and based on the data presented herein and otherwise available for review, Ecology has determined contamination from SIA has migrated off-property.	The term “Site” is clearly defined in Section 1 (page 1) of the report where it states: “The term “Site” as used in this report refers to the main operational area within the SIA property boundary as shown in Exhibit A of the Order and presented in figures as the “Primary Airport Area.” This term is not meant to define the facility boundary as defined by WAC 173-340-200, as that spatial designation is the subject of this ongoing investigation.” The usage of this term with the specific definition is consistent with multiple prior accepted submittals to Ecology. Specific to Section 2.2.2, the term “Site” has been replaced with “SIA property boundary.” The following sentence was also added: “One paleochannel is known to exist north of SIA.”

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5.	Section 3.2	The description of Monitoring Well EA-MW-6B indicates noncompliance with WAC 173-160. Please conduct maintenance on this well, and as necessary any other wells, to bring their condition into compliance with applicable regulations.	EA-MW-6B will be repaired in accordance with WAC 173-160. A statement regarding planned repairs has been added to the report.
6.	Section 3.5	In an appendix, please provide the IDW analytical results for characterization, chain of custody information for samples and waste disposal, and disposal documentation.	IDW analytical results and manifests are now provided as Appendix B. Documentation on disposal and destruction is not yet available from Clean Harbors.
7		Ecology appreciates the inclusion of the ten PFAS analytes listed in Ecology's CLARC tables in summary data and figures. As the investigation progresses, there may be a need to include other PFAS analytes in summary data and figures that serve as important fate and transport indicators regardless of whether they have regulatory thresholds.	Comment noted. As presented in the IPI Workplan (GSI 2024) and the Quarterly Sampling and Analysis Quality Assurance Plan (GSI 2025), 40 specific PFAS compounds will be evaluated to characterize via EPA Method 1633A to Characterize the site. These are provided in Table 4-2 and Table 4-4.
8.	Section 6.7	Remove statements that indicate Fairchild Air Force Base (FAFB) lies upgradient of the Site. The potentiometric maps included in this report do not support this claim.	Results from the Fairchild Air Force Base (FAFB) Phase 1 Remedial Investigation show high concentrations of PFAS in surface water and groundwater at the property boundary between FAFB and SIA. Potentiometric surfaces from the report show flow in an eastward direction supporting the statement that FAFB is contributing PFAS to SIA property.
9.	Section 6.7	Remove Section 6.7. While Ecology does not disagree that at some point "the concentrations of PFAS constituents at the Site should be evaluated within the context of the greater West Plains", that is beyond the scope of this document. In addition, this section is suggestive of an alternate source to groundwater without presenting data or hydrogeologic assessment in enough detail to justify its inclusion. Given the scope of this report (to present the on-property data from samples collected in January 2025), as well as the lack of data at this time to support the inclusion of FAFB data, this section should be removed. These theories can be reevaluated in the RI if and when there is sufficient data to suggest an alternate source and a plausible argument can be substantiated.	The text remains within the report and has been moved to Section 8.1. The accompanying Figure RTC-1 provides a view of the January 2025 groundwater PFOS results from the FAFB Phase I Remedial Investigation Report (EA Engineering 2025) presented together with the IPI results that were also collected in January 2025. Concentrations for PFOS in groundwater are shown for the unconsolidated and Wanapum units. The concentrations of PFAS at FAFB and the direct conveyance pathway via the No-Name Ditch to SIA property make FAFB data directly relevant to investigations at SIA and to regional concerns regarding PFAS. Conveyance of stormwater begins on the east side of the base via No-Name Ditch which flows eastward and ends at S. Craig Road (SIA property boundary) where the water is allowed to infiltration to groundwater within a flowage easement on SIA property. This conveyance pathway onto SIA property is well documented in previous reports to Ecology from SIA where the easement document was provided (Site Assessment Report; GSI Environmental 2024) and in reports issued by FAFB (EA Engineering 2025; see Section 7.6). Just as evaluating the potential for off-site PFAS migration is important, it is equally necessary to understand the pathways by which PFAS are entering SIA property and potentially the Site to support a

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			meaningful remedial investigation and the identification of appropriate and effective remedial options.
10.	Section 7.0	The text indicates “This section summarizes the observed lithology in soil borings and hand auger samples.” Ecology cannot locate the logs for the hand auger borings, which do not appear to be included with the rest of the boring logs. Please provide logs for all subsurface explorations.	Hand auger records are now included in Appendix F.
11.	Section 7.4.2	Please provide a reference for the claim that PFAS concentrations in soil were “generally within ranges reported for anthropogenic background”. Ecology notes several surface soil locations sampled as part of this effort had non-detect concentrations of PFAS, suggesting a lack of regional ambient impact.	Text has been revised; discussion of anthropogenic background has been moved to Section 8.1. The establishment of anthropogenic background concentrations for PFAS has been the subject of several regional, national and international studies. In many of these studies, statistics have been provided which show that PFAS analytical results in these background areas have a range of concentrations which span both above and below the reported detection limits. In addition, background levels in soils reflects have been shown to reflect largely long-range atmospheric transport (Adamson et al. 2026). The following papers provide analytical results for all PFAS evaluated in background soils: McIntosh et al. (2024) – PFAS background concentrations in surface soils of Massachusetts and New England. In this study, the detection frequencies ranged from 100% for PFOA and PFOS to 1-6% for other PFAS with a range of frequencies between 29-95%. Zhu et al. (2022) similarly provided statistics for a state-wide evaluation of PFAS soil background. In 66 surface soil samples, the detection frequencies ranged from 100% for PFOS to 1.5% for PFTrDA with several PFAS (e.g., PFOA, PFDA, PFBS) between 50%-92% detection frequencies. In a background study in Sweden, 16 of 28 PFAS analyzed were detected at varying detection frequencies (Sorengard et al. 2022). Of those 16 PFAS, only five (PFOS, PFBS, PFUnDA, PFHxS, and PFTrDA) were detected at a frequency greater than 50%. These frequencies for anthropogenic background below 100% are also supported in a meta-analysis of international studies for background PFAS evaluations (Brusseau et al. 2020).
12.	Section 7.4.6	Precipitation is identified as a potential non-point source in the land treatment area. How does this connect with other locations where soil concentrations are non-detect? Ecology notes several surface soil locations sampled as part of this effort had non-detect	Precipitation serves as general non-point source. It is well established that precipitation is transport pathway for PFAS (Adamson et al. 2026). The study authors also noted that there are many factors influencing long range deposition of PFAS in soils and soil properties can influence retention time and transport of PFAS in surface soils. Media characteristics related to the attenuation and retention of PFAS is one of the explanations for observations of PFAS in

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		concentrations of PFAS, suggesting a lack of regional ambient impact.	soils that are not uniformly distributed as evidenced by “varying detection frequencies found in literature studies”. This reference has been added to the report. The presentation given by Dr. Pritchard on 06 November 2025 as part of the West Plains Fate + Transport Study entitled, “Presentation of Final Results” serves as a local example where precipitation and snow data from the Rambo Rd. NOAA station contained detectable levels of PFAS compounds.
13.	Section 7.5	Remove Section 7.5. In addition to Ecology’s justification presented in Comment 9, the comparison of soil concentrations at FAFB to those at SIA lacks any relevance whatsoever. In addition, continuous claims of impact by FAFB through No Name Ditch lack confirmation, primarily because SIA has repeatedly denied access to FAFB to delineate their impacts.	Evaluating PFAS stemming from well-documented AFFF source areas at FAFB with established pathways to groundwater within the region is relevant information both in the context of this study and to the wider region. The text has been revised accordingly.
14.	Section 8.0	Remove the following sentence: “A Remedial Investigation is required to (a) evaluate the nature and extent of PFAS in the identified potential and known areas of concern at SIA, (b) support risk assessments, and (c) allow evaluation of remedial alternatives during the Feasibility Study.” This sentence is unnecessary and the description of the scope of the remedial investigation excludes contaminants other than PFAS and does not align with purpose of an RI identified in WAC 173-340-350(1).	Sentence revised as follows, in accordance with WAC 173-340-350(1): <i>Remedial Investigation is required to (a) evaluate the nature and extent of <u>hazardous substances including</u> PFAS in the identified potential and known areas of concern at SIA, (b) support risk assessments, and (c) allow evaluation of remedial alternatives during the Feasibility Study.</i>
15.	Section 8.0 (Groundwater) and Figures 6-1 through 6-4	Please review and revise the potentiometric contours. The generally higher elevation of bedrock through the center of the airport property suggests that the groundwater “valley” portrayed on the potentiometric maps actually ‘Vs’ to the northeast, not to the southwest, and is more likely a groundwater “hill”. This would indicate that the movement of groundwater is away from the center of the runway area not toward it, as is shown on the figures.	The potentiometric surfaces were derived using multiple lines of information and are grounded in relevant Site data. The depth of unsaturated soil observed in borings completed in January 2025 along with ground surface elevation was used to constrain the upper elevation of the interpreted potentiometric surface. Soil borings completed near the Current Fire House (CFH-001, CFH-002, and CFH-003) have depth to water of 14 ft, 12.5 ft, and 9.5 ft respectively. These are elevations of 2340, 2340.5, and 2345.5 respectively. The series from the FAA Inspection Area (FIT-001 and FIT-002) have depth to water of 7 ft and 15.5 ft, respectively (elevations of 2362 and 2353.5). Near the Historical Fire House, boring HFH-001 had depth to water of 7 ft, an elevation of 2339. The location of these soil borings and areas of low topography are presented in attached Figure RTC-2. The location of soil borings is also now included on Figures 6-1 through 6-4 to improve

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			clarity. The interpolation of groundwater elevations as suggested in this comment would result in an unconfined potentiometric surface located above ground surface through low lying areas.
16.	Section 8.0, last sentence	Please provide a reference for the claim that PFAS concentrations in soil were “in the range of observed ambient concentrations observed in studies from rural areas”. Ecology notes several surface soil locations sampled as part of this effort had non-detect concentrations of PFAS, suggesting a lack of regional ambient impact.	See responses to Comments 11 and 12.
17		GCF-MW-5 appears to be screened in the unconsolidated material but is listed as a Wanapum well in the figures. Please amend and check to make sure none of the other wells are improperly categorized.	GCF-MW-5 is screened across the interface of the unconsolidated material and basalt, Correction made to Table 3-1, Figures 6-2 6-4, and 6-5 to reflect categorization as unconsolidated.
19.	Section 8.1, fourth bullet	Ecology understands the intent of this document is to report the data collected as part of the IPI effort. However, Ecology has determined that the dataset established to date definitively indicates off-property impacts to regional groundwater from the SIA property. Ecology’s scope of assessed information includes this full IPI dataset, historical on-property data, well-established and published characteristics of regional geology and hydrogeology, very low to non-detect concentrations of PFAS in groundwater upgradient of SIA’s property, high concentrations of PFAS in groundwater immediately downgradient of SIA’s property, and documented PFAS impacts to domestic drinking water wells further downgradient from SIA’s property.	<p>Assuming the definition of “regional contamination” extends to the spatial extent of the Emergency Interim Action boundary issued by Ecology, the Draft IPI Report and published information on regional geology and hydrogeology does not substantiate the delineation of that area. The Emergency Interim Action boundary includes areas cross-gradient from the Primary Airport Area and ignores the three-dimensional groundwater flow system. For example, per Ecology’s records, residential wells northwest of where S. Russell Rd meets W. Greenwood Rd have reported depths within the Grande Ronde and represent some of the highest concentrations of PFAS for private residences (per data provided by Ecology). The flow field for the Grande Ronde is well established as moving west by northwest. A pathway from SIA to vertically push PFAS in shallow groundwater into the Grande Ronde then move that PFAS due north runs contrary to established regional hydrogeology and current understanding of groundwater flow and pathways.</p> <p>What is known about PFAS impacted groundwater at SIA has shown that shallow groundwater located in unconsolidated sediments and the Wanapum basalt is moving in the northeast direction across the Site. Vertical migration of PFAS at SIA into the deeper Grande Ronde basalt aquifer has not been established nor has transport in a due north direction. No formal acknowledgment or analysis of hydrostratigraphy or site-specific data from Ecology has been presented to support this determination.</p> <p>Ecology also states that there are low to very low concentrations of PFAS upgradient of SIA, however, well LA-MW-8, which is designated as an upgradient monitoring well for the Land</p>

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			Treatment Area (Valley 2021, Land Treatment Site Management Plan) had PFOS concentrations of 17 and 14 ng/L in March 2024 and January 2025, respectively. This well also had concentrations of PFOA at 6.1 and 13 ng/L in March 2024 and January 2025, respectively. In the Land Treatment area, the concentrations of PFAS at this upgradient location (LA-MW-8) was greater than concentrations observed in the downgradient monitoring wells highlighting the potential for a PFAS source that is migrating into the Land Treatment Area. Furthermore, portions of the areas impacted by FAFB PFAS use may be located upgradient of the Site in discrete aquifer units.
20.	Section 8.1, fifth bullet	Currently published characteristics of regional geology and hydrogeology, along with the potentiometric data presented in this report, suggest FAFB is not located upgradient of SIA.	Report revised to state that “portions of the FAFB Site may be located upgradient of the SIA Site in discrete aquifer units”
21.	Section 8.1, sixth bullet	The data collected as part of the IPI as well as historical groundwater data show non-detect to very low PFAS concentrations in upgradient wells, an indication of a very low potential for impact from upgradient sources.	Monitoring wells, LA-MW-8 and LA-MW-12 are designated as upgradient monitoring wells for the Land Treatment Area (Valley 2021, Land Treatment Site Management Plan). In the case of LA-MW-8, the concentrations of PFOS and PFOA were greater than concentrations observed in the downgradient monitoring wells suggestive of a PFAS source that is migrating into the Land Treatment Area.
22.	Section 8.1	The list of identified data gaps is not comprehensive and would not achieve the remedial requirement of delineating the magnitude and extent of contamination. Ecology notes that many additional data gaps exist and will be identified in the RI Work Plan. Prior to the development of the RI Work Plan, Ecology and the PLPs will convene a major milestone meeting to discuss work necessary to address a comprehensive list of existing data gaps to guide the RI.	Comment noted. Data gaps acknowledged individually in Section 8.1 are based on the current understanding of the Site and limited data available from the Initial PFAS Investigation do not “delineate the magnitude and extent of contamination”, on- or off- the Site.

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**DRAFT FOR AGENCY REVIEW
SUBJECT TO CHANGE**



LEGEND

- Primary Airport Area
- SIA Property Boundary
- Fairchild Air Force Base Property

Regional PFOS Concentrations

Data Source

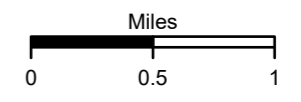
- SIA IPI
- FAFB Phase I RI

PFOS (ng/L)

- < 4
- ≥ 4.0 - < 20
- ≥ 20 - < 100
- ≥ 100 - < 1,000
- ≥ 1,000 - < 10,000
- ≥ 10,000 - < 100,000
- ≥ 100,000 (Max Value: 210,000 ng/L)

Notes

- 1) SIA - Spokane International Airport
- 2) PFOS - Perfluorooctanesulfonic acid
- 3) SIA IPI - Spokane International Airport Initial PFAS Investigation
- 4) FAFB Phase I RI - Fairchild Air Force Base Phase I Remedial Investigation data includes groundwater sampled from monitoring wells and groundwater grabs collected from soil borings.
- 5) Base map imagery provided by Esri ArcGIS Online, 2026.



Projected Coordinate System
Datum: NAD 83
State Plane Washington North
Units: Feet

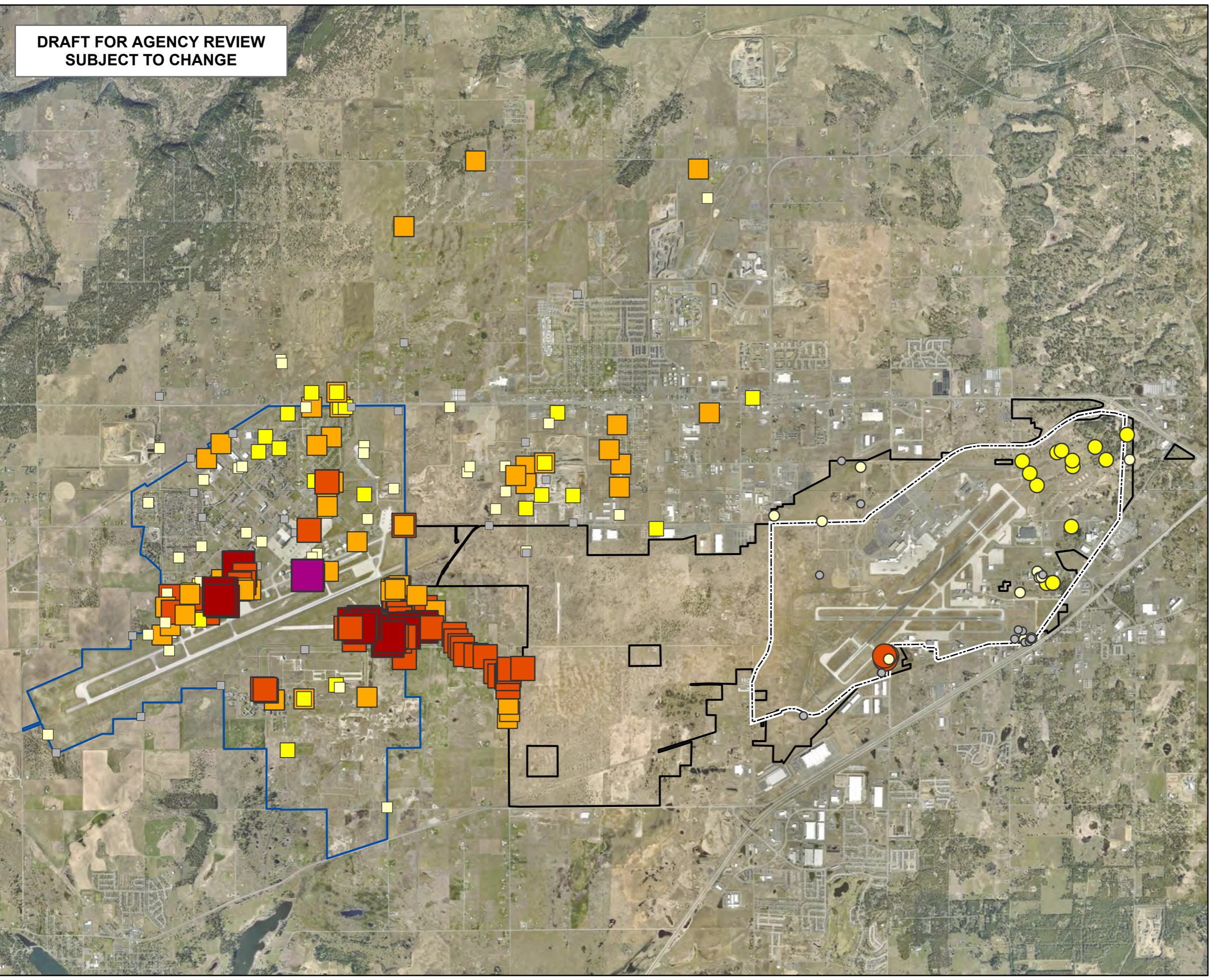


**Regional PFOS Groundwater Concentrations
Unconsolidated and Wanapum Lithologies**

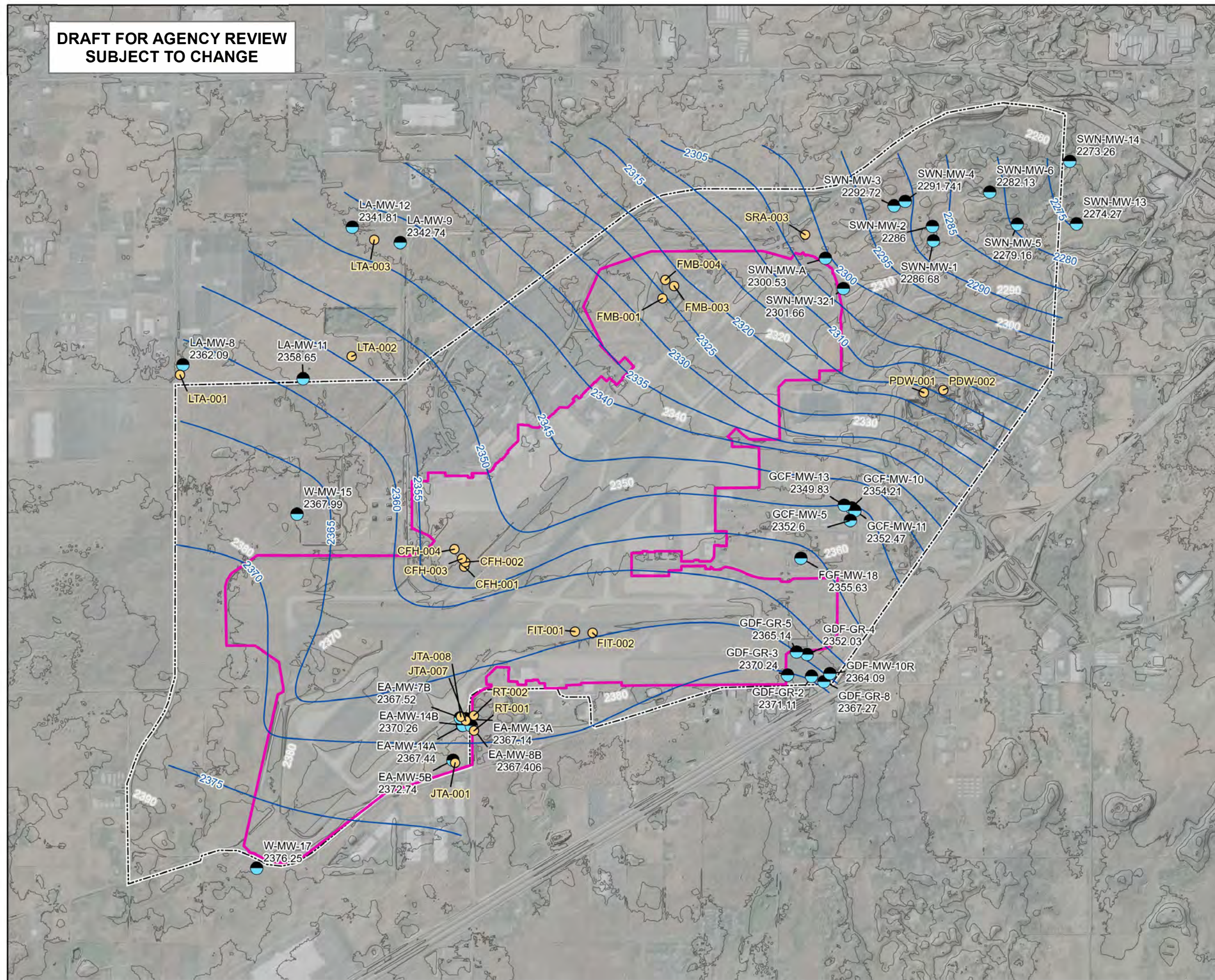
Spokane International Airport
Initial PFAS Investigation Report
Spokane, Washington

GSI job No.	6892	Drawn By:	EKS
Issued:	27-Feb-2026	Chk'd By:	DRAFT
Map ID:	IPIR_FAFB	App'd By:	DRAFT

FIGURE RTC-1



**DRAFT FOR AGENCY REVIEW
SUBJECT TO CHANGE**

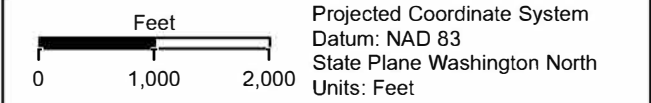


LEGEND

- Wells - Unconsolidated Formation
####.# Groundwater Elevation (ft amsl)
- Soil Boring Locations
- 5 Foot Groundwater Elevation Contours - Unconsolidated Formation
- AOA Fenceline
- Primary Airport Area

Notes

1. AOA - Air Operations Area
2. Aerial imagery provided by Esri ArcGIS Online, 2023.
3. Potentiometric contours consider ground surface elevation and depth to water encountered in soil boreholes during the January 2025 IPI event.



**Site Potentiometric Surface:
Unconsolidated - January 2025**

Initial PFAS Investigation Report
Spokane International Airport
Spokane, Washington

GSI job No.	6892	Drawn By:	NK
Issued:	15-Jan-2026	Chk'd By:	AT
Map ID:	SIAWA_PAA	App'd By:	DRAFT

FIGURE RTC-2



INITIAL PFAS INVESTIGATION REPORT

SPOKANE INTERNATIONAL AIRPORT

Spokane, WA

Facility Site ID: 6332493; Cleanup Site ID: 16774

Prepared for:



Spokane
International Airport

SPOKANE INTERNATIONAL AIRPORT

9000 W. Airport Drive, Suite 204
Spokane, Washington 99224

Prepared by:

GSI ENVIRONMENTAL INC.

1115 West Bay Drive NW, Ste. 202
Olympia, WA 98502
www.gsienv.com

Job No.: 6892

Issued: 13 March 2026

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDICES

- Appendix A. Field and Chains of Custody Forms
- Appendix B. Investigation Derived Waste
- Appendix C. Data Usability Summary
- Appendix D. Analytical Laboratory Reports
- Appendix E. Monitoring Well Survey Report
- Appendix F. Lithologic Logs of Soil Borings

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX A

Field and Chain of Custody Forms

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX A-1

Groundwater- Low Flow Field Forms

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT SIA PFAS SPOKANE
 LOCATION SPOKANE
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. ~~0229900~~ 0229900
 PROJECT MGR. B. GREER
 FIELD REP. D. PED
 SAMPLING DATE 1/6/2025

Sampling Data:

Well ID: LA-MW-9 Well Depth: _____ ft Initial Depth To Water: 11.95 ft Purging Device: PERI
 Start time: 13:55 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 14:20 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0	11.94		300	0	12.1	7.43	226.0	6.20	3.15	62.0	
5	11.94		300	0.6	9.8	6.81	227.8	5.89	2.20	72.0	
10	11.94		300	1.2	9.8	6.75	225.8	5.87	2.68	78.5	
15	11.94		300	1.8	9.9	6.74	226.0	5.77	1.44	80.8	
20	11.94		300	2.1	9.9	6.72	226.9	5.75	0.02	83.7	
											Sample ID:
											LA-MW-9-N-01062025
											Sample time @
											14:20.

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT SIA PFAS SUPPORT
 LOCATION SPOKANE
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800-002-01
 PROJECT MGR. B. GREER
 FIELD REP. S. JOHNSON (GSI)
 SAMPLING DATE 1/6/25

Sampling Data:

Well ID: W-MW-17 Well Depth: _____ ft Initial Depth To Water: 17.52 ft Purging Device: PERI
 Start time: 15:40 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 16:25 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPPE

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- %	pH +/-	Conductivity (us/cm) +/- %	Dissolved Oxygen (mg/L) +/- %	Turbidity (NTU) < NTU	ORP/eH (mv) +/- mv	Comments
0	17.72	-	350	0	11.2	7.12	894	9.11	3.54	113.2	
5	17.73	-	350	0.5	11.1	7.11	897	9.55	4.40	115.7	
10	17.73	-	350	1	11.2	7.11	898	9.35	8.32	117.6	
15	17.74	-	350	1.7	11.3	7.11	897	9.43	3.29	118.7	
20	17.74	-	350	2.2	11.4	7.12	897	9.22	6.13	120.1	
25	17.74	-	350	2.8	11.2	7.11	898	9.17	3.86	121.9	
											SAMPLE ID: W-MW-17-N-010625
											SAMPLE TIME: 16:15

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT: SIA PFAS SUPPORT
 LOCATION: SEKANE
 CLIENT: SIA
 CONTRACTOR: _____

H&A FILE NO.: 0209800-002-01
 PROJECT MGR.: B. GREER
 FIELD REP.: L. PEDEN, S. FISHER
 SAMPLING DATE: 1/6/2025

Sampling Data:

Well ID: LA-MW-9 Well Depth: _____ ft Initial Depth To Water: 6.57 ft Purging Device: PERI
 Start time: 12:00 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 12:50 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 12%	Turbidity (NTU) < 50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	6.58		250	0	6.5	6.56	1136	0.87	16.6	93.2	H ₂ S odor
5	6.56		250	0.5	6.3	6.93	1146	0.56	4.63	42.1	↓
10	6.58		250	0.9	6.2	7.04	1154	0.35	0.02	12.9	
15	6.57		250	1.4	6.1	7.07	1161	0.29	0.02	3.6	LESSENER
20	6.57		250	1.9	6.0	7.10	1160	0.26	0.30	-6.9	
25	6.57		250	2.5	6.2	7.12	1159	0.25	1.62	-17.0	
30	6.57		250	3.0	6.1	7.12	1162	0.16	0.02	-23.1	
35	6.57		250	3.4	6.1	7.13	1163	0.18	0.02	-27.0	
											Sample Time @ 12:40
											Sample ID: LA-MW-9-N-01082025

PROJECT SIA PFAS SUPPORT
 LOCATION SPOKANE
 CLIENT SIA
 CONTRACTOR -

H&A FILE NO. 0209800
 PROJECT MGR. BREYAN GREEN
 FIELD REP. L. PEDEN, S. FISHER
 SAMPLING DATE 1/6/25

Sampling Data:

Well ID: 9:30 LA-Mw-8 Well Depth: _____ ft Initial Depth To Water: 11.38 ft Purging Device: PERI
 Start time: 9:30 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 10:10 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time min (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 1%	Turbidity (NTU) ≤ 50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	11.40		200	0	10.6	7.17	361.8	6.99	6.30	113.6	No SHEEN, No odor
5	11.38		200	0.4	10.4	7.07	358.7	7.30	1.75	116.7	
10	11.39		200	1.0	10.4	7.01	361.1	7.22	2.87	121.0	
15	11.38		200	1.4	10.4	7.07	363.6	7.32	3.49	123.7	
20	11.38		200	1.9	10.3	7.01	362.8	7.54	0.74	125.2	
25	11.38		200	2.2	10.2	7.02	362.7	7.48	3.71	127.0	

Sample ID:
LA-MW-8-N-01062025

Sample Time @ 10:05

PROJECT SIA PFAS SUPPORT
 LOCATION SPOKAN E
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800
 PROJECT MGR. B. GREER
 FIELD REP. V. PEDEN S. FISHER
 SAMPLING DATE 1/6/2025

Sampling Data:

Well ID: LA-MW-10 Well Depth: _____ ft Initial Depth To Water: 10.23 ft Purging Device: PER1
 Start time: 10:45 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 11:15 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDP

Elapsed Time (24-hour) (hr)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0	10.49		250	0	9.8	7.55	242.5	7.97	3.48	111.2	No SHEEN, NO OIL OR
5	10.47		250	0.5	10.2	7.39	252.0	6.47	3.56	114.6	
10	10.48		250	1.0	10.2	7.26	255.8	6.02	0.16	120.1	
15	10.49		250	1.7	10.3	7.20	263.1	5.34	1.54	122.9	
20	10.49		250	2.4	10.4	7.21	263.1	5.48	1.75	122.8	
25	10.49		250	3.1	10.3	7.20	263.6	5.54	1.66	124.7	
											Sample ID: LA-MW-10-N-01062025
											Sample Time 11:15
											* SILICONE TUBING DISLODGED DURING SAMPLING

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT SIA
 LOCATION SPOKANE
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800
 PROJECT MGR. B. GREER
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/7/25

Sampling Data:

Well ID: W-MW-15 Well Depth: _____ ft Initial Depth To Water: 10.23 ft Purging Device: PERI
 Start time: 8:56 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 9:40 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	ORP/eH (mv)	Comments
0	-	-	300	0	-	-	-	-	OVER	-	DARK BROWN, HIGHLY TURBID WATER
5	10.96	-	300	0.7	-	-	-	-	313	-	
10	11.02	-	300	1.1	9.6	7.46	333.0	10.70	496	168.9	
15	10.92	-	200	1.3	9.5	7.35	329.4	9.26	185	163.3	RAISE TUBING 2 FEET
20	10.88	-	200	1.8	9.5	7.29	305.6	10.83	69.0	158.5	
25	10.89	-	200	2.1	9.7	7.29	298.8	10.81	34.9	154.9	
30	10.91	-	200	2.5	9.7	7.27	288.3	10.86	24.7	154.1	
35	10.92	-	200	2.9	9.7	7.27	280.5	10.47	35.2	153.4	
											SAMPLE ID:
											W-MW-15-N-010725
											SAMPLE TIME:
											9:35

Durable et résistant à l'humidité
 Utilisez le Gabarit Avery 5522

PROJECT SIA
 LOCATION Spokane International Airport
 CLIENT CSI
 CONTRACTOR _____

H&A FILE NO. 0209800
 PROJECT MGR. Bryon Green
 FIELD REP. Zack Castilla
 SAMPLING DATE 1/7/2025

Sampling Data:

Well ID: EA-MW-14A Well Depth: _____ ft Initial Depth To Water: 17.35 ft Purging Device: PM
 Start time: 12:03 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 12:35 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH (+/- 0.1)	Conductivity (us/cm) (+/- 1%)	Dissolved Oxygen (mg/L) (+/- 1%)	Turbidity (NTU) (< 50 NTU)	ORP/eH (mv) (+/- 10 mv)	Comments
1203	18.42	3/4 speed	500ml/min	0	9.4	7.74	190.4	6.06	2.0A	122.2	
1204	19.16	1/2 speed	150	0.1	11.1	7.53	190.7	5.44	6.08	125.5	
1213	19.66		100	0.35	10.3	7.47	190.6	5.10	5.73	131.2	
1218	19.85		100	0.5	10.1	7.40	190.4	5.26	6.70	135.3	No odor, no sheen, no odor
1223	19.99		100	0.75	9.2	7.35	199.6	4.98	4.15	141.1	
1228	20.07		100	1	9.3	7.39	199.2	5.18	2.16	140.2	
1233	20.13		100	1.20	9.5	7.46	190.5	5.02	3.50	137.5	
											SAMPLE ID:
											EA-MW-14A-N-01072025
											SAMPLE TIME:
											12:35

PROJECT SIA
 LOCATION S Polare International Airport
 CLIENT GSI
 CONTRACTOR _____

H&A FILE NO. 0709800
 PROJECT MGR. Brynn Groer
 FIELD REP. Zach Castillo J. S.
 SAMPLING DATE 1/7/2025

Sampling Data:

Well ID: EA-MW-14B Well Depth: _____ ft Initial Depth To Water: 14.36 ft Purging Device: Perf
 Start time: 1310 Depth To Top Of Screen: _____ ft • Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 1345 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ ft Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- 1.0 %	pH +/- 0.1	Conductivity (us/cm) +/- 1.0 %	Dissolved Oxygen (mg/L) +/- 1.0 %	Turbidity (NTU) < 5 NTU	ORP/eH (mv) +/- 10 mv	Comments
1312	14.39	-	400	0	12.2	7.10	914	8.00	3.65	146.7	
1317	14.38	-	400	1	12.3	7.04	935	7.45	15.1	151.8	
1322	14.38	-	400	1.2	12.3	7.02	932	7.39	6.22	155.4	
1327	14.38	-	400	1.6	12.4	7.01	930	8.19	7.81	158.5	
1332	14.38	-	400	2.2	12.4	7.01	924	8.48	2.43	160.9	
1337	14.38	-	400	3.0	12.4	7.01	922	8.56	5.92	163.8	
											Sample ID: EA-MW-14B-N-01072025
											Sample Time: 1340

Durable et résistant à l'humidité
Utilisez le Gabarit Aveyr SS22

PROJECT SIA
 LOCATION Spokane International Airport
 CLIENT BSI
 CONTRACTOR _____

H&A FILE NO. 0209800
 PROJECT MGR. Bryan Green
 FIELD REP. Zack Castillo de Siles
 SAMPLING DATE 1/7/2025

Sampling Data:

Well ID: EA-MW-13A Well Depth: _____ ft Initial Depth To Water: 16.09 ft Purging Device: PERI
 Start time: 14:02 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 14:47 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ ft Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) <small>+/- 1.0%</small>	pH <small>+/- 0.1</small>	Conductivity (us/cm) <small>+/- 1%</small>	Dissolved Oxygen (mg/L) <small>+/- 10%</small>	Turbidity (NTU) <small>< 5.0 NTU</small>	ORP/eH (mv) <small>+/- 10 mv</small>	Comments
14:05	16.45	-	150	0.1	11.5	7.66	191.2	0.66	55.3	126.9	
14:10	16.36	-	150	0.3	11.7	7.42	187.7	0.41	63.2	129.6	
14:15	16.37	-	150	0.5	11.6	7.36	186.5	0.51	55.1	130.6	
14:20	16.38	-	150	0.75	11.6	7.36	184.7	0.73	51.4	130.0	
14:25	16.38	-	150	1.0	11.6	7.36	182.2	1.05	48.7	129.2	
14:30	16.38	-	150	1.25	11.7	7.36	181.0	1.28	44.2	129.0	
14:35	16.39	-	150	1.75	11.8	7.37	180.0	1.59	42.5	129.7	
14:40	16.39	-	150	2.0	11.7	7.36	179.5	1.54	36.9	130.0	
14:45	16.38	-	150	2.25	11.7	7.35	178.9	1.59	37.6	132.6	
											Sample ID: EA-MW-13A-N-01072025
											Sample Time: 1450
											Duplicate ID: EA-MW-13A-FD-01072025
											Duplicate Time: 1520

PROJECT: SIA PEAS SUPPORT
 LOCATION: SPOKANE
 CLIENT: SIA
 CONTRACTOR: _____

H&A FILE NO. 0209800-001
 PROJECT MGR. B. GREER
 FIELD REP. L. PEDEN
 SAMPLING DATE 1/8/25

Sampling Data:
 Well ID: _____ Well Depth: 94.64 ft Initial Depth To Water: 29.97 ft Purging Device: BLADDER
 Start time: 12:29 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: _____ Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH ±.02	Conductivity (us/cm) ±.10%	Dissolved Oxygen (mg/L) ±.10%	Turbidity (NTU) < 50NTU	ORP/eH (mv) ±.12 mv	Comments
0	<u>25.97</u>	<u>---</u>	<u>150</u>	<u>0</u>	<u>11.0</u>	<u>7.77</u>	<u>126.1</u>	<u>3.12</u>	<u>15.6</u>	<u>52.6</u>	<u>No odor or SHEEN</u>
5	<u>26.12</u>	<u>-</u>	<u>150</u>	<u>0.5</u>	<u>11.1</u>	<u>7.59</u>	<u>195.8</u>	<u>4.17</u>	<u>15.6</u>	<u>157.9</u>	
10	<u>26.09</u>	<u>---</u>	<u>150</u>	<u>0.9</u>	<u>11.1</u>	<u>7.52</u>	<u>191.5</u>	<u>4.78</u>	<u>10.8</u>	<u>162.3</u>	
15	<u>26.25</u>	<u>---</u>	<u>150</u>	<u>1.3</u>	<u>11.0</u>	<u>7.50</u>	<u>189.3</u>	<u>5.00</u>	<u>9.39</u>	<u>161.8</u>	
20	<u>26.13</u>	<u>---</u>	<u>150</u>	<u>1.9</u>	<u>11.0</u>	<u>7.48</u>	<u>187.5</u>	<u>5.17</u>	<u>6.63</u>	<u>160.2</u>	
25	<u>26.03</u>	<u>---</u>	<u>150</u>	<u>2.4</u>	<u>10.9</u>	<u>7.45</u>	<u>185.5</u>	<u>5.37</u>	<u>5.28</u>	<u>161.3</u>	

E.A. MW-15A-N-01082025

PROJECT SIA
 LOCATION SPokane
 CLIENT _____
 CONTRACTOR _____

 H&A FILE NO. _____
 PROJECT MGR. B. GREER
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/8/25
Sampling Data:

 Well ID: EA-MW-13B Well Depth: _____ ft Initial Depth To Water: 13.17 ft Purging Device: PERI
 Start time: 10:00 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: NIS ft Tubing Present In Well: Yes No
 Finish Time: 10:40 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) < 50 NTU	ORP/eH (mv) +/- 10 mv	Comments
10:00	13.24	-	400	0	12.2	6.88	722	5.75	7.28	126.5	*UNABLE TO REACH OLD DEDICATED TUBING, INSTALLED NEW TUBING AT 15 ft bloc *ALSO THERE IS NO J-PLUG. Well IS CAPPED WITH A GLOVE OVER THE CASING
10:05	13.25	-	400	0.3	12.4	6.08	727	6.08	2.57	133.7	
10:10	13.25	-	400	0.9	12.5	6.75	708	6.42	1.55	139.9	
10:15	13.26	-	400	1.4	12.5	6.67	688	6.69	1.43	147.2	
10:20	13.26	-	400	2	12.5	6.74	680	6.72	1.51	152.2	
10:25	13.27	-	400	2.8	12.6	6.75	673	6.81	1.20	157.4	
10:30	13.27	-	400	3.5	12.6	6.75	666	6.90	0.64	161.7	
											SAMPLE ID: EA-MW-13B-N-01082025
											SAMPLE TIME: 10:35

PROJECT SIA
 LOCATION SIA
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209807
 PROJECT MGR. Brian Green
 FIELD REP. Luke Peden
 SAMPLING DATE 1/9/25

Sampling Data:

Well ID: SWN-MW-A Well Depth: 18.19 ft Initial Depth To Water: 6.58 ft Purging Device: Peri
 Start time: 9:30 Depth To Top Of Screen: 5 ft Depth Of Pump Intake: ~10 ft Tubing Present In Well: Yes No
 Finish Time: 10:15 Depth To Bottom Of Screen: 15 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- 0.1	pH +/- 0.1	Conductivity (us/cm) +/- 1.0%	Dissolved Oxygen (mg/L) +/- 1.0%	Turbidity (NTU) < 50 NTU	ORP/eH (mv) +/- 0.1 mv	Comments
0	6.60	—	160	0	7.5	6.66	8390	1.10	1	94.3	No flow or screen
5	6.61	—	160	0.5	7.3	6.61	10900	1.87	1	88.7	
10	6.61	—	160	0.9	7.1	6.57	12077	1.27	3.89	87.0	
15	6.61	—	160	1.4	7.4	6.55	12397	1.16	3.51	86.4	
20	6.61	—	160	1.9	7.5	6.53	12554	1.22	3.41	86.2	
25	6.61	—	160	2.4	7.5	6.52	12628	0.90	2.04	87.3	
30	6.61	—	160	2.9	7.6	6.51	12690	0.82	2.92	87.8	
35	6.61	—	160	3.4	7.6	6.50	12724	0.78	3.01	88.2	
40	6.61	—	160	3.9	7.6	6.50	12761	0.73	1.01	88.3	
											Sample ID SWN-MW-A-N-21092715

PROJECT SIA
 LOCATION SIA
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800
 PROJECT MGR. Bryan Greer
 FIELD REP. Luke Pedon
 SAMPLING DATE 1/9/25

Sampling Data:

Well ID: SWN-MW-3 Well Depth: 10.43 ft Initial Depth To Water: 3.44 ft Purging Device: Per.
 Start time: 11:40 Depth To Top Of Screen: 6.5 ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 12:15 Depth To Bottom Of Screen: 8.4 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- 1.0%	pH +/- 0.1	Conductivity (us/cm) +/- 1.0%	Dissolved Oxygen (mg/L) +/- 1.0%	Turbidity (NTU) < 50 NTU	ORP/eH (mv) +/- 1.2 mv	Comments
0	3.44	—	280	0	5.4	6.84	2250	0.77	2.42*	-34.3	Sulfuric acid, no screen
5	3.49	—	280	0.4	5.4	6.83	1930	0.43	3.14*	-47.9	
10	3.51	—	280	0.9	5.5	6.83	1938	0.36	2.64	-55.4	* Visible particles in turbidity sample
15	3.51	—	280	1.5	5.6	6.84	1948	0.30	0.74	-61.9	
20	3.52	—	280	2.0	5.6	6.84	1957	0.29	1.98	-66.1	
25	3.49	—	280	2.6	5.6	6.83	1972	0.28	0.75	-69.7	
30	3.48	—	280	3.2	5.5	6.84	1961	0.25	2.32	-73.2	
											Sample Name: SWN-MW-3-N-01091025

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT SJA
 LOCATION SJA
 CLIENT SJA
 CONTRACTOR _____

H&A FILE NO. 0204800
 PROJECT MGR. Bryan Greer
 FIELD REP. Luke Pedem
 SAMPLING DATE 1/9/15

Sampling Data:

Well ID: SWN-MW-1 Well Depth: 17.12 ft Initial Depth To Water: 5.54 ft Purging Device: Peri
 Start time: 13:50 Depth To Top Of Screen: 8.5 ft Depth Of Pump Intake: 211 ft Tubing Present In Well: Yes No
 Finish Time: 14:20 Depth To Bottom Of Screen: 14.5 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C)	pH	Conductivity (us/cm) or (µs/cm)	Dissolved Oxygen (mg/L)	Turbidity (NTU) < 50 NTU	ORP/eH (mv) or (mV)	Comments
0	5.54	—	200	0	5.4	7.40	721.3	11.39	1.59	28.3	No odor or Sheen
5	5.52	—	200	0.3	6.0	6.89	692.3	10.97	1.34	61.4	
10	5.53	—	200	0.7	6.2	6.79	723.2	11.50	1.50	76.3	
15	5.53	—	200	1.1	6.4	6.75	712.1	11.05	1.34	87.4	
20	5.53	—	200	1.6	6.4	6.73	715.1	11.04	2.04	95.4	
25	5.52	—	200	2.2	6.2	6.71	716.0	11.05	2.72	102.4	
30	5.52	—	200	2.7	6.4	6.72	717.6	11.01	0.02	107.8	
Sample Name: <u>SWN-MW-1-N-01097025</u>											

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Pedem
 SAMPLING DATE 01/09/2025

Sampling Data:

Well ID: SWN-MW-2 Well Depth: 17.55 ft Initial Depth To Water: 6.49 ft Purging Device: Peri
 Start time: 15:10 Depth To Top Of Screen: 9.5 ft Depth Of Pump Intake: 212 ft Tubing Present In Well: Yes No
 Finish Time: 15:30 Depth To Bottom Of Screen: 14.7 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	6.49	—	340	0	3.6	7.46	300.4	11.25	0.02	120.4	No odor or sludge
5	6.53	—	340	0.4	4.2	7.23	296.8	10.54	12.9	127.9	
10	6.53	—	340	1.0	4.3	7.13	298.0	12.67	0.02	134.6	
15	6.53	—	340	1.5	4.4	7.10	298.7	10.35	0.67	136.8	
20	6.52	—	340	2.1	4.4	7.09	299.8	10.20	19.7	138.9	

Sample Name
SWN-MW-2-N-01091025

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/9/25

Sampling Data:

Well ID: FGF-MW-18 Well Depth: 14.99 ft Initial Depth To Water: 8.62 ft Purging Device: PERI
 Start time: 15:04 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 15:35 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
15:05	8.70	-	500	0.6	9.8	6.93	239.8	4.33	361	1.4	
15:10	8.71	-	500	1.1	9.8	6.63	233.8	4.19	67.3	10.0	
15:15	8.71	-	500	1.8	9.8	6.56	235.5	4.17	23.2	14.3	
15:20	8.72	-	500	2.5	9.7	6.52	238.8	4.30	12.2	17.4	
15:25	8.72	-	500	3.1	9.7	6.50	242.4	4.23	6.91	19.1	
SAMPLE ID: >FGF-MW-18-N-01092025 SAMPLE TIME: 15:30 SAMPLE DESCRIPTION: CLEAR, NO ODOR, NO SCREEN											

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/9/25

Sampling Data:

Well ID: SWN-MW-14 Well Depth: 16.98 ft Initial Depth To Water: 6.24 ft Purging Device: PERI
 Start time: 12:42 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 13:15 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
12:45	6.24	-	400	0.7	8.3	6.68	1663	3.05	1.69	20.3	
12:50	6.24	-	400	1.2	8.2	6.63	1666	3.04	1.86	22.4	
12:55	6.24	-	400	1.9	8.3	6.64	1664	3.07	1.06	23.5	
13:00	6.24	-	400	2.2	8.3	6.65	1664	3.03	0.02	24.4	
13:05	6.24	-	400	3.0	8.3	6.64	1662	2.99	0.33	25.5	
											SAMPLE ID:
											SWN-MW-14-N-01092025
											SAMPLE TIME:
											13:10
											SAMPLE DESCRIPTION:
											CLEAR, NO ODDOR, NO SHEEN



LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/9/25

Sampling Data:

Well ID: SUN-MW6 Well Depth: 23.97 ft Initial Depth To Water: 9.21 ft Purging Device: PERI
 Start time: 11:48 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~12 ft Tubing Present In Well: Yes No
 Finish Time: 12:20 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
11:50	9.22	-	400	0.6	5.4	6.79	1109	0.57	0.02	31.1	• INSTALLED DEDICATED TUBING AT ~12ft
11:55	9.22	-	400	1.2	5.4	6.73	1106	0.41	5.44	42.2	
12:00	9.22	-	400	1.6	5.4	6.77	1109	0.55	4.79	44.8	
12:05	9.22	-	400	2.2	5.5	6.71	1106	0.57	3.64	45.1	
12:10	9.22	-	400	2.8	5.4	6.73	1108	0.57	4.75	45.2	
										SAMPLE ID:	
										SUN-MW-6-N-01092025	
										SAMPLE TIME:	
										12:15	
										SAMPLE DESCRIPTION:	
										MILD ODOR, CLEAR, NO SNEEN	



LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/9/25

Sampling Data:

Well ID: SWN-MW-4 Well Depth: 15.01 ft Initial Depth To Water: 4.58 ft Purging Device: Puri
 Start time: 10:17 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 11:20 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
10:20	5.15	-	400	0.5	6.6	6.66	1788	1.22	29.7	129.2	
10:25	5.17	-	400	1.1	7.0	6.65	1904	0.94	15.1	105.5	
10:30	5.19	-	400	1.7	7.1	6.82	1930	0.77	9.83	84.5	
10:35	5.22	-	400	2.3	7.1	6.89	1893	0.16	24.6	64.1	
10:40	5.23	-	400	3.0	7.2	6.88	1889	0.57	12.2	43.5	
10:45	5.26	-	400	3.5	7.3	6.90	1875	0.48	13.7	26.2	
10:50	5.27	-	400	4.1	7.3	6.93	1878	0.39	19.9	8.1	
10:55	5.30	-	400	4.5	7.3	6.93	1878	0.34	4.59	-9.6	
11:00	5.31	-	400	5.1	7.3	6.93	1867	0.35	1.76	-18.7	
11:05	5.32	-	400	5.7	7.4	6.91	1858	0.30	0.77	-23.6	
11:10	5.33	-	400	6.2	7.3	6.92	1856	0.30	0.27	-28.6	
											SAMPLE ID:
											SWN-MW-4-N-01092025
											SAMPLE TIME:
											11:15



LOW FLOW/MNA FIELD SAMPLING FORM

Page 1 of 1

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/9/25

Sampling Data:

Well ID: SWN-MW-7 Well Depth: 19.91 ft Initial Depth To Water: 10.38 ft Purging Device: Peri
 Start time: 9:19 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 9:55 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
9:20	10.40	-	500	0.75	10.2	6.40	1357	7.18	0.02	246.8	
9:25	10.41	-	500	1.25	10.2	6.41	1339	7.27	0.35	247.6	
9:30	10.42	-	500	2.00	10.4	6.42	1334	7.14	0.02	248.4	
9:35	10.42	-	500	2.75	10.4	6.44	1319	7.20	0.61	249.3	
9:40	10.42	-	500	3.5	10.4	6.43	1311	7.19	0.26	249.9	
SAMPLE ID: <u>SWN-MW-7-N-01082025</u> SAMPLE TIME: <u>9:45</u> DUP ID: <u>SWN-MW-7-FD-01082025</u> DUP TIME: <u>10:15</u>											



LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/10/25

Sampling Data:

Well ID: GDF-GR-7D Well Depth: 63.8 ft Initial Depth To Water: 8.81 ft Purging Device: PERI
 Start time: 10:26 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~55 ft Tubing Present In Well: Yes No
 Finish Time: 11:10 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
10:30	9.01	-	400	0.4	11.2	6.80	805	2.46	6.47	27.2	REPLACED OLD DEDICATED TUBING w/ NEW TUBING AT ~55 ft btdc
10:35	9.04	-	400	0.9	11.4	6.77	808	2.44	6.58	28.3	
10:40	9.05	-	400	1.5	11.6	6.76	809	2.53	2.07	29.2	
10:45	9.06	-	400	2.2	11.5	6.77	813	1.89	1.28	30.1	
10:50	9.06	-	400	2.7	11.4	6.76	825	2.60	1.39	31.3	
10:55	9.06	-	400	3.5	11.6	6.75	832	2.45	0.56	32.4	
11:00	9.06	-	400	3.9	11.7	6.76	835	2.37	0.49	35.5	
											SAMPLE ID: GDF-GR-7D-N-01102025
											SAMPLE TIME: 11:05
											SAMPLE DESCRIPTION: CLEAR, NO ODOR, NO SHEEN

PROJECT SIA
 LOCATION SPOKANE
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. _____
 PROJECT MGR. B. GREER
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/10/25

Sampling Data:

Well ID: SWN-MW-5 Well Depth: 22.47 ft Initial Depth To Water: 2.78 ft Purging Device: PERI
 Start time: 7:03 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~12 ft Tubing Present In Well: Yes No
 Finish Time: 7:45 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min) or (gal/min)	Cumulative Purge Vol. (liters) or (gal)	Temperature (°F) or (°C) +/- 1.0 %	pH +/- 0.1	Conductivity (us/cm) +/- 10 %	Dissolved Oxygen (mg/L) +/- 10 %	Turbidity (NTU) < 50 NTU	ORP/eH (mv) +/- 10 mv	Comments
7:05	2.81	-	500	0.4	7.6	6.18	738.7	1.63	46.8	95.0	- INSTALLED DEDICATED TUBING AT ~12 FT b/c
7:10	2.82	-	500	0.9	7.5	6.12	742.3	1.21	10.2	93.4	
7:15	2.83	-	500	1.7	7.6	6.11	733.7	0.97	2.42	91.2	
7:20	2.83	-	500	2.2	7.6	6.07	729.8	0.87	0.02	90.0	
7:25	2.83	-	500	3.0	7.6	6.03	725.1	0.84	1.13	88.7	
7:30	2.83	-	500	3.7	7.6	6.04	718.9	0.81	1.15	87.9	
											SAMPLE ID:
											SWN-MW-5-N-01102025
											SAMPLE TIME:
											7:35
											SAMPLE DESCRIPTION:
											YELLOW TINT, MILD ODOR, No SHEEN
											DUPLICATE ID:
											SWN-MW-5-FD-01102025
											DUPLICATE TIME:
											8:05

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SJA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Keston
 SAMPLING DATE 1/10/25

Sampling Data:

Well ID: GDF-GR-8 Well Depth: 18.90 ft Initial Depth To Water: 5.64 ft Purging Device: Peri
 Start time: 9:40 Depth To Top Of Screen: 8.4 ft Depth Of Pump Intake: ~13 ft Tubing Present In Well: Yes No
 Finish Time: 10:05 Depth To Bottom Of Screen: 18.4 ft Date Well Installed: _____ Tubing Type: Replaced

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	5.64	—	300	0	11.3	6.38	1032	4.15	1.16	100.9	No read at screen
5	5.73	—	300	0.6	12.0	6.13	1057	4.31	0.02	121.6	
10	5.73	—	300	1.1	11.9	6.10	1056	4.15	0.02	133.8	
15	5.75	—	300	1.7	11.9	6.10	1055	4.19	0.02	142.6	
20	5.75	—	300	2.3	11.9	6.10	1059	4.19	0.02	149.7	
25	5.74	—	300	2.9	12.0	6.10	1063	4.07	0.02	155.9	
											Sample #: GDF-GR-8-N-0110105 @ 10:15

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SEI
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Pedem
 SAMPLING DATE 1/10/25

Sampling Data:

Well ID: PD-MW-1A Well Depth: 83.57 ft Initial Depth To Water: 11.88 ft Purging Device: Peri
 Start time: 7:40 Depth To Top Of Screen: 65 ft Depth Of Pump Intake: _____ ft Tubing Present In Well: Yes No
 Finish Time: 8:10 Depth To Bottom Of Screen: 75 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	11.88	—	360	0	8.9	8.28	474.1	5.47	3.50	137.6	No data on screen
5	11.98	—	360	0.6	9.8	7.34	433.4	2.60	2.32	99.4	
10	12.09	—	360	1.3	9.8	7.30	433.3	2.62	2.24	69.2	
15	12.11	—	360	1.9	9.8	7.31	433.1	2.79	2.52	52.5	
20	12.15	—	360	2.5	9.8	7.29	433.8	2.78	2.71	43.4	
25	12.14	—	360	3.2	9.9	7.29	433.8	2.70	1.45	36.4	
30	12.13	—	360	3.9	9.8	7.29	433.0	2.67	0.61	31.8	
											Sample #:
											PD-MW-1A-N-01102025
											SAMPLE TIME:
											8:20

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SEA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luis P. Pedraza
 SAMPLING DATE 1/13/24

Sampling Data:

Well ID: GCF-MW-5D Well Depth: 45.97 ft Initial Depth To Water: 31.61 ft Purging Device: Bladder
 Start time: 12:00 Depth To Top Of Screen: 25 ft Depth Of Pump Intake: ~36 ft Tubing Present In Well: Yes No
 Finish Time: 12:30 Depth To Bottom Of Screen: 45 ft Date Well Installed: _____ Tubing Type: Dual, Extra Diameter => Replaced

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	31.95	—	260	0	12.2	7.02	130	3.8	36.0	-210.0	No data on screen
5	32.25	—	260	0.9	12.2	6.97	1367	3.81	34.3	-326.8	
10	32.03	—	260	1.5	11.9	6.95	1369	3.72	19.2	-346.0	Water levels varies slightly when pump discharges
15	32.01	—	260	2.2	11.9	6.96	1355	3.55	10.8	-347.3	
20	32.02	—	260	2.9	12.0	6.96	1339	3.53	10.2	-328.9	
25	31.94	—	260	3.8	12.1	6.97	1318	3.46	8.23	-332.0	
30	31.97	—	260	3.9	12.0	6.97	1304	3.51	8.72	-338.0	

Sample #: GCF-MW-5D-N-2113225

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Peden
 SAMPLING DATE 1/13/15

Sampling Data:

Well ID: EA-MW-5B Well Depth: 57.23 ft Initial Depth To Water: 21.02 ft Purging Device: Peri
 Start time: 14:55 Depth To Top Of Screen: 73 ft Depth Of Pump Intake: ~33 ft Tubing Present In Well: Yes No
 Finish Time: 15:25 Depth To Bottom Of Screen: 43 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	21.02	—	300	0	9.5	7.77	815	4.56	7.48	-219.9	No data at screen
5	21.06	—	300	0.7	12.1	6.86	832	3.61	5.11	-264.7	
10	21.05	—	300	1.4	12.2	6.82	832	3.45	1.05	-278.6	
15	21.05	—	300	2.1	12.2	6.82	828	3.50	1.16	-316.7	
20	21.05	—	300	2.5	12.2	6.81	827	3.01	0.02	-301.5	
25	21.05	—	300	2.9	12.2	6.82	824	3.51	0.02	-303.0	
30	21.06	—	300	3.5	12.3	6.81	825	3.52	0.02	-302.5	
											Sample #: EA-MW-5B-N-01139015

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001PROJECT MGR. Breeyn GreerFIELD REP. S. JOHNSONSAMPLING DATE 1/13/25

Sampling Data:

Well ID: GCF-MW-11B Well Depth: 99.20 ft Initial Depth To Water: 32.84 ft Purging Device: BLADDER
 Start time: 15:36 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~37 ft Tubing Present In Well: Yes No
 Finish Time: 16:15 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
15:40	32.90	-	300	0.2	10.9	7.81	598.1	8.82	82.6	115.8	* INSTALLED 37 FT OF NEW TUBING
15:45	32.95	-	300	0.4	11.1	7.72	577.5	4.74	88.1	133.3	
15:50	32.91	-	300	0.7	11.3	7.66	549.1	0.87	45.1	145.9	
15:55	32.97	-	300	1.4	11.4	7.64	532.6	1.45	15.4	147.9	
16:00	32.96	-	300	2.0	11.4	7.61	509.2	1.68	11.1	150.0	
16:05	33.01	-	300	2.5	11.5	7.62	502.0	1.72	9.23	148.0	
SAMPLE ID:											
<u>GCF-MW-11B-N-01132025</u>											
SAMPLE TIME:											
<u>16:10</u>											
SAMPLE DESCRIPTION:											
<u>CLEAR, No O₂R, No SHEEN</u>											

PROJECT Spokane International Airport
LOCATION Spokane
CLIENT _____
CONTRACTOR _____

H&A FILE NO. 0209800-001
PROJECT MGR. Breeyn Greer
FIELD REP. S. JOHNSON
SAMPLING DATE 1/13/25

Sampling Data:

Well ID: GCF-MW-7 Well Depth: 44.57 ft Initial Depth To Water: 31.48 ft Purging Device: BLADDER
 Start time: 14:11 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~35 ft Tubing Present In Well: Yes No
 Finish Time: 14:55 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
14:15	32.31	-	450	0.6	11.8	6.93	6454	0.22	4.83	176.2	*REPLACED DEDICATED TUBING AT ~35 FEET
14:20	32.73	-	150	0.8	11.7	6.91	6461	0.88	3.83	175.9	
14:25	32.96	-	150	1.0	11.5	6.90	6466	1.49	2.36	175.3	
14:30	33.21	-	150	1.2	11.5	6.92	6607	1.65	0.66	176.2	
14:35	33.55	-	150	1.4	11.5	6.94	6768	1.75	1.30	177.2	
14:40	33.82	-	150	1.6	11.6	6.95	6825	1.81	0.74	177.5	
											SAMPLE ID:
											GCF-MW-7-N-01132025
											SAMPLE TIME:
											14:45
											SAMPLE DESCRIPTION:
											CLEAR, NO ODOR, NO SHEEN

PROJECT Spokane International Airport
LOCATION Spokane
CLIENT _____
CONTRACTOR _____

H&A FILE NO. 0209800-001
PROJECT MGR. Breeyn Greer
FIELD REP. S. JOHNSON
SAMPLING DATE 1/13/25

Sampling Data:

Well ID: GCF-MW-11 Well Depth: 14.72 ft Initial Depth To Water: 9.24 ft Purging Device: PERI
Start time: 12:33 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~13 ft Tubing Present In Well: Yes No
Finish Time: 13:15 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temp-erature (°F) or (°C) +/- 10%	pH +/- 0.1	Conduct-ivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
12:35	9.88	-	400	0.2	11.6	6.81	2443	0.44	3.65	184.6	• REPLACE DEDICATED TUBING AT ~13 A WEL
12:40	10.50	-	200	0.5	10.4	6.89	2435	8.86	2.21	180.1	• DO JUMPED AROUND AND MAY BE SUSPECT
12:45	10.86	-	100	0.6	10.4	6.94	2219	0.64	1.93	176.5	• LOWERED INTAKE WHILE SAMPLING TO
12:50	11.36	-	100	0.8	10.7	6.97	2036	6.48	1.32	176.4	ACCOMMODATE FOR DRAWDOWN
12:55	11.79	-	100	1.0	10.9	6.97	2008	6.63	2.04	177.1	
13:00	12.10	-	100	1.2	10.8	6.96	1976	6.91	1.21	177.5	
											SAMPLE ID: GCF-MW-11-N-01132025
											SAMPLE TIME: 13:05
											SAMPLE DESCRIPTION: CLEAR, NO ODOR, NO SHEEN

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/13/25

Sampling Data:

Well ID: GCF-MW-5 Well Depth: 13.26 ft Initial Depth To Water: 13.65 ft Purging Device: PERI
 Start time: 11:09 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~10 ft Tubing Present In Well: Yes No
 Finish Time: 11:50 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HOPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
11:10	3.68	-	300	0.3	8.7	6.93	248.9	8.19	23.6	91.5	* REPLACE DEDICATED TUBING AT ~104 BAR
11:15	3.68	-	300	0.5	8.2	6.62	238.4	7.86	19.8	108.8	
11:20	3.70	-	450	0.9	7.8	6.40	252.2	9.76	12.4	126.5	
11:25	3.70	-	450	1.5	7.6	6.35	266.7	10.21	6.03	133.6	
11:30	3.71	-	450	2.1	7.3	6.34	277.3	10.77	3.97	139.2	
11:35	3.71	-	450	2.7	7.3	6.33	283.6	10.96	4.10	142.9	
											SAMPLE ID:
											GCF-MW-5-N-01132025
											SAMPLE TIME:
											11:40
											DUP ID:
											GCF-MW-5-FD-01132025
											DUP TIME:
											12:10
											SAMPLE DESCRIPTION:
											CLEAR, NO ODOR, NO SHEEN

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breelyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/13/25

Sampling Data:

Well ID: GCF-MU-13 Well Depth: 14.30 ft Initial Depth To Water: 2.62 ft Purging Device: PERI
 Start time: 9:28 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~12 ft Tubing Present In Well: Yes No
 Finish Time: 10:50 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HOPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
9:30	3.52	-	400	0.5	9.5	7.07	1141	2.27	20.7	142.0	* REPLACED TUBING, INTAKE AT 40 FT WEL
9:35	3.72	-	300	0.7	8.8	7.00	1155	1.83	23.3	140.9	
9:40	4.21	-	200	1.1	8.6	6.95	1134	2.63	35.3	138.1	
9:45	4.62	-	200	1.5	8.6	6.94	1126	2.69	41.5	136.7	
9:50	5.12	-	200	1.7	8.8	6.91	1145	1.97	56.2	135.7	
9:55	5.56	-	200	2.2	9.0	6.91	1189	1.53	62.1	135.4	
10:00	5.79	-	150	2.5	8.6	6.90	1241	1.34	56.5	136.0	
10:05	6.22	-	150	2.8	8.9	6.93	1285	1.30	62.1	135.7	
10:10	6.50	-	150	3.0	9.1	6.95	1318	1.35	74.2	135.9	
10:15	6.92	-	150	3.5	8.6	6.95	1398	1.58	72.6	136.0	
10:20	7.21	-	150	3.8	8.7	6.98	1416	1.75	68.0	138.1	
10:25	7.50	-	150	4.0	9.1	6.99	1395	1.81	66.9	136.7	
10:30	7.81	-	150	4.2	9.3	6.97	1389	1.81	53.5	137.0	
10:35	8.06	-	150	4.5	9.4	6.97	1386	1.96	49.8	137.5	
											SAMPLE ID: GCF-MU-13-N-01132025
											SAMPLE TIME: 10:40
											SAMPLE DESCRIPTION: CLEAR TAN TINT, NO ODOOR, NO SHEEN

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/14/25

Sampling Data:

Well ID: GDF-MW-10A Well Depth: 88.86 ft Initial Depth To Water: 16.69 ft Purging Device: PERI
 Start time: 14:01 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~78 ft Tubing Present In Well: Yes No
 Finish Time: 14:35 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temp-erature (°F) or °C +/- 10%	pH +/- 0.1	Conduct-ivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
14:05	16.74	-	300	0.3	13.2	6.93	723	1.33	2.31	119.7	• INSTALLED TUBING AT ~78 FT BTAC
14:10	16.74	-	300	0.7	13.2	6.85	776	0.71	2.44	128.7	
14:15	16.74	-	300	1.2	13.1	6.78	780	0.44	2.77	133.1	
14:20	16.75	-	300	1.7	13.2	6.77	774	0.47	3.53	134.6	
14:25	16.75	-	300	2.1	13.2	6.79	765	0.39	3.38	135.9	
										SAMPLE ID: <u>GDF-MW-10A-N-0114 2025</u>	
										SAMPLE TIME: <u>14:30</u>	
										SAMPLE DESCRIPTION: <u>CLEAR, NO ODOOR, NO SHEEN</u>	

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/14/25

Sampling Data:

Well ID: GCF-MW-12A Well Depth: 79.82 ft Initial Depth To Water: 30.76 ft Purging Device: BLADDER
 Start time: 11:26 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~73 ft Tubing Present In Well: Yes No
 Finish Time: 12:05 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
11:30	30.81	-	250	0.3	11.0	7.04	575.1	5.45	57.8	123.3	• INSTALLED TUBING IN WELL AT ~73 btm
11:35	30.75	-	250	0.7	11.4	7.01	594.0	1.79	25.9	121.6	
11:40	30.75	-	300	1.1	11.4	6.99	597.1	3.68	12.8	121.9	
11:45	30.75	-	300	1.8	11.4	6.99	597.0	3.41	13.0	121.8	
11:50	30.75	-	300	2.3	11.5	6.99	594.5	3.39	10.7	122.2	
											SAMPLE ID:
											GCF-MW-12A-N-01142025
											SAMPLE TIME:
											11:55
											DUPLICATE ID:
											GCF-MW-12A-FD-01142025
											DUPLICATE TIME:
											12:25
											SAMPLE DESCRIPTION:
											CLEAR, NO ODB, NO SHEEN

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/14/25

Sampling Data:

Well ID: GCF-MW-11A Well Depth: ~97.80 (DIFFICULT TO FEEL BOTTOM) ft Initial Depth To Water: 33.16 ft Purging Device: BLADDER
 Start time: 9:28 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~90 ft Tubing Present In Well: Yes No
 Finish Time: 10:45 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
9:30	33.12	-	150	0.2	9.5	7.03	607.7	16.31	274	133.7	* INSTALLED TUBING AT ~90 ft bloc
9:35	33.15	-	150	0.4	9.4	7.02	631.3	0.82	203	128.7	
9:40	33.15	-	150	0.6	9.2	7.07	601.1	3.53	139	124.4	* ACCIDENTALLY TOUCHED THE BOTTOM OF THE WELL WHEN DEPLOYING, THEN HAD TO REMOVE AND REDEPLOY TO TROUBLESHOOT
9:45	33.15	-	150	0.7	9.4	7.04	602.7	2.69	118	122.6	
9:50	33.15	-	150	0.8	9.8	7.05	599.3	1.86	116	120.9	
9:55	33.15	-	150	1.0	10.0	7.04	595.4	2.22	115	120.8	
10:00	33.15	-	150	1.2	10.0	7.04	593.0	2.56	95.5	120.7	
10:05	33.15	-	150	1.3	9.8	7.04	595.0	2.74	87.8	121.3	
10:10	33.15	-	150	1.6	10.0	7.04	594.4	2.44	77.4	120.5	
10:15	33.15	-	150	1.8	9.9	7.04	594.7	2.80	70.3	121.0	
10:20	33.15	-	150	2.0	9.9	7.05	595.3	2.36	58.0	120.1	
10:25	33.15	-	150	2.2	9.9	7.04	598.6	2.51	55.5	120.2	
10:30	33.15	-	150	2.4	10.1	7.04	597.3	2.20	49.5	120.1	
											SAMPLE ID:
											<u>GCF-MW-11A-N-01142025</u>
											SAMPLE TIME:
											<u>10:35</u>
											SAMPLE DESCRIPTION:
											<u>TAN TINT, NO ODOR, NO SHEEN</u>

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT STA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Pedem
 SAMPLING DATE 1/14/25

Sampling Data:

Well ID: GDF-GR-5 Well Depth: 24.98 ft Initial Depth To Water: 3.51 ft Purging Device: Peri
 Start time: 13:30 Depth To Top Of Screen: 10 ft Depth Of Pump Intake: 218 ft Tubing Present In Well: Yes No
 Finish Time: 14:00 Depth To Bottom Of Screen: 25 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	3.51	—	260	0	8.2	7.56	201.2	13.29	0.50	-222.0	No odor or skin
5	3.57	—	260	0.4	8.0	7.78	207.0	13.09	0.02	-245.1	
10	3.56	—	260	1.0	7.8	7.15	209.6	12.86	0.02	-251.2	
15	3.55	—	260	1.6	7.7	7.10	213.3	12.41	0.02	-271.0	
20	3.57	—	260	2.3	7.5	7.08	215.1	12.74	0.02	-273.9	
25	3.57	—	260	2.9	7.5	7.11	215.1	12.62	0.02	-283.8	
30	3.58	—	260	3.5	7.3	7.09	213.8	12.67	0.02	-283.6	
											Sample #: <u>GDF-GR-5-N-01142025</u>

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Peden
 SAMPLING DATE 1/14/25

Sampling Data:

Well ID: EA-MW-8B Well Depth: 47.40 ft Initial Depth To Water: 13.59 ft Purging Device: Per:
 Start time: 11:20 Depth To Top Of Screen: 13 ft Depth Of Pump Intake: ~23 ft Tubing Present In Well: Yes No
 Finish Time: 11:45 Depth To Bottom Of Screen: 33 ft Date Well Installed: _____ Tubing Type: Replaced

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	13.59	—	240	0	11.4	7.31	198.0	10.77	2.29	-137.0	No gal or screen
5	14.10	—	240	0.6	11.3	7.17	187.6	10.49	4.09	-190.8	
10	14.11	—	240	1.2	11.3	7.12	186.1	10.29	4.04	-197.5	
15	14.13	—	240	1.7	11.4	7.11	186.9	10.21	6.01	-197.3	
20	14.15	—	240	2.3	11.5	7.12	189.4	10.04	4.95	-199.6	
25	14.17	—	240	2.9	11.6	7.12	187.9	10.10	6.54	-205.5	

Sample #: EA-MW-8B-N-01142025

PROJECT Spokane International Airport
LOCATION Spokane
CLIENT
CONTRACTOR

H&A FILE NO. 0209800-001
PROJECT MGR. Breeyn Greer
FIELD REP. S. JOHNSON
SAMPLING DATE 1/15/25

Sampling Data:
 Well ID: GDF-GR-3 Well Depth: 15.25 ft Initial Depth To Water: 9.35 ft Purging Device: PERI
 Start time: 8:37 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~12 ft Tubing Present In Well: Yes No
 Finish Time: 9:15 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HOPE

Elapsed Time (24 hour)	Depth To Water (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments	
8:40	9.86	-	400	0.2	11.7	6.59	416.9	5.87	8.02	147.1	*REPLACED TUBING AT ~12 ft btoc
8:45	10.03	-	150	0.4	10.5	6.53	394.1	4.58	7.04	149.1	
8:50	10.13	-	150	0.6	10.8	6.56	394.9	1.75	6.54	150.5	
8:55	10.25	-	150	0.8	11.0	6.60	389.6	1.63	7.49	154.0	
9:00	10.38	-	150	1.0	11.2	6.61	386.7	1.54	7.20	159.4	

SAMPLE ID: GDF-GR-3-N-01152025
SAMPLE TIME: 9:05
SAMPLE DESCRIPTION: CLEAR, NO ODOOR, NO SHEEN

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/15/25

Sampling Data:

Well ID: GDF-GR-4 Well Depth: 20.10 ft Initial Depth To Water: 17.79 ft Purging Device: PERI
 Start time: 9:41 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~19 ft Tubing Present In Well: Yes No
 Finish Time: 10:55 Depth To Bottom Of Screen: _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
9:45	17.84	-	100	0.1	11.2	6.06	936	3.07	9.61	172.3	* REPLACED DEDICATED TUBING AT ~19 FT BTWC
9:50	17.85	-	100	0.2	11.2	6.04	935	4.28	5.67	181.8	
9:55	17.87	-	100	0.5	11.7	6.05	937	3.74	3.78	198.1	
10:00	17.90	-	100	0.7	11.8	6.08	939	3.98	4.60	227.6	
10:05	17.92	-	100	0.9	11.9	6.10	936	4.67	4.08	261.9	
10:10	17.94	-	100	1.1	12.2	6.12	928	4.15	0.02	284.9	
10:15	17.96	-	100	1.4	12.4	6.11	922	4.71	3.71	302.8	
10:20	17.98	-	100	1.6	12.3	6.13	915	4.51	3.80	315.7	
10:25	17.99	-	100	1.7	12.3	6.13	895	4.99	3.37	328.6	
10:30	18.00	-	100	2.0	12.5	6.14	885	4.04	3.23	336.5	
10:35	18.01	-	100	2.2	12.5	6.15	879	4.74	3.03	340.6	SAMPLE ID: GDF-GR-4-N-01152025
10:40	18.02	-	100	2.4	12.5	6.15	873	4.85	3.21	345.7	SAMPLE TIME: 10:45
											SAMPLE DESCRIPTIONS: CLEAR, NO ODOR, NO SHEEN

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Peden
 SAMPLING DATE 1/15/25

Sampling Data:

Well ID: GDF-GR-2 Well Depth: 15.10 ft Initial Depth To Water: 6.12 ft Purging Device: Peri
 Start time: 9:05 Depth To Top Of Screen: 4.6 ft Depth Of Pump Intake: 2.1 ft Tubing Present In Well: Yes No
 Finish Time: 9:30 Depth To Bottom Of Screen: 14.6 ft Date Well Installed: _____ Tubing Type: Replaced

Elapsed Time	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	6.12	—	280	0	11.5	6.44	1599	8.83	9.10	-166.8	No odor at screen
5	8.02	—	280	0.5	11.5	6.12	1505	8.51	7.69	-246.0	
10	8.70	—	150	1.1	11.8	6.17	1469	7.48	7.56	-272.5	Getting major drawdown, extending
20	9.12	—	150	1.7	11.8	6.14	1478	7.26	8.21	-265.8	by 3 ft and lowering purge rate
25	9.49	—	150	2.1	11.5	6.12	1467	7.36	15.7	-262.0	
											Going to sample despite constant drawdown
											Sample #s:
											GDF-GR-2-N-01152025
											GDF-GR-2-FD-01152025
											Water level at 11.35 ft at end of sampling



LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. Johnson
 SAMPLING DATE 1/17/25

Sampling Data:

Well ID: GCF-MW-8 Well Depth: 41.09 ft Initial Depth To Water: 32.22 ft Purging Device: BLADDER
 Start time: 8:23 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~40 ft Tubing Present In Well: Yes No
 Finish Time: 9:05 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
8:30	32.60	-	200	0.7	10.3	7.28	1293	0.93	41.5	170.7	• INSTALLED DEDICATED TUBING AT ~40 FT • ACCIDENTALLY HIT BOTTOM OF WELL WHEN DEPLOYING
8:35	32.70	-	200	1.0	10.4	7.19	1299	2.94	42.4	169.6	
8:40	32.79	-	200	1.4	10.5	7.18	1310	2.86	42.7	168.6	
8:45	32.86	-	200	1.7	10.5	7.17	1319	2.69	37.1	168.4	
8:50	32.92	-	200	2.0	10.4	7.18	1317	2.75	25.5	168.0	
											SAMPLE ID:
											GCF-MW-8-N-01172025
											SAMPLE TIME:
											8:55
											Duplicate ID:
											GCF-MW-8-FD-01172025
											Duplicate Time:
											9:25
											SAMPLE DESCRIPTION:
											CLEAR, NO ODR, NO SCREEN



LOW FLOW/MNA FIELD SAMPLING FORM

Page 1 of 1

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT _____
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. JOHNSON
 SAMPLING DATE 1/17/25

Sampling Data:
 Well ID: GCF-MW-10 Well Depth: 15.80 ft Initial Depth To Water: 5.70 ft Purging Device: PERI
 Start time: 10:18 Depth To Top Of Screen: _____ ft Depth Of Pump Intake: ~10 ft Tubing Present In Well: Yes No
 Finish Time: 10:55 Depth To Bottom Of Screen _____ ft Date Well Installed: _____ Tubing Type: HDPE

Elapsed Time (24 hour)	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°F) or (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
10:20	6.02	-	300	0.3	9.0	7.33	718.6	12.56	15.7	153.0	* INSTALLED DEDICATED TUBING AT ~10 ft btoC
10:25	6.41	-	150	0.7	8.4	7.16	718.5	12.01	5.82	159.3	
10:30	6.74	-	100	0.8	8.1	7.16	711.4	11.80	4.02	163.5	
10:35	7.11	-	100	1.0	8.3	7.13	708.8	11.84	3.37	166.6	
10:40	7.60	-	100	1.2	8.1	7.10	702.4	11.80	2.57	169.4	

SAMPLE ID: GCF-MW-10-N-01172025
 SAMPLE TIME: 10:45
 SAMPLE DESCRIPTION: CLEAR, No ODOOR, No SHEEN

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
LOCATION Spokane
CLIENT SIA
CONTRACTOR _____

H&A FILE NO. 0209800-001
PROJECT MGR. Breeyn Greer
FIELD REP. Luke Pedersen
SAMPLING DATE 1/17/15

Sampling Data:
Well ID: EA-MW-7A Well Depth: 67.50 ft Initial Depth To Water: 10.48 ft Purging Device: Peri
Start time: 10:10 Depth To Top Of Screen: 58 ft Depth Of Pump Intake: ~63 ft Tubing Present In Well: Yes No
Finish Time: 10:35 Depth To Bottom Of Screen: 68 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
<u>2</u>	<u>10.48</u>	<u>—</u>	<u>280</u>	<u>0</u>	<u>11.8</u>	<u>7.90</u>	<u>235.1</u>	<u>5.99</u>	<u>19.1</u>	<u>-301.4</u>	<u>No odor or screen</u>
<u>5</u>	<u>10.43</u>	<u>—</u>	<u>280</u>	<u>0.7</u>	<u>12.3</u>	<u>7.54</u>	<u>181.8</u>	<u>5.07</u>	<u>19.2</u>	<u>-339.0</u>	
<u>10</u>	<u>10.43</u>	<u>—</u>	<u>280</u>	<u>1.3</u>	<u>12.3</u>	<u>7.46</u>	<u>183.1</u>	<u>4.91</u>	<u>20.8</u>	<u>-333.1</u>	
<u>15</u>	<u>10.42</u>	<u>—</u>	<u>280</u>	<u>2.0</u>	<u>12.4</u>	<u>7.44</u>	<u>181.7</u>	<u>4.68</u>	<u>14.2</u>	<u>-324.9</u>	
<u>20</u>	<u>10.43</u>	<u>—</u>	<u>280</u>	<u>2.6</u>	<u>12.3</u>	<u>7.47</u>	<u>179.9</u>	<u>4.69</u>	<u>6.96</u>	<u>-331.0</u>	
<u>25</u>	<u>10.43</u>	<u>—</u>	<u>280</u>	<u>3.3</u>	<u>12.3</u>	<u>7.41</u>	<u>179.6</u>	<u>4.67</u>	<u>6.70</u>	<u>-328.1</u>	

Sample #: EA-MW-7A-N-01172025

LOW FLOW/MNA FIELD SAMPLING FORM

PROJECT Spokane International Airport
 LOCATION Spokane
 CLIENT SIA
 CONTRACTOR _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Luke Peden
 SAMPLING DATE 11/7/15

Sampling Data:

Well ID: EA-MW-7B Well Depth: 95.01 ft Initial Depth To Water: 11.00 ft Purging Device: Per.
 Start time: 8:30 Depth To Top Of Screen: 7.5 ft Depth Of Pump Intake: ~18 ft Tubing Present In Well: Yes No
 Finish time: 9:00 Depth To Bottom Of Screen: 27.5 ft Date Well Installed: _____ Tubing Type: _____

Elapsed Time	Depth To Water From Casing (ft)	Pump Setting (ml/min) or (gal/min)	Purge Rate (ml/min)	Cumulative Purge Vol. (gal)	Temperature (°C) +/- 10%	pH +/- 0.1	Conductivity (us/cm) +/- 10%	Dissolved Oxygen (mg/L) +/- 10%	Turbidity (NTU) <50 NTU	ORP/eH (mv) +/- 10 mv	Comments
0	11.00	—	240	0	11.3	7.45	812	7.32	11.3	-275.1	No obs of screen
5	10.98	—	240	0.8	11.7	7.15	895	7.67	3.77	-291.3	
10	10.99	—	240	1.5	11.6	7.13	895	7.70	0.56	-293.4	JRP acting a bit funny, but
15	10.98	—	240	2.3	11.5	7.13	895	6.80	0.17	-293.1	going to sample anyway
20	10.99	—	240	2.8	11.5	7.13	895	7.51	0.79	-292.0	
25	10.99	—	240	3.3	11.5	7.13	896	6.80	2.23	-290.8	
30	11.00	—	240	3.8	11.5	7.13	896	7.31	1.35	-290.8	
											Sample #: EA-MW-7B-N-01172015

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX A-2

Soil Boring Logs

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Webster

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breelyn Greer
 FIELD REP.: Sam Vinkelmann
 DATE STARTED: Jan 19, 2025
 DATE FINISHED: Jan 15, 2025

Elevation		Datum	Boring Location		Rig Make	Drill Diameter					Field Test			
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Dilatancy	Toughness	Plasticity	Strength			
0	0	LTA-002-N-5000-01/15/2025 0930		ML	SILT, trace sand, well-sorted, moist. No odor, low plastic, organic odor									
	1	LTA-002-N-5001-01/15/2025 0935												
	3	LTA-002-N-5003-01/15/2025 0930	3	SW	WELL-SORTED SAND, loose, med to coarse sand, trace silt (LPT). Moist, no odor, some coarse sand to small cobbles. Sub-angular to sub-rounded. Gray-brown									
	6	LTA-002-N-5006-01/15/2025 0935												
10	10	LTA-002-N-5010-01/15/2025 0940												
					Subsided at 4 74" rubble covered at ~11									
					BH terminate at 15 ft bgs									

Water Level Data				Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:			Max Depth: 15 ft
			Bottom of Casing	Bottom of Hole	Water	
						Other Notes:
						BORING NO. LTA-002

Field Tests: Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.

LTA-001

DRAFT

Page 1 of 7

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whistler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breeyn Greer
 FIELD REP.: Zach Castilla deSilva
 DATE STARTED: 01/15/2025
 DATE FINISHED:

Elevation: Datum: Boring Location: LTA-001 Rig Make: Terrasolid

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test			
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength
0	Surface	LTA-001-N-5000-01152025 0805		ML	Dark brown, frozen solid, stiff, moist, med plastic, silt w/ fine sand w/ organics ~ 5% "fill"									
1	1	LTA-001-N-5001-01152025 0810												
3	3	LTA-001-N-5003-01152025 085	3	SP	Brown, low plasticity, fine grained & hard organic present, trace medium sand trace gravel, few pebbles.									
5														
6		LTA-001-N-5006-01152025 0800	7.5	SW	Notes: w/ cobbles sub angular well graded, med & coarse sand gray-brown. some sub-angular cobbles, trace gravels "alluvial flood deposits"									
7.5														
10		LTA-001-N-5010-01152025 0830												
12.5		LTA-001-N-5012-01152025 0900			6W at 12.5'									
15					End of Boring									
20														
25														

Water Level Data						Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth: 15'	Bags Used: 6
			Bottom of Casing	Bottom of Hole	Water								
BORING NO. LTA-001													

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER:

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Zack Cash/Brad SL
 DATE STARTED 01/15/2005
 DATE FINISHED 01/15/2005

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in					Field Test				
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength	
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines				
0	0	LTA-003-N-5000-0152005 L1000		ML	Dark Brown, med plastic, silt w/ 25% organics										
1	1	LTA-003-N-5001-0152005 L1003	2.5	SM	Light brown f sand w/ silt, some pebbles, sub angular										
3	3	LTA-003-N-5003-0152005 L1015	4	U	Well graded med-coarse sand w/ gravels, some sub angular pebbles, few sub angular cobbles										
5	6	LTA-003-N-5006-0152005 L1015	6	CH	Light Brown, clay, moist										
			6.5	CH	Color change to dark brown fat clay w/ sand										
			7	SW	Brown, well graded med to coarse sand w/ gravel, some pebbles sub angular organics 5%, caliche present										
10	10	LTA-003-N-5010-0152005 L1020	12	GP	Gray poorly graded gravel w/ sand & red-brown ribbed basalt cobbles sub angular, dry										
15	17	LTA-003-N-5017-0152005 L1025	17	GP	light brown poorly graded gravel w/ sand, sub angular gravel, caliche present										
		LTA-003-N-5018-0152005 L1030	18	CH	red brown, fat clay, med stiff med-high plasticity w/ sub angular cobbles										
20					End boring at 20'										

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:					
			Bottom of Casing	Bottom of Hole	Water			
					18'	O	<input type="checkbox"/> Riser Pipe	Max Depth: _____
						T	<input type="checkbox"/> Screen	Bags Used: _____
						U	<input type="checkbox"/> Filter Sand	Other Notes: _____
						S	<input type="checkbox"/> Cuttings	
						G	<input type="checkbox"/> Grout	
							<input type="checkbox"/> Concrete	
							<input type="checkbox"/> Bentonite Seal	

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Wasthler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breelyn Greer
 FIELD REP.: S. Borkelheimer
 DATE STARTED: 1/15/25
 DATE FINISHED: 1/15/25

Elevation: ft Datum: Boring Location: Rig Make: CTA Sonic

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test				
						% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	0	JTA-001-N-5000-01152025 1505		ML	SANDY SILT w/ GRAVEL. Red-brown. Cobbles < 5" Sub-sanded. Moist, organic odor. Mod. plast.										
	3	JTA-001-N-5003-01152025 1510			Same but dark brown to 6" 8" cobbles, sub angular "FILL"										
	6	JTA-001-N-5006-01152025 1515		ML	SANDY SILT, gray to gray-brown No cobbles. Moist. Roots										
	8	JTA-001-FD-5008-01152025 1515		SM	SILTY SAND w/ GRAVEL, dark brown Sub-angular gravel. Sand is med to fine size Moist. Perched water?										
10	10	JTA-001-N-5010-01152025 1520		ML	SANDY SILT w/ GRAVEL. Red-brown, moist fine to med. sand. Mod. Plast. Roots.										
	15	JTA-001-N-5015-01152025 1525		SM	WELL GRADED SAND w/ SILT & GRAVEL Cobbles < 6". Moist. Basalt cobbles, hematite nodules										
20	20	JTA-001-N-5020-01152025 1530													
	23	JTA-001-N-5023-01152025 1535													
25					Saturated at 24' bps Bottom of BH										

Water Level Data						Sample ID		Well Diagram				Summary								
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water															

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT Geiger Field PFAS Support
 LOCATION Spokane International Airport
 CLIENT Spokane International Airport
 CONTRACTOR Yellow Jacket Drilling
 DRILLER

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. S. Berkehammer
 DATE STARTED 1/15/25
 DATE FINISHED 1/16/25

Elevation		Datum		Boring Location		Rig Make		Drill Diameter					Field Test			
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			% Fines	Dilatancy	Toughness	Plasticity	Strength	
						% Coarse	% Fine	% Coarse	% Medium	% Fine						
0	0	JTA-002-N-5000-01152025 1555 1600		ML	SANDY SILT w/ GRAVEL, Yellow-brown to Gray Brown. Moist to Dry. Loose, low plastic. Gravel < 2". Trace fine sand. Organic odor.											
	3	JTA-002-N-5003-01152025 1605 1635														
	6	JTA-002-N-5006-01152025 1610	8		One large cobble/small boulder, ground up by drill rig. Conglomerate											
	10	JTA-002-N-5010-01152025 1615		ML	GRAVELLY SILT w/ SAND. Very similar to above, but gravel > sand.											
	15	JTA-002-N-5015-01152025 1620	14		Pieces of conglomerate rock, pulverized Poor return from 15-20'											
	20	JTA-002-N-5020-01152025 1625	20	CL	LEAN CLAY. Light brown. DRY. Very stiff to hard. Low plast.											
	25	JTA-002-N-5025-01152025 1628														

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to:		
			Bottom of Casing	Bottom of Hole	Water

Sample ID	
O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram	
	Riser Pipe
	Screen
	Filter Sand
	Cuttings
	Grout
	Concrete
	Bentonite Seal

Summary	
Max Depth:	
Bags Used:	
Other Notes:	

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breecyn Greer
CLIENT	Spokane International Airport	FIELD REP.	
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation ft	Datum	Boring Location	Rig Make	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test					
					Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength		
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol		% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines				
25				CL	See Rev Page										
			28	SW- SM	WELL GRADED SAND w/ SILT + GRAVEL Moist, Dark brown, sub-angular to sub-rounded.										
30	30	JTA-002-N-5030-01/15/2025 1630													
			32	CL	LEAN CLAY, light brown to red brown. Moist, Veg. stiff, low plast.										
35	36			SP- SM	POORLY GRADED SAND w/ SILT. Red-gray. DRY, Few gravel, sub-angular.										
40	40	JTA-002-N-5040-01/16/2025 830	40	CH	FAT CLAY w/ SAND. Few gravel, rounded to sub-angular, soft clay										
	42	JTA-002-N-5042-01/16/2025 835													
45	44				Basalt bedrock poor return.										
50					Bit broken @ 50' bgs										

Water Level Data			Sample ID			Well Diagram			Summary						
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth: <u>50' B</u>	Bags Used: _____	Other Notes: _____	
			Bottom of Casing	Bottom of Hole	Water										
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High				
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.															
Form 2001 USCS pl NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.															

BORING NO. JTA-002

TEST BORING REPORT

BORING NO.

JTA-003

Page 1 of 2

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whistler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breevn Greer
 FIELD REP.: S. Berghammer
 DATE STARTED: 1/16/25
 DATE FINISHED: 1/16/25

Elevation		ft	Datum	Boring Location		Rig Make	Drill Diameter	in				Field Test				
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)		% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	0			SM	SILTY SAND w/ GRAVEL. Moist. Dark Brown. Loose. Organic odor. Sub-rounded gravel. Fine to med. sand.											
	1															
	3															
			4	CL	SANDY LEAN CLAY w/ GRAVEL. Soft. Brown, moist. Mod. plast. Rounded to sub-rounded gravel. ← 3"											
	6															
			7	SW-SM	WELL-GRADED SAND w/ SILT & GRAVEL. Brown to Dark Brown. DRY. Fine sand to fine gravel, few coarse gravel. Loose. No obs. Sub-rounded grains.											
	10	10														
				SW	Moisture increases. Fewer fines (SW)											
					(Perched water in sand above clay)											
				CL	LEAN CLAY. Stiff to very stiff. Light to Red Brown. Dry. Low plasticity. Few coarse sand.											
	20				Yellow-brown @ 20'											
					Coarse sand at 22', <5% Rounded											
	25		25		see next page											

Water Level Data						Sample ID		Well Diagram			Summary									
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water															

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. _____
 DATE STARTED _____
 DATE FINISHED _____

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in					Field Test												
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength									
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines							
<i>25</i>			<i>27</i>	<i>CL</i>	<i>SANDY LEAN CLAY. Yellow-Brown. Moist. SPT, med. plast, Fract med. sand</i>																		
					<i>Decreasing sand content</i>																		
<i>30</i>			<i>30</i>		<i>Basalt bedrock.</i>																		
<i>35</i>					<i>Bottom of bedrock at 35' bgs</i>																		
<i>40</i>																							
<i>45</i>																							
<i>50</i>																							

Water Level Data						Sample ID			Well Diagram			Summary								
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water															

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.

JTA-004

Page 1 of 2

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whistler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breeyn Greer
 FIELD REP.: S. Buckelhammer
 DATE STARTED: 1/16/25
 DATE FINISHED: 1/16/25

Depth (ft.)	Sample Depth (ft.)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test						
						% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	0			ML	Medium-Dark Brown SANDY SILT w/ clay. Mod. plasticity. Moist. Organic odor.												
	1																
	3				Lenses of med. to coarse sand Few large rounded gravel @ 4'												
	6																
	10				Pulverized rock @ 8': conglomerate cobble												
	14																
15	15			SW SM	WELL GRADED SAND w/ GRAVEL Fine to coarse sand. Small to large gravel. Rounded to sub-round. Moist, few fines. Very loose sand												
	18			CL	Very Hard Red/Yellow-Brown SANDY LEAN CLAY Dry to moist. Angular sand. Low plast.												
	20			CL	Increasing sand to 20': looser & softer. Pebbles < 4"												
	20			CL	Same as above												
	25				See next page												

Water Level Data						Sample ID		Well Diagram				Summary						
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	□	▣	□	⊠	▤	▥	Max Depth:	Bags Used:
			Bottom of Casing	Bottom of Hole	Water													

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT Geiger Field PFAS Support
 LOCATION Spokane International Airport
 CLIENT Spokane International Airport
 CONTRACTOR Yellow Jacket Drilling
 DRILLER

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP.
 DATE STARTED
 DATE FINISHED

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter					Field Test											
					Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength								
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0 -25						Same as above															
30 -30	30				SM	Dense Yellow brown SILTY SAND w/ GRAVEL. Sub-rounded gravel. Very friable. DRY. Pebbles < 4" "weathered basalt"															
35 -40																					
40 -45											Bottom of borehole at 40 ft bgs										
45 -50																					

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:					
			Bottom of Casing	Bottom of Hole	Water	O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth: _____ Bags Used: _____ Other Notes: _____
Field Tests			Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High			Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High		

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO. LTA-005

Page 1 of 3

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	<u>S. Baskin</u>
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	<u>1/16/25</u>
DRILLER	<u>Zach Whistler</u>	DATE FINISHED	<u>1/16/25</u>

Elevation		Datum	Boring Location		Rig Make	Drill Diameter						Field Test			
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Fines		Dilatancy	Toughness	Plasticity	Strength
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines				
0	0			ML	Loose Dark Brown SANDY SILT w/ CLAY. Comp. plast. Moist. "FILL"										
	1		2.5	SM	Loose medium Brown WELL GRADED SAND w/ GRAVEL. Fine to Coarse Sand Gravel < 2" rounded to sub round. Moist.										
	3														
	6				Cobbles 1-5", sub rounded. (Basalt)										
	10				poor recovery										
	15				Increasing moisture										
	19														
	20		20	CL	(Perched water) Hard to very stiff, red gray to light brown, LEAN CLAY. Drg. Thin (< 2") lenses of med. Sand										
	25				see next page										

Water Level Data						Sample ID		Well Diagram				Summary								
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water	Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample	Geoprobe										

Field Tests: Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.
LTA-005
Page **2** of **2**

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: _____

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. _____
 DATE STARTED _____
 DATE FINISHED _____

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter						Field Test			
					Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength	
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)									
25	25	LTA-005-N-3024-01/02/25 1430			Basalt bedrock highly weathered									
30					Bottom of borehole @ 30'									
35														
40														
45														
50														

Water Level Data			Depth in feet to:			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	T	U	S	G	Max Depth:
						Open End Rod <td>Thin Wall Tube <td>Undisturbed Sample <td>Split Spoon Sample <td>Geoprobe <td>Bags Used:</td> </td></td></td></td>	Thin Wall Tube <td>Undisturbed Sample <td>Split Spoon Sample <td>Geoprobe <td>Bags Used:</td> </td></td></td>	Undisturbed Sample <td>Split Spoon Sample <td>Geoprobe <td>Bags Used:</td> </td></td>	Split Spoon Sample <td>Geoprobe <td>Bags Used:</td> </td>	Geoprobe <td>Bags Used:</td>	Bags Used:
											Other Notes:
											BORING NO.

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.

JTA-006

Page 1 of 1

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	S. Buckelhammer
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	1/16
DRILLER	Zach Whistler	DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Rig Model	Drill Diameter					Field Test								
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength					
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)														
0	0																		
	1																		
	3		3	SW	Loose med-brown well graded SAND w/ GRAVEL Fine to coarse sand, gravel < 2" Rounded to sub round. Moist Cobbles 1-4", sub-rounded														
	6			SM															
	10																		
	13																		
	15																		
	20		20	CL	(Peschel meter) Hard to very st. pp. Red gray to light brown LEAN CLAY. Dry to moist. Very few med sand.														
	21																		
	25																		

Water Level Data			Depth in feet to:			Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	□	Riser Pipe	Max Depth: _____		
						T	Thin Wall Tube	□	Screen	Bags Used: _____		
						U	Undisturbed Sample	□	Filter Sand	Other Notes: _____		
						S	Split Spoon Sample	□	Cuttings			
						G	Geoprobe	□	Grout			
								□	Concrete			
								□	Bentonite Seal			
Field Tests			Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			BORING NO.			
			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High						

Form 2001 USCS pl NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO. JTA-007

Page 1 of 2

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whistler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breeyn Greer
 FIELD REP.: Zach Whistler
 DATE STARTED: 01/17/2025
 DATE FINISHED: 01/17/2025

Elevation: _____ ft Datum: _____ Boring Location: JTA-007 Rig Make: Tomsonic 1500 R Drill Diameter: _____ in

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test					
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength		
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines					
0	0	<u>JTA007-N-5000-01172025</u>		<u>ML</u>	<u>loose dark brown, sandy silt w/ clay, most some subrounded to sub angular pebbles</u>											
	1	<u>JTA007-N-5001-01172025</u>														
	3	<u>JTA007-N-5003</u>														
	3	<u>JTA007-N-5003-01172025</u>														
5	6	<u>JTA007-N-5006-01172025</u>														
7.5			7.5		<u>Wire debris "fill"</u>											
				<u>SW-SM</u>	<u>Loose, brown, well graded sand w/ gravel, med-coarse sand, gravels < 2" round to sub round, most</u>											
10	10	<u>007-N-5010-01172025</u>														
	13	<u>JTA007-N-5013-01172025</u>			<u>Few cobbles</u>											
15			14		<u>ATD</u>											
				<u>ML</u>	<u>Very stiff, low plasticity, silt, wet,</u>											
25					<u>Very few pebbles, very few med sand</u>											

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to:		
			Bottom of Casing	Bottom of Hole	Water
<u>01/17</u>				<u>35</u>	<u>14</u>

Sample ID	Well Diagram
O Open End Rod	<input type="checkbox"/> Riser Pipe
T Thin Wall Tube	<input type="checkbox"/> Screen
U Undisturbed Sample	<input type="checkbox"/> Filter Sand
S Split Spoon Sample	<input type="checkbox"/> Cuttings
G Geoprobe	<input type="checkbox"/> Grout
	<input type="checkbox"/> Concrete
	<input type="checkbox"/> Bentonite Seal

Summary
Max Depth: <u>35</u>
Bags Used: <u>14</u>
Other Notes:

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whistler

H&A FILE NO. 0209800-001
 PROJECT MGR. Breeyn Greer
 FIELD REP. Zach Whistler
 DATE STARTED 01/17/2015
 DATE FINISHED 01/17/2015

Elevation ft	Datum	Boring Location	Rig Make	Drill Diameter					Field Test								
				Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength					
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines						
<u>25</u>					<u>ML</u>	<u>Very few med sand</u>											
<u>30</u>				<u>30</u>		<u>Basalt, pulverized</u>											
<u>35</u>						<u>End of boring 35'</u>											
<u>40</u>						<u>End of boring</u>											
<u>45</u>																	
<u>50</u>																	

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to:		
			Bottom of Casing	Bottom of Hole	Water
<u>01/17</u>				<u>35</u>	<u>14</u>

Sample ID	Well Diagram
O Open End Rod	Riser Pipe
T Thin Wall Tube	Screen
U Undisturbed Sample	Filter Sand
S Split Spoon Sample	Cuttings
G Geoprobe	Grout
	Concrete
	Bentonite Seal

Summary
 Max Depth: 35
 Bags Used: 14
 Other Notes:

Field Tests
 Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

*NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.

JTA-008

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PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Zach Greer's Jabilon
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	01/17/2025
DRILLER	Zach Whizler	DATE FINISHED	2/1/2025

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test							
						Gravel	Sand	Fines			Dilatancy	Toughness	Plasticity	Strength				
0	0	JTA-008-N-5000-01172025		ML	Loose, dark brown, silt w/ sand few sub angular pebbles, very few sub angular pebbles, moist													
	1	JTA-008-N-5001-01172025																
	3	JTA-008-N-5003-01172025	3	SW-SM	dry, well graded sand w/ silt & gravel, med - coarse sand & sub angular pebbles													
	6	JTA-008-N-5006-01172025																
	17	JTA-008-N-5017-01172025																
			18	ML	ATD 17.5 very stiff, low plasticity silt, wet w/ med sand Bottom of hole 20'													

Water Level Data			Depth in feet to:			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Max Depth:	
				20	17.5	T	Thin Wall Tube	<input type="checkbox"/>	Screen	Bags Used:	
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	Other Notes:	
						S	Split Spoon Sample	<input type="checkbox"/>	Cuttings		
						G	Geoprobe	<input type="checkbox"/>	Grout		
								<input type="checkbox"/>	Concrete		
								<input type="checkbox"/>	Bentonite Seal		

Field Tests: Dilatancy: R - Rapid S - Slow N - None
Toughness: L - Low M - Medium H - High
Plasticity: N - Nonplastic L - Low M - Medium H - High
Dry Strength: N - None L - Low M - Medium H - High V - Very High

NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

BORING NO. JTA-008

TEST BORING REPORT

BORING NO. 31A-009

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PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whittle

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breyen Greer
 FIELD REP.: Zach Whittle
 DATE STARTED: 01/17/2025
 DATE FINISHED: 01/17/2025

Elevation: ft Datum: Boring Location: 31A-009 Rig Make: 1000015000 Drill Diameter: 4 in

Depth (ft.)	Sample Depth (ft.)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test				
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength					
0	1	JTA-009-N-5001-01172025		ML	Dark brown, loose, silt w/ sand, some subrounded pebbles, moist															
	3	JTA-009-N-5003-01172025	3	CH	Dark brown, Fat clay w/ sand, some subrounded pebbles, moist															
5	6	JTA-009-N-5006-01172025	6.5	SM	Well graded sand w/ gravel fine to coarse sand, many subrounded to subangular pebbles, few cobbles subangular, dry															
10	10	JTA-009-N-5010-01172025	9	ML	Brown, very stiff, silt w/ fine sand, dry															
15	15	JTA-009-N-5015-01172025																		
20	20	JTA-009-N-5020-01172025	18	ML	Brown, very stiff, sandy silt w/ fine to medium sand, dry sandy lean clay, dry															
25					Few subrounded cobbles															

Water Level Data				Sample ID		Well Diagram		Summary					
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water	Open End Rod <td>Thin Wall Tube <td>Undisturbed Sample <td>Split Spoon Sample <td>Geoprobe <td></td> <td></td> <td></td> </td></td></td></td>	Thin Wall Tube <td>Undisturbed Sample <td>Split Spoon Sample <td>Geoprobe <td></td> <td></td> <td></td> </td></td></td>	Undisturbed Sample <td>Split Spoon Sample <td>Geoprobe <td></td> <td></td> <td></td> </td></td>	Split Spoon Sample <td>Geoprobe <td></td> <td></td> <td></td> </td>	Geoprobe <td></td> <td></td> <td></td>			

Field Tests: Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.

JTA-009

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PROJECT Geiger Field PFAS Support
 LOCATION Spokane International Airport
 CLIENT Spokane International Airport
 CONTRACTOR Yellow Jacket Drilling
 DRILLER Zach Whistler

H&A FILE NO. 0209800-001
 PROJECT MGR. Breelyn Greer
 FIELD REP. Zach Whistler
 DATE STARTED 01/17/25
 DATE FINISHED 01/17/25

Elevation		Datum	Boring Location	Rig Make	Drill Diameter						Field Test			
ft					Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength	
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)									
25.8				ML	Few subangular cobbles									
			26	ML	Sandy silt									
					light brown stiff silt w/ sand, DM									
			28	ML	Dark brown (silt), iron stained w/ few pebbles, DM									
30	30	JTA-009-N-S030-01 (72025)												
			31		Basalt w/ silt lenses Pulverized basalt & lean clay w/ sand, DM									
35					End of boring 35'									
40														
45														
50														

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to:		
			Bottom of Casing	Bottom of Hole	Water

Sample ID

O	Open End Rod
T	Thin Wall Tube
U	Undisturbed Sample
S	Split Spoon Sample
G	Geoprobe

Well Diagram

<input type="checkbox"/>	Riser Pipe
<input type="checkbox"/>	Screen
<input type="checkbox"/>	Filter Sand
<input type="checkbox"/>	Cuttings
<input type="checkbox"/>	Grout
<input type="checkbox"/>	Concrete
<input type="checkbox"/>	Bentonite Seal

Summary

Max Depth: _____
 Bags Used: _____
 Other Notes: _____

BORING NO.

Field Tests

Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High

Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whistler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breeyn Greer
 FIELD REP.: [Signature]
 DATE STARTED: 1/18/25
 DATE FINISHED:

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test								
						% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0	0	RT-003-N-5000-01172025		SM	Well graded sand w/ gravel. Rounded gravel, black in color. "FILL"														
	1	RT-003-N-5001-01172025		ML	Dark brown, silt gravel, muscovite present, sub rounded gravel														
	3	RT-003-N-5003-01172025	4																
	3	RT-003-FD-5003-01172025		SW															
5	6	RT-003-N-5006-01172025		SM	brown, well graded FS and w/ gravel sub rounded to sub angular, moist														
			9																
10	10	RT-003-N-5010-01172025		ML	Very stiff / Sandy silt, brown med sand grades to very stiff silt w/ < 5% sand														
15	15	RT-003-N-5015-01172025	15	SW	Well graded sand w/ gravel rounded to sub rounded gravel, moist dark brown														
			18																
20	20	RT-003-N-5020-01172025		ML	brown, very stiff silt w/ F sand dry														
25																			

Water Level Data			Depth in feet to:			Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Max Depth: _____			
						T	Thin Wall Tube	<input type="checkbox"/>	Screen	Bags Used: _____			
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	Other Notes: _____			
						S	Split Spoon Sample	<input type="checkbox"/>	Cuttings				
						G	Geoprobe	<input type="checkbox"/>	Grout				
Field Tests			Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Concrete			BORING NO. _____	
			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High			Bentonite Seal				

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Tech Whistler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breeyn Greer
 FIELD REP.: Tech Whistler
 DATE STARTED: 01/17/2015
 DATE FINISHED: 01/17/2015

Elevation		Datum	Boring Location		Rig Make	Drill Diameter						Field Test			
Depth (ft.)	Sample Depth (ft.)		Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
25				ML	stiff silt, w/ moderate moist dry at 26'										
30	30				Basalt, Pulverized, some "cores" of basalt, dry										
35					End of boring 35'										

Water Level Data

Date	Time	Elapsed Time (hr.)	Depth in feet to:		
			Bottom of Casing	Bottom of Hole	Water
				35	

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Max Depth: _____
 Bags Used: _____
 Other Notes: _____

Field Tests

Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Bregyn Greer
CLIENT	Spokane International Airport	FIELD REP.	JSC + LWP
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	1/20/25
DRILLER		DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter						Field Test								
					Gravel	Sand	Fines			Dilatancy	Toughness	Plasticity	Strength						
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines				
0825	0	RTA-002-N-5000-01202025	0	SP	Mudst; coarse sand, Medium gravel; 10yr-313, dark brown. Cobbles at top.					10		85							
0837	1	RTA-002-N-5001-01202025																	
0844	3	RTA-002-N-5003-01202025																	
0901	6	RTA-002-N-5006-01202025			3 in of silt at 5 ft														
	7			SPSM	Same as above, w/ 20% gravel					20		85							
0909	10	RTA-002-N-5009-01202025			Large black cobbles at 10 ft. Wet at 10 ft														
					6 in of silt at 12 ft. Assuming artificial.														
0923	15	RTA-002-N-5015-01202025			Vadose at 15 ft.														
	20	RTA-002-N-5020-01202025			EOB at 20 ft. 15 ft. Large black cobbles.														

1
2
3
4
5
6

Handwritten scribble

Water Level Data						Sample ID		Well Diagram				Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth: _____				BAGS USED: _____			
			Bottom of Casing	Bottom of Hole	Water			Other Notes: _____				BORING NO. _____			
Field Tests		Dilatancy: R - Rapid S - Slow N - None		Plasticity: N - Nonplastic L - Low M - Medium H - High		Toughness: L - Low M - Medium H - High		Dry Strength: N - None L - Low M - Medium H - High V - Very High		*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.					



Log of Soil Boring: RTA-001

Client/Project: Geiger Field AFAS Support GSI Job No.: _____
 Location: _____ Date Started: _____ Page: _____ of _____
 Driller: _____ Date Finished: _____ Logger: SEC
 Method/Rig: _____ Depth to GW (ft): _____
 Borehole Diameter: _____ Total Depth (ft): _____

Depth (ft bgs)	Lab Sample	Blows / 6 in.	Water Level/ Moisture	PID (ppm)	Recovery	USCS	Soil Description	Sample #/Inch	Notes
							Surface Conditions: <u>Grass</u> SOIL TYPE (USCS Symbol): color, moisture content, odor presence (optional), other descriptors: plasticity, hardness/consistency, distribution, grain size, geologic features.		
0						SM	10YR 3/6, dark yellowish brown. Moist,		1053
1	1						Silt w/ 30% fine sand. Non-plastic,		1105
2							Soft.		
3	3					ML	Same color. Moist silt. Trace		1110
4						SP	Small gravel. Trace fine sand. Low		
5							Plasticity.		
6	6						Medium to coarse sand w/ gravel		1125
7							60% sand, 40% gravel. Primarily		
8							10YR 4/2 dark greyish brown, some		
9							grey. dry. 6 inches of grey at		1131
10	10						7 ft.		Dup-01205
11									
12	12					SP-SM	Wet. Same sand as above, with reddish		1200
13							silt. 7.5YR 6/8. Vadose.		
14									
15									
16						ML	Low plasticity, fines. solid core 15-20.		
17							hard. Wet. Trace sand, gravel.		
18							2.5Y 7/4 pale brown.		
19									
20							ECB at 20 ft bgs.		

MOISTURE: D=DRY, M=MOIST, W=WET PLASTICITY OF CLAY: L=LOW, M=MEDIUM, H=HIGH, N=NON-PLASTIC FIELD-ESTIMATED %: T=TRACE
 HARDNESS/CONSISTENCY (FINE GRAINED SEDIMENTS ONLY): VS=VERY SOFT, S=SOFT, F=FIRM, H=HARD, VH=VERY HARD

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	1/20/25
DRILLER		DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in									
						Gravel	Sand		Field Test						
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		PDW-002-N-14:17 SC00-01202025	0	ML	Grass on surface. Silt with small gravel. Moist non-plastic. 2.54 3/3, dark blue brown.						80				
		PDW-002-N-SC01-14:15 - 01202025	4	SP	Well graded sand with gravel. Coarse sand, small gravel. Moist . Moist. Dark blue brown.	65		80			5				
5		PDW-002-N-SC05-14:25 - 01202025													
		PDW-002-N-SC06-14:30 - 01202025													
		PDW-002-N-SC10-14:40 - 01202025	8	ML	Silt with small gravel. Moist. 6YR 4/3 reddish brown. Non-plastic. Hard.						80				
10															
		PDW-002-N-SC15-14:45 - 01202025	15	ML	Color change to 4YR 3/1, very dark grey.										
15															
		PDW-002-N-SC20-14:50 - 01202025													
		PDW-002-N-SC24-15:00 - 01202025													
20															
25															

Yellow sand outside core at 25 ft

Water Level Data			Sample ID		Well Diagram		Summary			
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/> Riser Pipe	Max Depth:	
						T	Thin Wall Tube	<input type="checkbox"/> Screen	Bags Used:	
						U	Undisturbed Sample	<input type="checkbox"/> Filter Sand	Other Notes:	
						S	Split Spoon Sample	<input type="checkbox"/> Cuttings		
						G	Geoprobe	<input type="checkbox"/> Grout		
								<input type="checkbox"/> Concrete	BORING NO.	
								<input type="checkbox"/> Bentonite Seal		
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High		
		Toughness: L - Low M - Medium H - High								
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.										
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.										

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Brecyn Greer
CLIENT	Spokane International Airport	FIELD REP.	
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter					Field Test			
					Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine			
30		PDW-02-N 50-35	29	SM	Silt softens. Wet from 30-40.								
			32	ML	29-31 M: silty sand w/ gravel. Wet. Coarse sand. Dark brown.	25	70			5			
35					Wet to 6 inches at 35 ft	30.00				60			
					Wet grey silt. Hard. With medium gravel. Trace coarse sand.								
40					<u>EOR at 40</u>								
45													
50													
55													

Water Level Data					Sample ID		Well Diagram			Summary			
Date	Time	Elapsed Time (min)	Depth in feet to:		O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth: _____ Bags Used: _____ Other Notes: _____	BORING NO.					
			Bottom of Casing	Bottom of Hole								Water	
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High		
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.													

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breyer Greer
CLIENT	Spokane International Airport	FIELD REP.	
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation		ft Datum		Boring Location		Rig Make		Drill Diameter					in	
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	Field Test						
0	0	PDW-001-N-5000 1620	0		Fill + Concrete									
3	3	PDW-001-N-5003 1635												
5	6	PDW-001-N-5006-002025 1645	5 6	ML SP-SM	Wet silt, Hard, 30% Large and silt gravel. WYR 711 light gray with SYR 518 yellowish red spots									
10	10	PDW-001-N-5010-012025 16:50			ML coarse sand w/ small to large gravel, trace fines. mostly WYR 463 with some WYR 518. (Brown w/ yellow brown) slightly moist. some light red stones. 2.5 YR 7/1.									
15	15	PDW-001-N-5015-012025 16:55	15	ML	Silt with sand and gravel. Soft. Low to medium plasticity. Very moist. Fines are light olive brown, sand and gravel is 2.5 YR 7/1 reddish yellow. Higher silt % with depth. Gr 20-23.									
20	20	PDW-001-N-5020-012025 17:00												
25			23	CH										

Water Level Data					Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:		O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth:		BORING NO. _____		
			Bottom of Casing	Bottom of Hole			Water	Bags Used:			
Field Tests					Plasticity:						
Dilatancy: R - Rapid S - Slow N - None					N - Nonplastic L - Low M - Medium H - High						
Toughness: L - Low M - Medium H - High					Dry Strength: N - None L - Low M - Medium H - High V - Very High						

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

TEST BORING REPORT

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Brecyn Greer
CLIENT	Spokane International Airport	FIELD REP.	
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test				
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength	
30		<i>PDW-001-N-5030 - 01202025</i>	<i>30</i>	<i>ML</i>	<i>23-30</i> <i>High plasticity fines.</i> <i>Soft, moist. Olive.</i>	<i>5</i>	<i>5</i>								
35		<i>PDW-001-N-5034 - 01202025</i>	<i>35</i>	<i>GP-GM</i>	<i>Yellowish red staining,</i> <i>with some large cobbles.</i>										
40					<i>Sandy silt. Very moist,</i> <i>Leamy a film. Nonplastic.</i> <i>Medium firm. silt is grey, sand is white.</i> <i>Variable at 34.</i>										
15					<i>Fractured cobbles, wet.</i> <i>10-15% silt silt.</i> <i>Black.</i>										
20															
25					<i>EOB at 40.</i>										

Water Level Data			Sample ID			Well Diagram			Summary											
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water															
Field Tests			Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High			BORING NO.					
<p>*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.</p> <p>NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.</p>																				

TEST BORING REPORT

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Zach Castillo
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	01/21/2025
DRILLER	Zach Whitaker	DATE FINISHED	

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test							
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	0	FIT-001-N-5000-01212025		SW	brn, loose, well graded sand w/ silt & gravel, sub rounded to sub angular cobbles few													
	1	FIT-001-N-5001-01212025																
	3	FIT-001-N-5003-01212025																
	3	FIT-001-FD-5003-01212025			Some subround cobbles													
					Wet													
5	5	FIT-001-N-5005-01212025	8.5	SW	ATD 7' Large cobbles well graded sand w/ gravel, dry base, brown													
10			10	ML	brown, loose to med stiff silt w/ sand,													
15			17	ML	silt, very stiff, brown													
20					Bottom of hole 20'													
					Did 10' runs here													
25																		

Water Level Data					Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:		O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth: _____		BAGS USED: _____		
			Bottom of Casing	Bottom of Hole			Water		Other Notes: _____		BORING NO. _____

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

ED show



TEST BORING REPORT

BORING NO.
FIT-002
Page 1 of 1

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER: Zach Whistler

H&A FILE NO.: 0209800-001
 PROJECT MGR.: Breyn Greer
 FIELD REP.: Zach Castillo JCS
 DATE STARTED: Sage Clay (GSI)
 DATE FINISHED:

Elevation		ft	Datum	Boring Location		Rig Make	Drill Diameter												
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Rig Make	Drill Diameter												
							% Coarse Gravel	% Fine Gravel	% Coarse Sand	% Medium Sand	% Fine Sand	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	0	FIT-002-N-5000-01212025		GWGM	Well graded gravel w/ silt & sand gray brown, dry, loose Sub angular - sub rounded gravels & few cobbles														
	1	FIT-002-N-5001-01212025																	
	3	FIT-002-N-5003-01212025 0730 0735	3	SWSM	Some cobbles sub angular to sub round Well graded sand w silt & gravel dark brown, loose														
	6	FIT-002-N-5006-01212025		ML	Sandy silt, light brown, w/ fine sand, loose, low plasticity														
	10	FIT-002-N-5010-01212025																	
	15	FIT-002-N-5010-01212025	15	SW	ATD 15.5' Coarse sand w/ gravel, gray, wet few cobbles														
	20				Bottom of hole 20'														

Water Level Data				Sample ID		Well Diagram		Summary					
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water								
				20	15.5								

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	02098/00-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breevn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in												
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test		
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	0	1540	0	SM	Silty sand. Some gravel. Roots. Light Brown. Frozen. Wet. Medium grained sand. Trace silt. Dark brown. should be below.													
4	1	1545	2	NR														
5	6	1550	8	SP.	Basalt. Wet.													

3
4
5
TMA
dup

Water Level Data						Sample ID		Well Diagram			Summary								
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	U Undisturbed Sample	S Split Spoon Sample	G Geoprobe	□ Riser Pipe	▣ Screen	□ Filter Sand	⊠ Cuttings	■ Grout	▲ Concrete	▨ Bentonite Seal	Max Depth:	_____
			Bottom of Casing	Bottom of Hole	Water													Other Notes:	_____
Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High *NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. Form 2001 USCS p1 NOTE: Soil Identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																			

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER

H&A FILE NO. 0209800-001
PROJECT MGR. Breyln Greer
FIELD REP. Sage Clay (GSI)
DATE STARTED
DATE FINISHED

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test		
						Gravel % Coarse % Fine	Sand % Coarse % Medium % Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	0-1	FIT-004-N-5000 N01 -01212025	0	SP	Coarse sand with trace silt. 20% small to large gravel. Light brown 1-40 then grey with light brown 10-17. Most silt deposits near 15 ft.								
	3	FIT-004-N-5003 N10 -01212025	← FD										
	6	FIT-004-N-5006 N15 -01212025											
	10	FIT-004-N-5010 N20 -01212025											
	15	FIT-004-N-5015 N25 -01212025											
	16	FIT-004-N-5016 N30 -01212025		17		Basalt, pulverized by sunbore.							
	20	FD at 11:40			ECB 20 ft								

Water Level Data				Sample ID		Well Diagram		Summary											
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	□	▣	□	□	□	□	□	□	
			Bottom of Casing	Bottom of Hole	Water														□
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High			Max Depth: _____ Bags Used: _____ Other Notes: _____					
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.										BORING NO.									
Form 2001 USCS p1										NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.									

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	1/21/25
DRILLER		DATE FINISHED	1/21/25

Elevation		Datum	Boring Location		Rig Make	Drill Diameter					in				
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0		FIT-003-N-5000 01212025 0935	0	SP	Cobbles and silt at surface. Then coarse sand with small rounded gravel, some large cobbles. Sand predominantly light brown, with reddish brown. Moist. SP.										
		FIT-003-N-5001 0910 01212025													
		FIT-003-N-5003 0945 01212025													
		FIT-003-N-5006 0950 01212025													
10		FIT-003-N-5010 0955 01212025	10	ML	Soft, light brown silt with trace fine sand. nonplastic. Moist.										
			12		Basalt with grey fines. Solid core										
		FIT-003-N-5015 1000 01212025	14		Coarse sand with gravel, same as 0-10										
20					EOB at 15 ft Ended boring due to finding basalt.										
25															

Water Level Data					Sample ID		Well Diagram		Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Max Depth:		
			Bottom of Casing	Bottom of Hole	Water	T	Thin Wall Tube	<input type="checkbox"/>	Screen	Bags Used:		
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	Other Notes:		
						S	Split Spoon Sample	<input type="checkbox"/>	Cuttings			
						G	Geoprobe	<input type="checkbox"/>	Grout			
								<input type="checkbox"/>	Concrete	BORING NO.		
								<input type="checkbox"/>	Bentonite Seal			
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High	
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.												
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.												

TEST BORING REPORT

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breevn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in									
						Gravel					Sand				
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0			0	NR	No recovery. Water.										
5	6	1505	5	SM	Silty sand, wet - moist. Brown, medium grained. 20% fines.										
10			9		Basalt at 9 ft EOB at 10										

Water Level Data						Sample ID		Well Diagram			Summary									
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water															

Field Tests	Dilatancy: R - Rapid S - Slow N - None	Plasticity: N - Nonplastic L - Low M - Medium H - High
	Toughness: L - Low M - Medium H - High	Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in						Field Test		
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines			
0	0													
	1				Moist. 15% fines. Slightly plastic. Soft. Medium grained. Brown									
	3				Morby, fine grained sand. Light-brown.									
5	6				40% sand, 40% gravel. 20% sub-silt deposits. Dark brown with dark orange spots. gravel is small to medium. silt is Per 2 inch hard, nonplastic.									
10	10				ATD Wet at 13 ft									
15	15				FCOB at 15 ft									
20	20													
25														

Water Level Data			Sample ID		Well Diagram		Summary		
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth: _____	Bags Used: _____	
							Other Notes: _____		
							BORING NO. _____		
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High	
		Dry Strength: N - None L - Low M - Medium H - High V - Very High							
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.									
Form 2001 USCS p1 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.									

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in									
						Gravel	Sand		Field Test						
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	0	1405	0	ML	Silt w/ trace medium grained sand. Saturated. Saturated. Dark brown. Sample soft.										
	3	1410	4	SP	Very coarse, dark brown sand. Roots.										
	6	1415 FD: 1435	7		Basalt. Pulverized by rig. wet.										
10					ECB at 10 ft hrs										

Water Level Data				Sample ID		Well Diagram		Summary													
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:	
			Bottom of Casing	Bottom of Hole	Water																

Field Tests
 Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

***NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.**
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Elevation		Datum	Boring Location		Rig Make	Drill Diameter						Field Test			
Depth (ft.)	Sample Depth (ft.)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand		Fines		Dilatancy	Toughness	Plasticity	Strength
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines				
0	0	0745	0	SM	Dark yellowish brown silty sand.										
	1	0750			NR 1-2. Moist. Medium										
	3	0755	2.5	GM	graded. 70% medium gravel.										
	6	0800	7.5	SM	Medium to large gravel w/ 30% silt. Gravel is white, silt is dark yellowish brown. 5-6 NR.										
	10	0805	11	ML	Brown, moist silty sand. Medium graded. Non plastic. Soft. Large basalt cobbles at 9 ft, 2m thick.										
	15	0810	17.5	GM	low - Medium plasticity fines. Multicolored: white, yellow, brown. Trace small gravel.										
	17	0815			Pulverized basalt? Dark brown silt and medium sand. Mostly gravel clay.										
	25	0820			EOB at 20ft, hit basalt.										

Water Level Data						Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	Open End Rod	□	Riser Pipe	Max Depth:	
			Bottom of Casing	Bottom of Hole	Water	T	Thin Wall Tube	□	Screen	Bags Used:	
						U	Undisturbed Sample	□	Filter Sand	Other Notes:	
						S	Split Spoon Sample	□	Cuttings		
						G	Geoprobe	□	Grout		
								□	Concrete		
								□	Bentonite Seal		

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test							
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	0	0845	0	GP	Hit basalt at 6 inches. Surface silt above, 20% Dark grey, very fine grained sand, 20%. Not very moist. Hugs in EOB at 5 ft basalt.													
5																		
10																		
15																		
20																		
25																		

Water Level Data						Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	<input type="checkbox"/> Riser Pipe	Max Depth:	Summary		
			Bottom of Casing	Bottom of Hole	Water			<input type="checkbox"/> Screen				Bags Used:
						U Undisturbed Sample	<input type="checkbox"/> Filter Sand		Other Notes:			
						S Split Spoon Sample	<input type="checkbox"/> Cuttings					
						G Geoprobe	<input type="checkbox"/> Grout		BORING NO.			
							<input type="checkbox"/> Concrete					
							<input type="checkbox"/> Bentonite Seal					

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER

H&A FILE NO. 0209800-001
PROJECT MGR. Breevn Greer
FIELD REP. Sage Clay (GSI)
DATE STARTED
DATE FINISHED

Elevation		ft	Datum	Boring Location		Rig Make	Drill Diameter					in			
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0 9:10 1 9:15	1				GP	Medium to coarse sand. Saturated from the top. Dark brown. trace small gravel.									
9:20 9:50	3														
5 09:25	6														
09:30 10	10			10	GP	Poorly graded gravel. Ugs. Basalt. Wet. Pulverized by rig.									
09:35 15	15														
20															
25															

Water Level Data						Sample ID		Well Diagram				Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	□	□	□	□	□
			Bottom of Casing	Bottom of Hole	Water										
															Max Depth: _____ Bags Used: _____ Other Notes: _____
														BORING NO.	

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	
DRILLER		DATE FINISHED	

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter						Field Test				
						Gravel	Sand		Fines			Dilatancy	Toughness	Plasticity	Strength	
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines					
0	0	1010	0	ML	Silty, mts. Slightly plastic. Brown.											
	1	1015	1	SM	Silty sand, wet. Fine grained. Reddish brown.											
	3	1020														
	6	1025	7.5	SP	Coarse wet sand, 8% silt. Dark Brown.											
	10	1030														
	13		13	SM	Wet brown silty sand, sand is fine to medium.											
	14	1035	15	GP	Nonplastic, 40% silt. Pulverized basalt, wet, black cobbles, sharp, grey when dry.											
					ECB at 20PL											

Water Level Data						Sample ID	Well Diagram	Summary
Date	Time	Elapsed Time (hr.)	Depth in feet to:					
			Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	Max Depth:
						T	Thin Wall Tube	Bags Used:
						U	Undisturbed Sample	Other Notes:
						S	Split Spoon Sample	
						G	Geoprobe	

Field Tests	Dilatancy: R - Rapid S - Slow N - None	Plasticity: N - Nonplastic L - Low M - Medium H - High
	Toughness: L - Low M - Medium H - High	Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breynn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay (GSI)
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	12/12/25
DRILLER		DATE FINISHED	12/12/25

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test					
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength		
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines					
11.5 11.25 12.5	0 1.0 3		0	SM	Dark brown silty sand, med. to fine grained, 30% silt.											
		CLTGS	3	GP	fractured basalt, wet, no frags											
Eob 5-ft logs.																

Water Level Data					Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Max Depth:
			Bottom of Casing	Bottom of Hole	Water						Bags Used:
											Other Notes:
											BORING NO.

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.

Form 2001 USCS pl NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.
SRA-001

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER

H&A FILE NO. 0209800-001
PROJECT MGR. Breevn Greer
FIELD REP. Sage Clay (GSI)
DATE STARTED 11/2/25
DATE FINISHED 11/2/25

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	Gravel		Sand			Field Test								
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0	0																		
	1																		
	3																		
	6																		

GW TOB

2.5 ML

4 SM

6.5 GP

Brown silty sand, fine gravel.
 Small gravel. Moist, nonplastic.
 Wet, low plasticity fines,
 with trace small gravel
 and coarse sand. Medium
 firm.
 Same as top, wet.

Fractured Basalt. Coated with
 Fines of the same color, grey.
 Dry.
 EOB 10 ft logs

Water Level Data

Depth in feet to:

Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water

Sample ID

- O Open End Rod
- T Thin Wall Tube
- U Undisturbed Sample
- S Split Spoon Sample
- G Geoprobe

Well Diagram

- Riser Pipe
- Screen
- Filter Sand
- Cuttings
- Grout
- Concrete
- Bentonite Seal

Summary

Max Depth: _____
 Bags Used: _____
 Other Notes: _____

BORING NO.

Field Tests
 Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
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TEST BORING REPORT

BORING NO.

HFH-001

Page 1 of 1

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER

H&A FILE NO. 0209800-001
PROJECT MGR. Breev'n Greer
FIELD REP. Sage Clay (GSI)
DATE STARTED 11/21/25
DATE FINISHED

Elevation ft Datum Boring Location Rig Make Drill Diameter in

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand			Field Test				
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	0	1445 1450	0	SPSM	Medium to fine grained sand with small gravel and solid flt deposits. Not moist. Light brown.													
3	3	1455																
5	5	1525																
6	6	1500 GWTD																
7	7	HPA-C06 : 1505	7	GP	Wet. Fractured basalt with silty sand, medium grained, non-plastic. Silty sand is yellowish red.													
10	10		10	GP	Fractured basalt, wet.													
15	15				ECB 15 ft bgs													
20	20																	
25	25																	

Water Level Data			Depth in feet to:			Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Max Depth:	Bags Used:	
						T	Thin Wall Tube	<input type="checkbox"/>	Screen	Other Notes:		
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	BORING NO.		
						S	Split Spoon Sample	<input type="checkbox"/>	Cuttings			
						S	Split Spoon Sample	<input type="checkbox"/>	Grout			
						G	Geoprobe	<input type="checkbox"/>	Concrete			
								<input type="checkbox"/>	Bentonite Seal			

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER Zach W. Her

H&A FILE NO. 0209800-001
PROJECT MGR. Breelyn Greer
FIELD REP. Zach W. Her
DATE STARTED 01/23/2005
DATE FINISHED 01/23/2005

Elevation		ft	Datum	Boring Location		HFH	Rig Make	Terson & ISOCC	Drill Diameter		in					
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand		Field Test			
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	0.5'	HFH-002-N-50005-0132005	0.5		in 4" Pavement											
	1	HFH-002-N-5001-0132005	1.5	ML	Dark brown, loose, silt w/ sand & gravel, some pebbles sub angular											
	1	HFH-002-FD-5001-0132005		SM		Silty sand w/ gravel, Brown loose, moist, some sub rounded cobbles										
	3	HFH-002-N-5001-0132005		SW/SM												
			3.5													
			4	ML	Well graded sand w/ silt & gravel, many sub rounded cobbles											
	6	HFH-002-N-5003-0132005	5	ML	light brown silt w/ sand, dry loose, few pebbles sub angular											
					Black, Gravelly silt, loose, dry											
					change to brown, gravelly silt at 6' - 7.5' loose, dry											
			10		@ 7.5 color change to gray gravelly silt, loose, dry											
					@ 8. color change to dark brown Moist											
					Brown med-coarse sand w/ silt & gravel, well graded											
			11.5	SW/SM	Gravelly silt w/ sand											
			12.5	ML												
					Basalt											
					EOB @ 15'											

Water Level Data						Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	<input type="checkbox"/> Riser Pipe	<input type="checkbox"/> Screen	Max Depth:		Bags Used:	
			Bottom of Casing	Bottom of Hole	Water			U Undisturbed Sample	<input type="checkbox"/> Filter Sand	Other Notes:			
				15	-	S Split Spoon Sample	<input type="checkbox"/> Cuttings	<input type="checkbox"/> Grout					
						G Geoprobe	<input type="checkbox"/> Concrete	<input type="checkbox"/> Bentonite Seal			BORING NO.		
Field Tests		Dilatancy: R - Rapid S - Slow N - None			Plasticity: N - Nonplastic L - Low M - Medium H - High			Toughness: L - Low M - Medium H - High					
		Toughness: L - Low M - Medium H - High			Dry Strength: N - None L - Low M - Medium H - High V - Very High								

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	01/23/25
DRILLER		DATE FINISHED	01/23/25

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in					Field Test			
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines			
0	0.5 1	1550 1555	0	ML	Dark brown low plasticity fines with trace gravel. Moist. Soft.									
5	3 +Dup 6	1601 1630 1605	5	CL	Med to high plas. fines. Grey-brown. Trace gravel.									
10	10 +Dup	1610 1640	7	SPSM	Yellow medium sand. Moist; wet at 10 ft. Small gravel, red and black porous rocks. Basalt schists at 12.5 ft.									
15			15	GP	Basalt, some black fines.									
					<u>EOB at 15 ft</u>									

Water Level Data				Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			<ul style="list-style-type: none"> O Open End Rod T Thin Wall Tube U Undisturbed Sample S Split Spoon Sample G Geoprobe 	<ul style="list-style-type: none"> □ Riser Pipe ▢ Screen ▭ Filter Sand ⊞ Cuttings ⊞ Grout ⊞ Concrete ⊞ Bentonite Seal 	Max Depth:	Bags Used:
			Bottom of Casing	Bottom of Hole	Water				
				15	10				

Field Tests
 Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT: Geiger Field PFAS Support
 LOCATION: Spokane International Airport
 CLIENT: Spokane International Airport
 CONTRACTOR: Yellow Jacket Drilling
 DRILLER:

H&A FILE NO. 0209800-001
 PROJECT MGR. Breevn Greer
 FIELD REP. Page 6/10
 DATE STARTED 1/23/2025
 DATE FINISHED 1/23/2025

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test								
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength					
0	0.5 1.25	1020 1025	0 0.5	SM	Concrete at surface. 6 in. Brown silty sand. Nonplastic. 5% small gravel. Dry.														
5	3.0 + Dup 6	1030 1100 1035		SP	Coarse sand. Dry. Light brown. at 7.5, large gravel 20%														
10	10 + Dup	1040 1110		GP	Broken core. With gray fines. Dry.														
15					EOB 15 ft														
20																			
25																			

Water Level Data						Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Max Depth:
			Bottom of Casing	Bottom of Hole	Water						Bags Used:
											Other Notes:
											BORING NO.

Field Tests: Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Brecyn Greer
CLIENT	Spokane International Airport	FIELD REP.	<i>Sage Clay</i>
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	<i>1/23/25</i>
DRILLER		DATE FINISHED	<i>1/23/25</i>

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in						Field Test			
						Gravel	Sand			Fines			Dilatancy	Toughness	Plasticity
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)										
0	<i>5</i>	<i>1115</i>	<i>0</i>	<i>SP</i>	<i>3-4 inches of pavement at top. Partly graded fine sand, dry, Dark bluish grey.</i>										
	<i>1</i>	<i>1120</i>	<i>2</i>	<i>SP</i>											
	<i>+Dup</i>	<i>1150</i>													
	<i>3</i>	<i>1125</i>													
	<i>6</i>	<i>1130</i>													
	<i>10</i>	<i>1135</i>	<i>12</i>												
					<i>Sand with gravel. Medium gravel, 20%. Large basalt pebbles at 5 ft. Medium sand, coarse from 4-6 ft. Gray-brown.</i>										
					<i>Basalt core.</i>										
					<i>BBB at 15 ft.</i>										

Water Level Data						Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth:	Bags Used:
			Bottom of Casing	Bottom of Hole	Water								

Field Tests	Dilatancy: R - Rapid S - Slow N - None	Plasticity: N - Nonplastic L - Low M - Medium H - High
	Toughness: L - Low M - Medium H - High	Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER

H&A FILE NO. 0209800-001
PROJECT MGR. Breeyn Greer
FIELD REP. Sage Clay
DATE STARTED 1/23/25
DATE FINISHED 1/23/25

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test						
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength			
0	0-5	1220 1225	0	SP	4 inches of pavement. Medium graded sand, moist. Brown												
	3	1230	2	SP	Coarse sand with large gravel 30%. Grayish brown, moist. Turn moist clumps at 6ft.												
	6	1235 1305	8	CL	Medium plasticity fines, soft, with some gravel. Moist. Yellow spots, mostly red-brown												
	12	1240	9	ML													
	12	1245	11	CL													
	12	1245	13	CL	Brown silt, moist, low plasticity. trace redm sand, gravel.												
					Same as above CL.												
					Brown at 13, moist.												
					DOB 15 ft												

Water Level Data						Sample ID		Well Diagram			Summary									
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:
			Bottom of Casing	Bottom of Hole	Water															
Field Tests Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High													BORING NO.							

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Tank Cast No. 128
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	01/24
DRILLER		DATE FINISHED	01/24

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test						
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength		
0	1			SW-SH	Very fine sand w/ silt, dark brown moist, few pebbles subangular												
	3		3	ML	Sandy silt w/ few gravels stiff, moist												
5	6		4.5	SW-SH	Well graded fine-coarse sand w/ gravels, moist some cobbles subangular												
10	10																
15	15		14.5	ML	ATD 14' stiff light brown silt w/ very few pebbles subangular wet												
20	20																
25	20																

EOB @ 25'

Water Level Data			Depth in feet to:			Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Max Depth: _____			
				25	14	T	Thin Wall Tube	<input type="checkbox"/>	Screen	Bags Used: _____			
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	Other Notes: _____			
						S	Split Spoon Sample	<input type="checkbox"/>	Cuttings				
						G	Geoprobe	<input type="checkbox"/>	Grout				
								<input type="checkbox"/>	Concrete				
								<input type="checkbox"/>	Bentonite Seal				

Field Tests	Dilatancy: R - Rapid S - Slow N - None	Plasticity: N - Nonplastic L - Low M - Medium H - High
	Toughness: L - Low M - Medium H - High	Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

CFH-002

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	<i>Zack Cook/Modish</i>
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	<i>02/12/24</i>
DRILLER		DATE FINISHED	<i>02/12/24</i>

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test					
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength	
0	1			ML	<i>Soft w/ v Fine sand, dark brown moist, w/ few pebbles sub angle</i>											
	3		3	SW	<i>Well graded sand, brown, moist</i>											
	6															
	10		10	ML	<i>Gravelly silt, dark brown, moist</i>											
	12		11													
					<i>ATD 12.5'</i>											
			11	ML	<i>Gravelly silt, brown, EOB @ 15'</i>											

Water Level Data			Depth in feet to:			Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	O	Open End Rod	<input type="checkbox"/>	Riser Pipe	Max Depth: _____		
						T	Thin Wall Tube	<input type="checkbox"/>	Screen	Bags Used: _____		
						U	Undisturbed Sample	<input type="checkbox"/>	Filter Sand	Other Notes: _____		
						S	Split Spoon Sample	<input type="checkbox"/>	Cuttings			
						G	Geoprobe	<input type="checkbox"/>	Grout			
								<input type="checkbox"/>	Concrete			
								<input type="checkbox"/>	Bentonite Seal			

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER *Zach Whistler*

H&A FILE NO. 0209800-001
PROJECT MGR. Breelyn Greer
FIELD REP.
DATE STARTED *01/24/25*
DATE FINISHED *01/24/25*

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test						
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength			
0	1 3			<i>SP</i>	<i>loose v fine sand w/ silt, moist, dark brown</i>												
			4.5	<i>GP</i>	<i>Med to coarse sand w/ gravels, moist dark brown</i>												
5	6																
10	4 FD4		10	<i>ML</i>	<i>ATD 9.5' Gravelly silt, gray, w/ cobbles subangular</i>												
15					<i>EOB @ 15'</i>												
20																	
25																	

Water Level Data						Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	<input type="checkbox"/> Riser Pipe	Max Depth: _____		Bags Used: _____	
			Bottom of Casing	Bottom of Hole	Water			<input type="checkbox"/> Screen				
				15	4.5	U Undisturbed Sample	<input checked="" type="checkbox"/> Cuttings	BORING NO.				
					S Split Spoon Sample	<input type="checkbox"/> Grout						
					G Geoprobe	<input checked="" type="checkbox"/> Concrete						
						<input type="checkbox"/> Bentonite Seal						

Field Tests
 Dilatancy: R - Rapid S - Slow N - None
 Toughness: L - Low M - Medium H - High
 Plasticity: N - Nonplastic L - Low M - Medium H - High
 Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breyn Greer
CLIENT	Spokane International Airport	FIELD REP.	Zack Castillo J.S.N
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	01/24/25
DRILLER	Zack Whistler	DATE FINISHED	01/24/25

Elevation	ft	Datum		Boring Location	CFH-004	Rig Make	Tomson 150 cc	Drill Diameter	2	in
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Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand			Field Test				
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	0	CFH-004-N-5000		ML	Dark brown, moist, silt, few pebbles, subrounded, some organics													
	1	CFH-004-N-5001																
	3	CFH-004-N-5003	3	SPSH	poorly graded fine sand w/silt dark brown, moist													
	6		7.5	SPSH	Some cobbles subrounded poorly graded fine sand w/ silt and gravel, dark brown slightly moist													
10	10	CFH-004-N	11	ML	Grayed silt, brown, some subrounded pebbles, moist													
	10	CFH-004-FD																
15					EOB @ 15'													

Water Level Data						Sample ID		Well Diagram			Summary		
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O Open End Rod	T Thin Wall Tube	<input type="checkbox"/> Riser Pipe	Max Depth:	Bags Used:			
			Bottom of Casing	Bottom of Hole	Water			<input type="checkbox"/> Screen					Other Notes:
				15	11	U Undisturbed Sample	<input type="checkbox"/> Filter Sand						
						S Split Spoon Sample	<input type="checkbox"/> Cuttings						
						G Geoprobe	<input type="checkbox"/> Grout						
							<input type="checkbox"/> Concrete						
							<input type="checkbox"/> Bentonite Seal						

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breevn Greer
CLIENT	Spokane International Airport	FIELD REP.	Sage Clay
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	1/24/2011
DRILLER		DATE FINISHED	1/24/2011

Elevation	ft	Datum	Boring Location	Rig Make	Drill Diameter	in
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Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test				
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength					
0	1	1200 1205	0	ML	Low plasticity fill with sand.															
			3	SM	Fine grained sand. Moist. Dark reddish brown. Some large gravel.															
5	3 +DVP	1210 1210			Medium grained silty sand with 40% small gravel. some large cobbles.															
	6	1215																		
10			7	GP	Basalt at 7. EoB at 7.															
15																				
20																				
25																				

Water Level Data						Sample ID		Well Diagram				Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	□	▤	▨	□	□
			Bottom of Casing	Bottom of Hole	Water										

Field Tests	Dilatancy: R - Rapid S - Slow N - None	Plasticity: N - Nonplastic L - Low M - Medium H - High	Toughness: L - Low M - Medium H - High	Dry Strength: N - None L - Low M - Medium H - High V - Very High
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*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER Zach Whistler

H&A FILE NO. 0209800-001
PROJECT MGR. Breevn Greer
FIELD REP. Zach Castillo Jost
DATE STARTED 01/24/25
DATE FINISHED 01/24/25

Elevation ft **Datum** **Boring Location** CFH-006 **Rig Make** Terra Soil 150cc **Drill Diameter** 4 in

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test			
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength				
0	0 1 3	CFH-006-N-5003-01242025 CFH-006-N-5001-01242025 CFH-006-N-5003-01242025	145 150 155	SW SM	Brown, moist, loose med to coarse sand w/ silt some gravels and cobbles sub rounded														
5			4.5		Basalt encountered @ 4.5' EOB @ 5'														
10																			
15																			
20																			
25																			

Water Level Data			Sample ID			Well Diagram			Summary												
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	□	□	□	□	□	□	□	□	□		
			Bottom of Casing	Bottom of Hole	Water	Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample	Geoprobe	Riser Pipe	Screen	Filter Sand	Cuttings	Grout	Concrete	Bentonite Seal	Max Depth:	Bags Used:	Other Notes:	
				5																	

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breeyn Greer
CLIENT	Spokane International Airport	FIELD REP.	<i>Zack Castillo Jr</i>
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	<i>01/24/25</i>
DRILLER	<i>Zack Whistler</i>	DATE FINISHED	<i>01/24/25</i>

Elevation		Datum	Boring Location	Rig Make	Drill Diameter	Field Test										
Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel	Sand	Fines			Dilatancy	Toughness	Plasticity	Strength		
						% Coarse	% Fine	% Coarse	% Medium	% Fine						
0	0	CFH-007-N-5000-01242025		ML	<i>Loose Dark Brown silt w/ sand and few sub angular to sub rounded pebbles most</i>											
	1	CFH-007-N-5001-01242025	1.5	ML		<i>ML stiff Dark Brown silt w/ sand. V. moist</i>										
	3	CFH-007-N-5003-01242025														
5					<i>Basalt encountered @ 4.5'</i>											
					<i>EOB @ 5'</i>											
10																
15																
20																
25																

Water Level Data			Sample ID		Well Diagram		Summary	
Date	Time	Elapsed Time (hr.)	Bottom of Casing	Bottom of Hole	Water	<input type="checkbox"/> Riser Pipe <input type="checkbox"/> Screen <input type="checkbox"/> Filter Sand <input checked="" type="checkbox"/> Cuttings <input type="checkbox"/> Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Seal	Max Depth:	Bags Used:

Field Tests	Dilatancy: R - Rapid S - Slow N - None	Plasticity: N - Nonplastic L - Low M - Medium H - High
	Toughness: L - Low M - Medium H - High	Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.
FMB-002
Page 1 of 1

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Breevn Greer
CLIENT	Spokane International Airport	FIELD REP.	Zach Capitillo, J. Sil
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	01/24/2015
DRILLER	Zach Whistler	DATE FINISHED	01/24/2015

Elevation _____ ft Datum _____ Boring Location **FMB-002** Rig Make **Terra Sany 150cc** Drill Diameter **4** in

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test					
						Gravel	Sand		Fines		Dilatancy	Toughness	Plasticity	Strength		
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines					
0	0.5	FMB-002-N-5005-01242015	0.5	SW-SH	~4" of pavement Sandy silt w/ Gravel, moist, dark brown, loose											
	1	FMB-002-N-5001-01242015	1.5	ML	M. Stiff, dark brown, moist silt w/ some pebbles.											
	3	FMB-002-N-5003-01242015														
5	6	FMB-002-N-5006-01242015	5	ML	Sandy silt w/ gravel, dark brown moist, w/ sub rounded to sub angular cobbles, loose											
10	10	FMB-002-N-5010-01242015	8	ML	Gravelly silt w/ sand & Cobbles sub rounded, loose, moist											
15	13	FMB-002-N-5013-01242015	13.5		Basalt @ 13.5 EOB @ 15'											
20																
25																

Water Level Data				Sample ID		Well Diagram			Summary	
Date	Time	Elapsed Time (hr.)	Depth in feet to:			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Max Depth:	
			Bottom of Casing	Bottom of Hole	Water	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Bags Used:	
				15		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other Notes:	
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	BORING NO.	
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.
FMB-003

Page 1 of 1

PROJECT Geiger Field PFAS Support
LOCATION Spokane International Airport
CLIENT Spokane International Airport
CONTRACTOR Yellow Jacket Drilling
DRILLER Zach Whistler

H&A FILE NO. 0209800-001
PROJECT MGR. Breyv Greer
FIELD REP. Zack Eastwood
DATE STARTED 01/24/25
DATE FINISHED 01/24/25

Elevation ft **Datum** **Boring Location** FMB-003 **Rig Make** Terra Soil 150cc **Drill Diameter** 4 in

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel					Sand					Field Test		
						% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength			
0	0.5'	FMB-003-U-50005-01242025	0.5'	ML	~ 4" of Pavement													
	1	FMB-003-U-5001-01242025		ML	Gravelly silt w/ sand fine grain, brown moist, sub angular gravels													
	3	FMB-003-U-5003-01242025	2.5'	ML	Dark brown, moist stiff silt w/ sand, few pebbles sub rounded													
	1	FMB-003-FD-5001-01242025			less moist at 4.5'													
5	6	FMB-003-U-5006-01242025	6	ML	Gravelly silt w/ sub rounded cobbles, dark brown, moist													
10	10	FMB-003-U-5010-01242025																
		FMB-003-FD-5010-01242025																
15	15	FMB-003-U-5015-01242025		ML	15.5' ATD Saturated Gravelly silt w/ sand, many sub angular cobbles of Basalt													
20					EOB @ 20'													
25																		

Water Level Data						Sample ID		Well Diagram				Summary			
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	□	□	□	□	□
			Bottom of Casing	Bottom of Hole	Water	Open End Rod	Thin Wall Tube	Undisturbed Sample	Split Spoon Sample	Geoprobe	Riser Pipe	Screen	Filter Sand	Cuttings	Grout
				20	15.5										

Field Tests Dilatancy: R - Rapid S - Slow N - None Plasticity: N - Nonplastic L - Low M - Medium H - High
 Toughness: L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size.
 NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

TEST BORING REPORT

BORING NO.

FMB-001

Page *1* of *1*

PROJECT	Geiger Field PFAS Support	H&A FILE NO.	0209800-001
LOCATION	Spokane International Airport	PROJECT MGR.	Brecyn Greer
CLIENT	Spokane International Airport	FIELD REP.	<i>Zack Castillo</i>
CONTRACTOR	Yellow Jacket Drilling	DATE STARTED	<i>01/27/75</i>
DRILLER	<i>Zack Whistler</i>	DATE FINISHED	<i>02/27/75</i>

Depth (ft.)	Sample Depth (ft)	Sample Name	Stratum Change (ft.)	USCS Symbol	Visual-Manual Identification & Description (density/consistency, color, GROUP NAME & SYMBOL, maximum particle size*, structure, odor, moisture, optional descriptions, geologic interpretation)	Drill Diameter					Field Test								
						Gravel	Sand		Silt		Dilatancy	Toughness	Plasticity	Strength					
						% Coarse	% Fine	% Coarse	% Medium	% Fine					% Fines				
0			<i>0.5</i>	<i>SW-SH</i>	<i>~ 4 in of pavement</i> Gravelly sand w/ silt dark brown, moist, loose, well graded														
			<i>3</i>	<i>ML</i>	silt w/ fine sand, dark brown, stiff														
				<i>ML</i>	well graded sand w/ silt & gravel, sub rounded to sub angular, brown, moist														
					<i>ATD 6'</i>														
10				<i>ML</i>	Gravelly silt w/ sand & cobbles sub rounded to sub angular brown														
					<i>Color change @ 12 to Gray</i>														
15					<i>EOB @ 15'</i>														
20																			
25																			

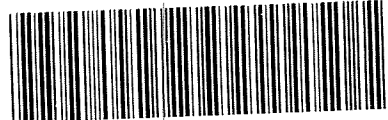
Water Level Data						Sample ID				Well Diagram				Summary									
Date	Time	Elapsed Time (hr.)	Depth in feet to:			O	T	U	S	G	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Max Depth: _____	Bags Used: _____	Other Notes: _____	
			Bottom of Casing	Bottom of Hole	Water																		Open End Rod
				<i>15</i>	<i>6</i>																		
Field Tests																							
Dilatancy: R - Rapid S - Slow N - None						Plasticity: N - Nonplastic L - Low M - Medium H - High						Toughness: L - Low M - Medium H - High						Dry Strength: N - None L - Low M - Medium H - High V - Very High					
*NOTE: Maximum Particle Size is determined by direct observation within the limitations of sampler size. NOTE: Soil identifications based on visual-manual methods of the USCS system as practiced by Haley & Aldrich, Inc.																							

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX A-3

Chain of Custody Forms

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
LA-MW-8-N-01062025	1/6/25	10:05	H ₂ O	X	X	X	X	X								6	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration  320-118123 Chain of Custody 2.8, 3.3 cor 1000
LA-MW-10-N-01062025	1/6/25	11:15	H ₂ O	X	X	X	X	X								6	
LA-MW-10-FD-01062025	1/6/25	11:30	H ₂ O	X	X	X	X	X								6	
LA-MW-9-N-01062025	1/6/25	12:40	H ₂ O	X	X	X	X	X								6	
LA-MW-12-N-01062025	1/6/25	13:30	H ₂ O	X	X	X	X	X								6	
LA-MW-11-N-01062025	1/6/25	14:20	H ₂ O	X	X	X	X	X								6	
W-MW-17-N-01062025	1/6/25	16:15	H ₂ O	X	X	X	X	X								6	
FB-01062025	1/6/25		H ₂ O	X												1	
EB-01062025	1/6/25	16:25	H ₂ O	X												3	

Sampled and Relinquished by Sign: <i>Breeyn Greer</i> Print: Breeyn Greer Firm: HA Date: 1/7/25 Time: 0900		Received by Sign: <i>Mackey Morris</i> Print: Mackey Morris Firm: EEL 8170 Date: 1/7/25 900		LIQUID											Sampling Comments
Relinquished by Sign: <i>Mackey Morris</i> Print: Mackey Morris Firm: EEL 8170 Date: 1/7/25 Time: 1502		Received by Sign: <i>[Signature]</i> Print: <i>[Signature]</i> Firm: <i>[Signature]</i> Date: 1.8.25		SOLID											VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by Sign: Print: Firm: Date: Time:		Received by Sign: Print: Firm: Date: Time:		PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)											Evidence samples were tampered with? YES NO If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods) If Presumptive Certainty Data Package is needed, initial all sections. The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are		Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2		
--	--	---	--	--



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc 320
118123

Tracking # 404256929329

Job _____

SO PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GS / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm ID: 111 Corr. Factor (+/-) _____ °C

Ice 1 Wet 1 Gel _____ Other _____

Cooler Custody Seal: 2037467

Cooler ID _____

Temp Observed: 3.4 °C Corrected 3.4 °C
From. Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: [Signature] Date: 1.8.25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 1.8.25

Notes: _____

Trizma Lot #(s) _____

Ammonium

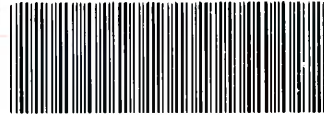
Acetate Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples received within hold time?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: [Signature] Date: 1.8.25

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
FB-010725	1/7/25	-	H ₂ O	X												1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration 3.9, 4.6 10006
WMW-15-N-010725	1/7/25	9:35	H₂O	X												3	
EA-MW-14A-N-01072025	1/7/25	12:35	H ₂ O	X												3	
EA-MW-14B-N-01072025	1/7/25	13:40	H ₂ O	X												3	
EA-MW-13A-N-01072025	1/7/25	14:50	H ₂ O	X												3	
EA-MW-13A-FD-01072025	1/7/25	15:20	H ₂ O	X												3	
EB-01072025	1/7/25	16:00	H ₂ O	X												3	



320-118162 Chain of Custody

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print Zack Castillo & Sid Firm H&A Date 1/7/25 Time 1644	Sign <i>[Signature]</i> Print Macky Morns Firm B&E SPO Date 1/7/25 Time 1644		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Sign <i>[Signature]</i> Print Macky Morns Firm B&E SPO Date 1/8/25 Time 1457	Sign <i>[Signature]</i> Print Pam Medeiros Firm B&E SPO Date 1/9/25 Time 0930		VOA Vial Amber Glass Clear Glass Preservative Volume

PRESERVATION KEY			
A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
 Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Tracking #: 4242 5962 9423

Job: _____ Loc: 321 118162 _____

SO (PO) FO SAT 2-Day Ground UPS CDO Courier
GSL OnTrac Goldstreak USPS Other _____

Use this form to record _____ Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Therm. ID: U2 Corr. Factor: (+/-) _____ °C

Ice Wet Gel _____ Other _____

Cooler Custody Seal: 2287452

Cooler ID: _____

Temp Observed: 2.5 °C Corrected: 2.5 °C

From: Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: M Date: 1/9/25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 1.9.25

Notes: _____

Trizma Lot #(s): _____


Ammonium Acetate Lot #(s): _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials: [Signature] Date: 1.9.25

H&A FILE NO. 0209800-001 **LABORATORY** Eurofins Environmental Testing **DELIVERY DATE** _____
PROJECT NAME Geiger Field PFAS Support **ADDRESS** 11922 E 1st Ave. Spokane Valley, WA 99206 **TURNAROUND TIME** _____
H&A CONTACT Breeyn Greer **CONTACT** Rande Arrington **PROJECT MANAGER** Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B								
FB-01082025	1/8/25	-	H ₂ O	X											1	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ , SO ₄ ²⁻ - Alkalinity to be measured by titration <i>2462.8 cor 1 pool</i>
EA-MW-13B-N-01082025	1/8/25	10:35	H ₂ O	X											3	
EA-MW-8A-N-01082025	1/8/25	12:00	H ₂ O	X											3	
SWN-MW-321-N-01082025	1/8/25	14:55	H ₂ O	X											3	
EB-1-01082025	1/8/25	15:25	H ₂ O	X											3	
EA-MW-5A-N-01082025	1/8/25	13:15	H ₂ O	X											3	
EA-MW-5A-FD-01082025	1/8/25	13:30	H ₂ O	X											3	
EB-2-01082025	1/8/25	16:00	H ₂ O	X											3	

Sampled and Relinquished by		Received by	LIQUID	Sampling Comments
Sign <i>Breeyn Greer</i>	Sign <i>Mackey Morris</i>		VOA Vial	 320-118205 Chain of Custody
Print <i>Breeyn Greer</i>	Print <i>Mackey Morris</i>		Amber Glass	
Firm <i>HA</i>	Firm <i>EEB</i>		Plastic Bottle	
Date <i>1/9/25</i> Time <i>1050</i>	Date <i>1/9/25 1050</i>		Preservative	
Relinquished by		Received by	SOLID	
Sign <i>Mackey Morris</i>	Sign <i>EEB</i>		VOA Vial	
Print <i>Mackey Morris</i>	Print <i>EEB</i>		Amber Glass	
Firm <i>EEB</i>	Firm <i>EEB</i>		Clear Glass	
Date <i>1/9/25</i> Time <i>1500</i>	Date <i>1/13/25 1130</i>		Preservative	
Relinquished by		Received by	Volume	Evidence samples were tampered with? YES NO
Sign	Sign			If YES, please explain in section below.
Print	Print			
Firm	Firm			
Date	Date			

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are		Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2
---	--	---



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118205

Tracking # 42425692 9456

Job _____

SO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID: W-1 Corr Factor (+/-): 0.9 °C

Ice _____ Wet _____ Gel _____ Other _____

Cooler Custody Seal 2287454

Cooler ID _____

Temp Observed: 30 °C Corrected: 30 °C

From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment Yes No NA

Cooler compromised/tampered with?

Cooler Temperature is acceptable?

Frozen samples show signs of thaw?

Initials SO Date 11/13/25

Unpacking/Labeling The Samples Yes No NA

Containers are not broken or leaking?

Samples compromised/tampered with?

COC is complete w/o discrepancies

Sample custody seal?

Sample containers have legible labels?

Sample date/times are provided?

Appropriate containers are used?

Sample bottles are completely filled?

Sample preservatives verified?

Is the Field Sampler's name on COC?

Samples w/o discrepancies?

Zero headspace?*

Alkalinity has no headspace?

Perchlorate has headspace?
(Methods 314, 331, 6850)

Multiphasic samples are not present?

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials PSH Date 11/13/25

Notes: _____

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion Yes No NA

Receipt Temperature on COC?

NCM Filed?

Samples received within hold time?

Log Release checked in TALS?

Initials PSH Date 11/13/25

WR3-19D




Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

Phone (509) 960-7447
Fax (509) 960-7447

Page 1 of 3 *MP*

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/10/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B								
SWN-MW-7-N-01092025	1/9/25	9:45	H ₂ O	X											3	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration 2, 3, 2.7 cam 1000
SWN-MW-7-FD-01092025	1/9/25	10:15	H ₂ O	X											3	
SWN-MW-4-N-01092025	1/9/25	11:15	H ₂ O	X											3	
SWN-MW-6-N-01092025	1/9/25	12:15	H ₂ O	X											3	
SWN-MW-14-N-01092025	1/9/25	13:10	H ₂ O	X											3	
SWN-MW-13-N-01092025	1/9/25	14:10	H ₂ O	X											3	
FGF-MW-18-N-01092025	1/9/25	15:30	H ₂ O	X											3	
EB-1-01092025	1/9/25	15:45	H ₂ O	X											3	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print Luke Peden Firm Haley & Aldrich Date 1/10/25 Time 12:5	Sign <i>[Signature]</i> Print Macky Morris Firm EETSAC Date 1/10/25 Time 12:14	VOA Vial Amber Glass Plastic Bottle Preservative Volume	 320-118256 Chain of Custody
Sign <i>[Signature]</i> Print FURSOTO-H Firm EETSAC Date 1/15/25 Time 9:45	Sign <i>[Signature]</i> Print FURSOTO-H Firm EETSAC Date 1/15/25 Time 9:45	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)		Required Reporting Limits and Data Quality Objectives
If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are	<input type="checkbox"/> RC-S1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> RC-GW2	<input type="checkbox"/> S1 <input type="checkbox"/> S2 <input type="checkbox"/> S3 <input type="checkbox"/> GW1 <input type="checkbox"/> GW2 <input type="checkbox"/> GW3

0.3°C



Haley & Aldrich, Inc.
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Page 2 of 3 LWP

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/10/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave. Spokane Valley WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
SUN-MW-A N-20025 1/10/25 0:20			H ₂ O	X											3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration 2.4, 2.8 com 1Rex06	
SUN-MW-3 N-20025 1/10/25 2:25				X													
SUN-MW-1-N-50 20 1/9/25 14:30				X													
SUN-MW-2 N-20025 1/9/25 15:40				X													
FB-20 0:20 1/9/25 0:05				X													
FB-0 0:20 1/9/25				X													

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign: [Signature] Print: Luke Peden Firm: H&A Date: 1/10/25 Time: 12:15	Sign: [Signature] Print: Mackey Mann Firm: B&B CS PD Date: 1/10/25 12:14	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	
Sign: [Signature] Print: [Signature] Firm: EETS/HC Date: 1/15/25 9:45	Sign: [Signature] Print: FICV SGT0-H Firm: EETS/HC Date: 1/15/25 9:45	VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO
Relinquished by	Received by	PRESERVATION KEY	If YES, please explain in section below.
Sign: [Signature] Print: [Signature] Firm: [Signature] Date: [Signature]	Sign: [Signature] Print: [Signature] Firm: [Signature] Date: [Signature]	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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 Spokane, WA 99201-0513

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 Fax (509) 960-7447
 Page 3 of 3 WWP

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/10/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave. Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
SWN-MW-5-N-01102025	1/10/25	7:35	H ₂ O	X												3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
PD-MW-1A-N-01102025	1/10/25	8:20	H ₂ O	X													- Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration
GDF-GR-8-N-01102025	1/10/25	10:15	H ₂ O	X													
GDF-GR-7C-N-01102025	1/10/25	11:05	H ₂ O	X													
GDF-GR-7S-N-01102025	1/10/25	10:05	H ₂ O	X													
EB-1-01102025	1/10/25	11:15	H ₂ O	X													
EB-2-01102025	1/10/25	10:40	H ₂ O	X													
EB-01102025	1/10/25	-	H ₂ O	X													
SWN-MW-5-PD-01102025	1/10/25	8:05	H ₂ O	X													1.1, 1.9 con 1/10/25

Sampled and Relinquished by		Received by		LIQUID		SAMPLING COMMENTS	
Sign <u>[Signature]</u>	Sign <u>[Signature]</u>					VOA Vial	
Print <u>Luke Peck</u>	Print <u>Mackey Morris</u>					Amber Glass	
Firm <u>H&A</u>	Firm <u>EST</u>					Plastic Bottle	
Date <u>1/10/25</u>	Date <u>1/10/25</u>					Preservative	
Time <u>12:15</u>	Time <u>12:14</u>					Volume	
Relinquished by		Received by		SOLID			
Sign <u>[Signature]</u>	Sign <u>[Signature]</u>					VOA Vial	
Print <u>[Signature]</u>	Print <u>FLY SOTC-H</u>					Amber Glass	
Firm <u>EST</u>	Firm <u>EST</u>					Clear Glass	
Date <u>1/15/25</u>	Date <u>1/15/25</u>					Preservative	
Time <u>9:45</u>	Time <u>9:45</u>					Volume	
Relinquished by		Received by				Evidence samples were tampered with? YES NO	
Sign	Sign						
Print	Print						If YES, please explain in section below.
Firm	Firm						
Date	Date						

PRESERVATION KEY

A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118256

Tracking # 42425090 9040

Job: _____

SO (PO) FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID <u>L-09</u> Corr Factor (+/-) _____ °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Ice <input checked="" type="checkbox"/> Wet <input checked="" type="checkbox"/> Gel _____ Other _____	
Cooler Custody Seal <u>2287482</u>	
Cooler ID _____	
Temp Observed: <u>03</u> °C Corrected <u>03</u> °C	
From Temp Blank <input type="checkbox"/> Sandwich <input checked="" type="checkbox"/> Sidewall <input type="checkbox"/>	
Opening/Processing The Shipment <u>Yes</u> <u>No</u> <u>NA</u>	
Cooler compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Frozen samples show signs of thaw? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Initials <u>FAT</u> Date <u>1/15/25</u>	
Unpacking/Labeling The Samples <u>Yes</u> <u>No</u> <u>NA</u>	Trizma Lot #(s) _____ _____ _____ Ammonium Acetate Lot #(s): _____ _____ _____
Containers are not broken or leaking? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
COC is complete w/o discrepancies <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample custody seal? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Sample containers have legible labels? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample date/times are provided? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Appropriate containers are used? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample bottles are completely filled? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample preservatives verified? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Is the Field Sampler's name on COC? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Samples w/o discrepancies? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Zero headspace?* <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Alkalinity has no headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Perchlorate has headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
(Methods 314, 331, 6850)	
Multiphasic samples are not present? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")	
Login Completion <u>Yes</u> <u>No</u> <u>NA</u>	
Receipt Temperature on COC? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
NCM Filed? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Samples received within hold time? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Log Release checked in TALS? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Initials <u>DM</u> Date <u>01/15/25</u>	Initials <u>DM</u> Date <u>01/15/25</u>

WP-3-2917



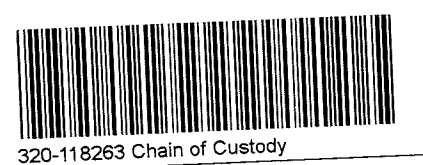
Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

Phone (509) 960-7447
Fax (509) 960-7447

Page 1 of 1

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
GCF-MW-SD-N-213205	1/13/25	12:40	H ₂ O	X											3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.	
EA-MW-3B-N-2113205	1/13/25	15:30		X												- Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration	
GCF-MW-13-N-213205	1/13/25	10:40		X													
LWF-MW-5-N-213205	1/13/25	11:40		X													
GCF-MW-5-ED-2113205	1/13/25	12:10		X													
LWF-MW-11-N-213205	1/13/25	13:55		X													
GCF-MW-7-N-213205	1/13/25	14:45		X													
GCF-MW-11-N-2113205	1/13/25	16:10		X													
EB-213205	1/13/25	16:10		X													
EB-213205	1/13/25			X												2.8, 3.2 com (Roole)	



Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign: [Signature] Print: Breeyn Greer Firm: HA Date: 1/14/25 Time: 0950	Sign: [Signature] Print: Macky Morris Firm: EET Date: 1/14/25 Time: 9:00	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	
Sign: [Signature] Print: Macky Morris Firm: EET Date: 1/14/25 Time: 1514	Sign: [Signature] Print: [Signature] Firm: EET Date: 1/15/25 Time: 0945	VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Sign	Sign	PRESERVATION KEY	
Print	Print	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol	
Firm	Firm	B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	
Date	Date		

<p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty</p> <p>Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are</p>	<p>Required Reporting Limits and Data Quality Objectives</p> <table> <tr> <td><input type="checkbox"/> RC-S1</td> <td><input type="checkbox"/> S1</td> <td><input type="checkbox"/> GW1</td> </tr> <tr> <td><input type="checkbox"/> RC-S2</td> <td><input type="checkbox"/> S2</td> <td><input type="checkbox"/> GW2</td> </tr> <tr> <td><input type="checkbox"/> RC-GW1</td> <td><input type="checkbox"/> S3</td> <td><input type="checkbox"/> GW3</td> </tr> <tr> <td><input type="checkbox"/> RC-GW2</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1	<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2	<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3	<input type="checkbox"/> RC-GW2		
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1											
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2											
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3											
<input type="checkbox"/> RC-GW2													



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118263

Tracking # 4242 5692 9743

Job _____

SO / (PO) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID: WY Corr Factor (+/-) N/A °C

Ice Wet Gel _____ Other _____

Cooler Custody Seal 2287433

Cooler ID _____

Temp Observed 15 °C Corrected 15 °C
From. Temp Blank Sandwich Sidewall
50/11/25

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials SO Date 11/15/25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples w/o discrepancies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials SO Date 11/15/25

Notes: _____
(1) Rec 1 container

Trizma Lot #(s) _____

Ammonium
 Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials SO Date 11/15/25



Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

Phone (509) 960-7447
Fax (509) 960-7447

Page 1 of 2 *2 w/p*

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
EA-M-9B-N-01142025	1/14/25	11:50	H ₂ O	X												3 <i>2 w/p</i>	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
GDF-GR-5-N-01142025	1/14/25	14:05		X													- Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration
GCF-M-11A-N-01142025	1/14/25	10:35		X													
GCF-M-12A-N-01142025	1/14/25	11:55		X													
GCF-M-12A-FO-01142025	1/14/25	12:25		X													
GCF-M-12B-N-01142025	1/14/25	13:15		X													
GDF-M-10A-N-01142025	1/14/25	14:30		X													
GDF-M-10R-N-01142025	1/14/25	15:15		X													
EB-01142025	1/14/25	15:25		X													
FB-01142025	1/14/25			X													2.8, 3.2 cor 112006



320-118344 Chain of Custody

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>Breeyn Greer</i> Print Breeyn Greer Firm LHA Date 1/15/25 Time 1550	Sign <i>Mackey Morris</i> Print Mackey Morris Firm EET/800 Date 1/15/25 1550		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by	Received by	SOLID	
Sign <i>Mackey Morris</i> Print Mackey Morris Firm EET/800 Date 1/14/25 Time 1535	Sign <i>Jessie</i> Print Jessie Firm EET/800 Date 1/14/25 1045		VOA Vial Amber Glass Clear Glass Preservative Volume
Relinquished by	Received by	PRESERVATION KEY	Evidence samples were tampered with? YES NO If YES, please explain in section below
Sign Print Firm Date	Sign Print Firm Date	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

1.900

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/18/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B								
GDF-GR-2-N-01152025	1/15/25	9:45	H ₂ O	X											3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
GDF-GR-2-FD-01152025	1/15/25	9:55		X												- Cations to be analyzed: Ca, Mg, K, Na - Anions to be analyzed: Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration
GDF-GR-3-N-01152025	1/15/25	9:05		X												
GDF-GR-4-N-01152025	1/15/25	10:45		X												
EB-01152025	1/15/25	10:55		X												
FB-01152025	1/15/25			X											1	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <u>[Signature]</u> Print <u>Luce P den</u> Firm <u>Haley & Aldrich</u> Date <u>1/16/25</u> Time <u>1330</u>	Sign <u>[Signature]</u> Print <u>[Signature]</u> Firm <u>EFT</u> Date <u>1/16/25</u> Time <u>1330</u>		
Sign <u>[Signature]</u> Print <u>[Signature]</u> Firm <u>EFT</u> Date <u>1/16/25</u> Time <u>1535</u>	Sign <u>[Signature]</u> Print <u>[Signature]</u> Firm <u>EFT</u> Date <u>1/17/25</u> Time <u>1045</u>		
Sign	Sign		Evidence samples were tampered with? YES NO
Print	Print		If YES, please explain in section below.
Firm	Firm		
Date	Date		

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
 Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118344

Tracking # 4242 5692 9960

Job _____

SO PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID LW Corr Factor (+/-) N/A °C

Ice - Wet _____ Gel _____ Other _____

Cooler Custody Seal: 2287431

Cooler ID _____

Temp Observed 1.9 °C Corrected 1.9 °C

From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials JF Date: 1/17/25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials JF Date: 1/17/25

Notes: _____

Trizma Lot #(s). _____

Ammonium
Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials JF Date: 1/17/25

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave. Spokane Valley WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633														
JTA-002-N-S040-01162025	1/16/2025	8.30	Soil													X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-002-N-S042-01162025	1/16/2025	8.35	Soil													X	1	TOC: Total Organic Carbon
JTA-003-N-S000-01162025	1/16/2025	9.30	Soil														1	
JTA-003-N-S001-01162025	1/16/2025	9.35	Soil	X													1	
JTA-003-N-S003-01162025	1/16/2025	9.40	Soil	X													1	
JTA-003-N-S006-01162025	1/16/2025	9.45	Soil												X	1		
JTA-003-N-S010-01162025	1/16/2025	9.50	Soil												X	1		
JTA-003-N-S015-01162025	1/16/2025	9:55	Soil												X	1		
JTA-003-N-S020-01162025	1/16/2025	10.00	Soil												X	1		
JTA-003-N-S030-01162025	1/16/2025	10.05	Soil												X	1		



0.8 corr made

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print <i>Bonnie Gowen</i> Firm <i>HEA</i> Date <i>1/17/25</i> Time <i>1148</i>	Sign <i>[Signature]</i> Print <i>Mackey Morris</i> Firm <i>ET&PO</i> Date <i>1/17/25</i> Time <i>1148</i>		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Sign <i>[Signature]</i> Print <i>Mackey Morris</i> Firm <i>ET&PO</i> Date <i>1/17/25</i> Time <i>1527</i>	Sign <i>[Signature]</i> Print <i>Oliver Medeiros</i> Firm <i>ET&PO</i> Date <i>1/18/25</i> Time <i>0900</i>	SOLID	VOA Vial Amber Glass Clear Glass Preservative Volume
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____	PRESERVATION KEY	Evidence samples were tampered with? YES NO If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Spokane, WA 99201-0513

Phone (509) 960-7447
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Page 2 of 5

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave. Spokane Valley WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
JTA-004-N-S000-01162025	1/16/2025	10 40	Soil												X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-004-N-S001-01162025	1/16/2025	10 45	Soil	X												1	- TOC: Total Organic Carbon
JTA-004-N-S003-01162025	1/16/2025	10:50	Soil	X											1		
JTA-004-FD-S003-01162025	1/16/2025	10.55	Soil	X											1		
JTA-004-N-S006-01162025	1/16/2025	11:00	Soil											X	1		
JTA-004-N-S010-01162025	1/16/2025	11 05	Soil											X	1		
JTA-004-N-S015-01162025	1/16/2025	11 10	Soil											X	1		
JTA-004-N-S020-01162025	1/16/2025	11 15	Soil											X	1		
JTA-004-N-S030-01162025	1/16/2025	11:20	Soil											X	1		
JTA-005-N-S000-01162025	1/16/2025	13.25	Soil											X	1	O.S. @ 1 P.M.	

Sampled and Relinquished by _____ Received by _____ LIQUID Sampling Comments _____
 Sign [Signature] Sign [Signature] VOA Vial _____
 Print Bonnie Govan Print Maacky Morns Amber Glass _____
 Firm H&A Firm LBETSPO Plastic Bottle _____
 Date 1/17/25 Time 1148 Date 1/17/25 Time 1148 Preservative _____
 Volume _____

Relinquished by _____ Received by _____ SOLID _____
 Sign [Signature] Sign [Signature] VOA Vial _____
 Print Maacky Morns Print [Signature] Amber Glass _____
 Firm LBETSPO Firm [Signature] Clear Glass _____
 Date 1/17/25 Time 1527 Date 1/17/25 Time 0900 Preservative _____
 Volume _____

Relinquished by _____ Received by _____ Evidence samples were tampered with? YES NO
 Sign _____ Sign _____ If YES, please explain in section below
 Print _____ Print _____
 Firm _____ Firm _____
 Date _____ Date _____

PRESERVATION KEY
 A Sample chilled C NaOH E H₂SO₄ G Methanol
 B Sample filtered D HNO₃ F HCL H Water/NaHSO₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)
 If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

 If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re
 Required Reporting Limits and Data Quality Objectives
 RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments(special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														
JTA-005-N-S001-01162025	1/16/2025	13.30	Soil	X													1	- PFAS Analysis to be conducted by Eurofins Sacramento - TOC: Total Organic Carbon Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-005-N-S003-01162025	1/16/2025	13.35	Soil	X												1		
JTA-005-FD-S003-01162025	1/16/2025	14.05	Soil	X												1		
JTA-005-N-S006-01162025	1/16/2025	13.40	Soil											X		1		
JTA-005-N-S010-01162025	1/16/2025	13.45	Soil											X		1		
JTA-005-N-S015-01162025	1/16/2025	13.50	Soil											X		1		
JTA-005-N-S017-01162025	1/16/2025	14.25	Soil											X		1		
JTA-005-N-S025-01162025	1/16/2025	14.30	Soil											X		1		
JTA-006-N-S000-01162025	1/16/2025	14.55	Soil											X		1		
JTA-006-N-S001-01162025	1/16/2025	15.00	Soil	X												1	0.8car 1K006	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign: Print: Bonnie Govoni Firm: H&A Date: 1/17/25 Time: 1148	Sign: Print: Macky Morris Firm: Eurofins Date: 1/17/25 Time: 1146	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	
Sign: Print: Macky Morris Firm: Eurofins Date: 1/17/25 Time: 1529	Sign: Print: Randee Arrington Firm: H&A Date: 1/16/25 Time: 0906	VOA Vial Amber Glass Clear Glass Preservative Volume	
Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____	Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____		Evidence samples were tampered with? YES NO If YES, please explain in section below.
PRESERVATION KEY			
A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)			

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods) If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re	Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2
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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave. Spokane Valley WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
JTA-006-FD-S001-01162025	1/16/2025	15.30	Soil	X												1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-006-N-S003-01162025	1/16/2025	15 05	Soil	X												1	- TOC: Total Organic Carbon <i>D-8-con 1/16/2025</i>
JTA-006-N-S006-01162025	1/16/2025	15 10	Soil										X		1		
JTA-006-N-S010-01162025	1/16/2025	15 15	Soil										X		1		
JTA-006-N-S013-01162025	1/16/2025	15.20	Soil										X		1		
JTA-006-N-S021-01162025	1/16/2025	15:25	Soil										X		1		
JTA-006-N-S028-01162025	1/16/2025	15.30	Soil										X		1		

Sampled and Relinquished by		Received by		LIQUID		SAMPLING COMMENTS	
Sign <i>[Signature]</i>	Print <i>Bonnie Geroni</i>	Sign <i>[Signature]</i>	Print <i>Mackey Morris</i>			VOA Vial	
Firm <i>H&A</i>	Date <i>1/17/25</i> Time <i>1148</i>	Firm <i>Eurofins</i>	Date <i>1/17/25</i> Time <i>1148</i>			Amber Glass	
						Plastic Bottle	
						Preservative	
						Volume	
Relinquished by		Received by		SOLID		EVIDENCE SAMPLES WERE TAMPERED WITH? YES NO	
Sign <i>[Signature]</i>	Print <i>Mackey Morris</i>	Sign <i>[Signature]</i>	Print <i>[Signature]</i>			VOA Vial	
Firm <i>Eurofins</i>	Date <i>1/17/25</i> Time <i>1529</i>	Firm <i>Eurofins</i>	Date <i>1/16/25</i> Time <i>0910</i>			Amber Glass	
						Clear Glass	
						Preservative	
						Volume	
If YES, please explain in section below.							
				PRESERVATION KEY			
Sign		Print		A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
Print		Firm		B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)
Date		Time					

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME
 H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS	EPA 1633												
EB-0116-2025	1/16/2025	8.40	Water	X												3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FB-01162025	1/16/2025	0:00	Water	X												2	- TOC: Total Organic Carbon
0.4, 0.8 con made																	

LIQUID

Sampled and Relinquished by: Sign *[Signature]* Received by: Sign *[Signature]*
 Print Bonnie Gaveni Print Macky Morris
 Firm A&A Firm Eurofins
 Date 1/17/25 Time 1148 Date 1/17/25 1148

VOA Vial
 Amber Glass
 Plastic Bottle
 Preservative
 Volume

Sampling Comments

SOLID

Relinquished by: Sign *[Signature]* Received by: Sign *[Signature]*
 Print Macky Morris Print *[Signature]*
 Firm Eurofins Firm *[Signature]*
 Date 1/17/25 Time 1527 Date 1/18/25 0942

VOA Vial
 Amber Glass
 Clear Glass
 Preservative
 Volume

Evidence samples were tampered with? YES NO
 If YES, please explain in section below

PRESERVATION KEY

A Sample chilled C NaOH E H₂SO₄ G Methanol
 B Sample filtered D HNO₃ F HCL H Water/NaHSO₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 1 of 1

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/17/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B								
FB-01172025	1/17/25	-	H ₂ O	X											2	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
GCF-MW-B-N-01172025	1/17/25	8:55	H ₂ O	X											3	- Cations to be analyzed: Ca, Mg, K, Na
GCF-MW-B-FD-01172025	1/17/25	9:25	H ₂ O	X											3	- Anions to be analyzed: Cl, NO ₃ , SO ₄ ²⁻
EB-01172025	1/17/25	9:45	H ₂ O	X											3	- Alkalinity to be measured by titration
EA-MW-7B-N-01172025	1/17/25	9:10	H ₂ O	X											3	
EA-MW-7A-N-01172025	1/17/25	10:40	H ₂ O	X											3	
GCF-MW-10-N-01172025	1/17/25	10:45	H ₂ O	X											3	



320-118376 Chain of Custody

3.7, 4.1 can 1P000

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print Luke Pidan Firm Haley & Aldrich Date 12/17/25 Time 12:25	Sign <i>[Signature]</i> Print Macky Morris Firm <i>[Signature]</i> Date 1/17/25 Time 12:27	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Sign <i>[Signature]</i> Print Macky Morris Firm <i>[Signature]</i> Date 1/17/25 Time 15:27	Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm <i>[Signature]</i> Date 1/18/25	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below
Sign Print Firm Date	Sign Print Firm Date	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

3.3



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118376

Tracking # 9242 5693 0048

Job _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID: 012 Corr Factor (+/-) _____ °C

Ice Wet Gel _____ Other _____

Cooler Custody Seal: 2287491

Cooler ID: 1082

Temp Observed: 2 °C Corrected 1.3 °C

From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment Yes No NA

Cooler compromised/tampered with?

Cooler Temperature is acceptable?

Frozen samples show signs of thaw?

Initials: M Date 1/18/25

Unpacking/Labeling The Samples Yes No NA

Containers are not broken or leaking?

Samples compromised/tampered with?

COC is complete w/o discrepancies

Sample custody seal?

Sample containers have legible labels?

Sample date/times are provided?

Appropriate containers are used?

Sample bottles are completely filled?

Sample preservatives verified?

Is the Field Sampler's name on COC?

Samples w/o discrepancies?

Zero headspace?*

Alkalinity has no headspace?

Perchlorate has headspace?

(Methods 314, 331, 6850)

Multiphasic samples are not present?

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials DM Date 01/18/25

Notes: _____

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion

Receipt Temperature on COC? Yes No NA

NCM Filed?

Samples received within hold time?

Log Release checked in TALS?

Initials DM Date 01/18/25

WR3-19D




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Page 1 of 5

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/2025
PROJECT NAME Geiger Field PFAS Support ADDRESS 800 Riverside Parkway W. Sac. CA TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Afsaneh Salimpour 95605 PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631	PFAS EPA 1631			
LTA-001-N-S000-01152025	1/15/2025	8:05	Soil												X	3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.	
LTA-001-N-S001-01152025	1/15/2025	8:10	Soil	X												3	- TOC: Total Organic Carbon  320-118378 Chain of Custody 3.7.5.8 cor 1/20/20	
LTA-001-N-S003-01152025	1/15/2025	8:15	Soil	X											3			
LTA-001-N-S006-01152025	1/15/2025	8:20	Soil											X	3			
LTA-001-N-S010-01152025	1/15/2025	8:25	Soil											X	3			
LTA-001-N-S012-01152025	1/15/2025	8:30	Soil											X	3			
LTA-001-FD-S012-01152025	1/15/2025	9:00	Soil											X	3			
LTA-002-N-S000-01152025	1/15/2025	9:20	Soil											X	3			
LTA-002-N-S001-01152025	1/15/2025	9:25	Soil	X										X	3			
LTA-002-N-S003-01152025	1/15/2025	9:30	Soil	X											3			

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print Luke Peden Firm Haley & Aldrich Date 1/16/25 Time 13:57	Sign <i>[Signature]</i> Print Macky Morris Firm EETSPO Date 1/16/25 13:30	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Sign <i>[Signature]</i> Print Macky Morris Firm EETSPO Date 1/17/25 Time 15:14	Sign <i>[Signature]</i> Print Macky Morris Firm EETSPO Date 1/17/25 09:60	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Sign Print Firm Date	Sign Print Firm Date	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 2 of 5

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/2025
PROJECT NAME Geiger Field PFAS Support ADDRESS TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture Content										
LTA-002-N-S006-01152025	1/15/2025	9:35	Soil													X	3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon 3.745.8 con (Rec'd)
LTA-002-N-S010-01152025	1/15/2025	9:40	Soil													X	3	
LTA-003-N-S000-01152025	1/15/2025	10:00	Soil													X	3	
LTA-003-N-S001-01152025	1/15/2025	10:05	Soil	X													3	
LTA-003-N-S003-01152025	1/15/2025	10:10	Soil	X													3	
LTA-003-N-S006-01152025	1/15/2025	10:15	Soil													X	3	
LTA-003-N-S010-01152025	1/15/2025	10:20	Soil													X	3	
LTA-003-N-S015-01152025	1/15/2025	10:25	Soil													X	3	
LTA-003-N-S017-01152025	1/15/2025	10:30	Soil													X	3	
LTA-003-FD-S001-01152025	1/15/2025	10:30	Soil	X													3	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign [Signature] Print Luke Peden Firm H&A Date 1/16/25 Time 13:37	Sign [Signature] Print Macky Mones Firm EELSPO Date 1/16/25 1330	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	Evidence samples were tampered with? YES NO
Sign [Signature] Print Macky Mones Firm EELSPO Date 1/17/25 Time 1515	Sign [Signature] Print [Signature] Firm [Signature] Date 1/18/25 0900	VOA Vial Amber Glass Clear Glass Preservative Volume	If YES, please explain in section below.
Relinquished by	Received by	PRESERVATION KEY	
Sign Print Firm Date Time	Sign Print Firm Date	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 3 of 5

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/2025
PROJECT NAME Geiger Field PFAS Support ADDRESS _____ TURNAROUND TIME Standard
H&A CONTACT Breelyn Greer CONTACT _____ PROJECT MANAGER Breelyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	TOC	EPA 9060A pH EPA SW- 846 9045D	Moisture Content											
JTA-001-N-S000-01152025	1/15/2025	15:00	Soil													X	3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-001-N-S001-01152025	1/15/2025	15:05	Soil	X													3	- TOC: Total Organic Carbon
JTA-001-N-S003-01152025	1/15/2025	15 10	Soil	X													3	
JTA-001-N-S006-01152025	1/15/2025	15 15	Soil												X	3		
JTA-001-N-S010-01152025	1/15/2025	15:20	Soil											X	3			
JTA-001-N-S015-01152025	1/15/2025	15:25	Soil											X	3			
JTA-001-N-S020-01152025	1/15/2025	15:30	Soil											X	3			
JTA-001-N-S023-01152025	1/15/2025	15:35	Soil											X	3			
JTA-001-FD-S006-01152025	1/15/2025	15:45	Soil											X	3			
JTA-002-N-S000-01152025	1/15/2025	15:55	Soil											X	3			

3.7.5.8 on 1 P004

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign: <i>[Signature]</i> Print: <u>Lore Fiden</u> Firm: <u>ETA</u> Date: <u>1/16/25</u> Time: <u>3:30</u>	Sign: <i>[Signature]</i> Print: <u>Macky Morris</u> Firm: <u>EECSPO</u> Date: <u>1/16/25</u> Time: <u>1330</u>	VOA Vial Amber Glass Plastic Bottle Preservative Volume	

Relinquished by	Received by	SOLID	Volume
Sign: <i>[Signature]</i> Print: <u>Macky Morris</u> Firm: <u>EECSPO</u> Date: <u>1/17/25</u> Time: <u>1615</u>	Sign: <i>[Signature]</i> Print: <u>Dan Madsen</u> Firm: <u>EECSPO</u> Date: <u>1/17/25</u> Time: <u>0900</u>	VOA Vial Amber Glass Clear Glass Preservative Volume	

Relinquished by	Received by	Preservative	Evidence samples were tampered with? YES NO
Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____	Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____	Volume	If YES, please explain in section below.

PRESERVATION KEY			
A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

24



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Page 4 of 5

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/2025
PROJECT NAME Geiger Field PFAS Support ADDRESS 800 Riverside Parkway, West Sacramento CA. 95605 TURNAROUND TIME 5-day Standard
H&A CONTACT Breeyn Greer CONTACT _____ PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture Content										
JTA-002-N-S001-01152025	1/15/2025	16:00	Soil	X													3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon 3.7 & 5.8 con V Roolp
JTA-002-N-S003-01152025	1/15/2025	16:05	Soil	X													3	
JTA-002-FD-S003-01152025	1/15/2025	16:35	Soil	X													3	
JTA-002-N-S006-01152025	1/15/2025	16:10	Soil											X			3	
JTA-002-N-S010-01152025	1/15/2025	16:15	Soil											X			3	
JTA-002-N-S015-01152025	1/15/2025	16:20	Soil											X			3	
JTA-002-N-S020-01152025	1/15/2025	16:25	Soil											X			3	
JTA-002-N-S025-01152025	1/15/2025	16:28	Soil											X			3	
JTA-002-N-S030-01152025	1/15/2025	16:30	Soil											X			3	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <u>[Signature]</u> Print <u>Luke Pilon</u> Firm <u>H&A</u> Date <u>1/16/25</u> Time <u>13:00</u>	Sign <u>[Signature]</u> Print <u>Mackey Morris</u> Firm <u>EUROFINS</u> Date <u>1/16/25</u> Time <u>13:30</u>		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by	Received by	SOLID	
Sign <u>[Signature]</u> Print <u>Mackey Morris</u> Firm <u>EUROFINS</u> Date <u>1/17/25</u> Time <u>15:15</u>	Sign <u>[Signature]</u> Print <u>Mackey Morris</u> Firm <u>EUROFINS</u> Date <u>1/17/25</u> Time <u>09:00</u>		VOA Vial Amber Glass Clear Glass Preservative Volume
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____		Evidence samples were tampered with? YES NO If YES, please explain in section below.

PRESERVATION KEY

A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified hereon.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 5 of 5

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/2025
PROJECT NAME Geiger Field PFAS Support ADDRESS _____ TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT _____ PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content										
EB-01152025	1/15/2025	10 00	Water	X												3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon
HDW01152025	1/15/2025	15:20	Water	X												3	
FB-01152025	1/15/2025	0:00	Water	X												1	

3.7, 5.8, 10, 12, 14, 16, 18, 20, 21, 22, 24, 25, 26, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Sampled and Relinquished by		Received by		LIQUID		SOLID		PRESERVATION KEY	
Sign <i>[Signature]</i>	Print <i>Luke F den</i>	Sign <i>[Signature]</i>	Print <i>Mackey Morris</i>					A Sample chilled	C NaOH
Firm <i>H&A</i>	Date <i>1/16/25</i> Time <i>3:30</i>	Firm <i>EBL870</i>	Date <i>1/16/25</i> Time <i>1330</i>					B Sample filtered	D HNO ₃
								E H ₂ SO ₄	F HCL
								G Methanol	H Water/NaHSO ₄ (circle)

Sampling Comments
Evidence samples were tampered with? YES NO
If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are reported.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

224



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118378

Tracking # 4242 5693 0077

Job _____

SO / PO / FO (SAT) 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm. ID: 412 Corr Factor (+/-) _____ °C
Ice Wet _____ Gel _____ Other _____

Cooler Custody Seal: 2287490

Cooler ID 10f2

Temp Observed 2.4 °C Corrected: 2.4 °C
From: Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials M Date 1/18/25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zero headspace?* <u>SO 1/20/25</u>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials SO Date 1/20/25

Notes: 10
(7) ends - 011525

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials SO Date 1/20/25



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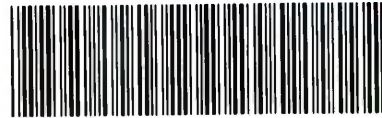
Phone (509) 960-7447

Fax (509) 960-7447

Page 1 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/20/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														
JTA-007-N-S000-01172025	1/17/2025	0950	Soil														1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-007-N-S001-01172025	1/17/2025	0955	Soil	x													1	- TOC: Total Organic Carbon
JTA-007-N-S003-01172025	1/17/2025	1000	Soil	x													1	
JTA-007-FD-S003-01172025	1/17/2025	1030	Soil	x													1	
JTA-007-N-S006-01172025	1/17/2025	1005	Soil														1	
JTA-007-N-S010-01172025	1/17/2025	1010	Soil														1	
JTA-007-N-S013-01172025	1/17/2025	1035	Soil														1	
JTA-008-N-S000-01172025	1/17/2025	1055	Soil														1	
JTA-008-N-S001-01172025	1/17/2025	1100	Soil	x													1	3.3, 3.7 low 1/20/25
JTA-008-N-S003-01172025	1/17/2025	1105	Soil	x													1	0.4, 0.8 corr 1/20/25



320-118424 Chain of Custody

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <u>Breeyn Greer</u> Print <u>Breeyn Greer</u> Firm <u>HA</u> Date <u>1/20/25</u> Time <u>0940</u>	Sign <u>Mackey Morris</u> Print <u>Mackey Morris</u> Firm <u>EEST SPO</u> Date <u>1/20/25</u> Time <u>840</u>	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Sign <u>Mackey Morris</u> Print <u>Mackey Morris</u> Firm <u>EEST SPO</u> Date <u>1/20/25</u> Time <u>1457</u>	Sign <u>J. Flor Soto</u> Print <u>J. Flor Soto</u> Firm <u>EEST SPO</u> Date <u>1/21/25</u> Time <u>1115</u>	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.

Sampled and Relinquished by	Received by	PRESERVATION KEY
Sign Print Firm Date	Sign Print Firm Date	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)	Required Reporting Limits and Data Quality Objectives
<p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.</p> <p>Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.</p>	<input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2

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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/20/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
JTA-008-N-S006-01172025	1/17/2025	1110	Soil													1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-008-N-S010-01172025	1/17/2025	1115	Soil													1	- TOC: Total Organic Carbon
JTA-008-N-S015-01172025	1/17/2025	1120	Soil													1	
JTA-008-N-S017-01172025	1/17/2025	1130	Soil													1	
JTA-009-N-S000-01172025	1/17/2025	1140	Soil													1	
JTA-009-N-S001-01172025	1/17/2025	1145	Soil	X												1	
JTA-009-N-S003-01172025	1/17/2025	1150	Soil	X												1	
JTA-009-FD-S003-01172025	1/17/2025	1220	Soil	X												1	
JTA-009-N-S006-01172025	1/17/2025	1155	Soil													1	3.740.8 cor 1/20/25
JTA-009-N-S010-01172025	1/17/2025	1200	Soil													1	

Sampled and Relinquished by: Sign Breeyn Greer, Print Breeyn Greer, Firm H&A, Date 1/20/25 Time 0040
 Received by: Sign Mackey Morris, Print Mackey Morris, Firm EETSPD, Date 1/20/25 Time 840
 LIQUID: VOA Vial, Amber Glass, Plastic Bottle, Preservative, Volume

Relinquished by: Sign Mackey Morris, Print Mackey Morris, Firm EETSPD, Date 1/20/25 Time 1457
 Received by: Sign Felix Soto, Print Felix Soto, Firm EETSAC, Date 1/21/25 Time 1115
 SOLID: VOA Vial, Amber Glass, Clear Glass, Preservative, Volume
 Evidence samples were tampered with? YES NO
 If YES, please explain in section below.

PRESERVATION KEY
 A Sample chilled C NaOH E H₂SO₄ G Methanol
 B Sample filtered D HNO₃ F HCL H Water/NaHSO₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)
 If Presumptive Certainty Data Package is needed, Initial all sections:
 The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
 Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.
 Required Reporting Limits and Data Quality Objectives
 RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/20/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS	EPA 1633												
JTA-009-N-S015-01172025	1/17/2025	1205	Soil													1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-009-N-S020-01172025	1/17/2025	1210	Soil													1	- TOC: Total Organic Carbon
JTA-009-N-S030-01172025	1/17/2025	1215	Soil													1	
RT-003-N-S000-01172025	1/17/2025	1405	Soil													1	
RT-003-N-S001-01172025	1/17/2025	1410	Soil	X												1	
RT-003-N-S003-01172025	1/17/2025	1415	Soil	X												1	
RT-003-FD-S003-01172025	1/17/2025	1420	Soil	X												1	
RT-003-N-S006-01172025	1/17/2025	1425	Soil													1	
RT-003-N-S010-01172025	1/17/2025	1430	Soil													1	
RT-003-N-S015-01172025	1/17/2025	1435	Soil													1	3.7 + 0.8ccr 1/20/25

Sampled and Relinquished by		Received by		LIQUID		SAMPLING COMMENTS	
Sign <u>Breeyn Greer</u>	Sign <u>[Signature]</u>	Sign <u>[Signature]</u>	Sign <u>[Signature]</u>			VOA Vial	
Print <u>Breeyn Greer</u>	Print <u>[Signature]</u>	Print <u>[Signature]</u>	Print <u>[Signature]</u>			Amber Glass	
Firm <u>HA</u>	Firm <u>HA</u>	Firm <u>EETSAC</u>	Firm <u>EETSAC</u>			Plastic Bottle	
Date <u>1/20/25</u> Time <u>0840</u>	Date <u>1/20/25</u> Time <u>0840</u>					Preservative	
Relinquished by	Received by					Volume	
Sign <u>[Signature]</u>	Sign <u>[Signature]</u>			SOLID			
Print <u>[Signature]</u>	Print <u>[Signature]</u>					VOA Vial	
Firm <u>EETSAC</u>	Firm <u>EETSAC</u>					Amber Glass	
Date <u>1/20/25</u> Time <u>1457</u>	Date <u>1/21/25</u> Time <u>1115</u>					Clear Glass	
Relinquished by	Received by					Preservative	Evidence samples were tampered with? YES NO
Sign	Sign					Volume	If YES, please explain in section below.
Print	Print			PRESERVATION KEY			
Firm	Firm	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol		
Date	Date	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)		

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)	Required Reporting Limits and Data Quality Objectives
If Presumptive Certainty Data Package is needed, Initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty. Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.	<input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2

4.8C



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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/20/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested													Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)			
				PFAS EPA 1633																	
RT-003-N-S020-01172025	1/17/2025	1440	Soil															1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.		
RT-003-N-S030-01172025	1/17/2025	1445	Soil															1	- TOC: Total Organic Carbon		

3.7 + 0.8 w/ 1 PCD

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <u>Breeyn Greer</u> Print <u>Breeyn Greer</u> Firm <u>HA</u> Date <u>1/20/25</u> Time <u>0840</u>	Sign <u>Mackay Morris</u> Print <u>Mackay Morris</u> Firm <u>EETSPO</u> Date <u>1/20/25</u> Time <u>840</u>		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by	Received by	SOLID	Evidence samples were tampered with? YES NO
Sign <u>Mackay Morris</u> Print <u>Mackay Morris</u> Firm <u>EETSPO</u> Date <u>1/20/25</u> Time <u>1457</u>	Sign <u>Flux Soto</u> Print <u>Flux Soto</u> Firm <u>EETSAC</u> Date <u>1/21/25</u> Time <u>1115</u>		<input type="checkbox"/> YES <input type="checkbox"/> NO If YES, please explain in section below.
Sign	Sign	PRESERVATION KEY	
Print	Print	A Sample chilled	C NaOH
Firm	Firm	E H ₂ SO ₄	G Methanol
Date	Date	B Sample filtered	D HNO ₃
		F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, Initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

4.86



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Page 1 of 1

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/10/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														
EB-01172025	1/17/2025	0940	H2O	X													3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FB-01172025	1/17/2025	all day	H2O	X													2	TOC: Total Organic Carbon

3.7 + 0.8 con 12000

Sampled and Relinquished by		Received by		LIQUID												Sampling Comments: EB taken from clean driller's soil bag	
Sign <u>Breeyn Greer</u>	Sign <u>[Signature]</u>	Print <u>Breeyn Greer</u>	Print <u>Wacky Morris</u>													VOA Vial	
Firm <u>HA</u>	Firm <u>HA</u>	Date <u>1/20/25</u>	Date <u>1/20/25</u>													Amber Glass	
Time <u>0840</u>	Time <u>0840</u>															Plastic Bottle	
																Preservative	
																Volume	
Relinquished by		Received by		SOLID													
Sign <u>[Signature]</u>	Sign <u>[Signature]</u>	Print <u>Wacky Morris</u>	Print <u>Flux Soto</u>													VOA Vial	
Firm <u>ES&P</u>	Firm <u>ES&P</u>	Date <u>1/20/25</u>	Date <u>1/21/25</u>													Amber Glass	
Time <u>1457</u>	Time <u>1115</u>															Clear Glass	
																Preservative	
																Volume	
Relinquished by		Received by														Evidence samples were tampered with? YES NO	
Sign	Sign	Print	Print													If YES, please explain in section below.	
Firm	Firm	Date	Date														
Date	Time	Date	Date														

PRESERVATION KEY

A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

48C



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118424

Tracking #: 4242 5093 0243

Job: _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Therm. ID: <u>L-09</u> Corr. Factor: (+/-) _____ °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Ice <input checked="" type="checkbox"/> Wet <input checked="" type="checkbox"/> Gel _____ Other _____	
Cooler Custody Seal: <u>2091503</u>	
Cooler ID: _____	
Temp Observed: <u>4.8</u> °C Corrected: <u>4.8</u> °C	
From: Temp Blank <input type="checkbox"/> Sandwich <input checked="" type="checkbox"/> Sidewall <input type="checkbox"/>	
Opening/Processing The Shipment <u>Yes</u> <u>No</u> <u>NA</u>	
Cooler compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Frozen samples show signs of thaw? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Initials: <u>FSH</u> Date: <u>1/21/25</u>	
Unpacking/Labeling The Samples <u>Yes</u> <u>No</u> <u>NA</u>	Trizma Lot #(s): _____ _____ _____ Ammonium Acetate Lot #(s): _____ _____ _____
Containers are not broken or leaking? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Samples compromised/tampered with? <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/>	
COC is complete w/o discrepancies <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample custody seal? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Sample containers have legible labels? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample date/times are provided? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Appropriate containers are used? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample bottles are completely filled? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Sample preservatives verified? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Is the Field Sampler's name on COC? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Samples w/o discrepancies? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
Zero headspace?* <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Alkalinity has no headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>	
Perchlorate has headspace? <input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/> (Methods 314, 331, 6850)	
Multiphasic samples are not present? <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")	
Initials: <u>[Signature]</u> Date: <u>1.21.25</u>	Initials: <u>[Signature]</u> Date: <u>1.21.25</u>

FSH OSB




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Page 1 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content										
RTA-002-N-S000-01202025	1/20/2025	8:25	Soil											X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.	
RTA-002-N-S001-01202025		8:37		X													- TOC: Total Organic Carbon  320-118499 Chain of Custody 2.4e 2.8e PROD 6
RTA-002-N-S003-01202025		8:49		X													
RTA-002-N-S006-01202025		9:01											X				
RTA-002-N-S010-01202025		9:08											X				
RTA-002-N-S015-01202025		9:23											X				
RTA-001-N-S000-01202025		10:53											X				
RTA-001-N-S001-01202025		11:05		X													
RTA-001-N-S003-01202025		11:10		X													
RTA-001-N-S006-01202025		11:25											X				

Sampled and Relinquished by _____ Received by _____ LIQUID Sampling Comments _____

Sign _____ Sign _____ VOA Vial _____
 Print _____ Print _____ Amber Glass _____
 Firm _____ Firm _____ Plastic Bottle _____
 Date _____ Time _____ Date _____ Preservative _____

Relinquished by _____ Received by _____ SOLID _____

Sign *Rachelle* Sign *CASS* _____
 Print *Lindsay Chute* Print *Jany P...* VOA Vial _____
 Firm *Haley & Aldrich* Firm *Sta Splice* Amber Glass _____
 Date *1/21/25* Time *11:00* Date *1/21/25 11:05* Clear Glass _____

Relinquished by _____ Received by _____ PRESERVATION KEY _____

Sign *M...* Sign *S...* _____
 Print *Mackey Morris* Print *S...* _____
 Firm *EBL SPO* Firm *...* _____
 Date *1/21/25* Time *10/11* Date *1/23/25 CASS* _____

A Sample chilled C NaOH E H-SO4 G Methanol
 B Sample filtered D HNO3 F HCL H Water/NaHSO4 (circle)

If Presumptive Certainty Data Package is needed, initial all sections.
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Fax (509) 960-7447

Page 2 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)			
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content												
RTA-001-N-S010-01202025	1/20/2025	11:31	Soil														X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
RTA-001-FD-S010-01202025		11:40															X		- TOC: Total Organic Carbon 2.4°C 2.8°C IR66L
RTA-001-N-S012-01202025		12:00															X		
PDW-002-N-S000-01202025		14:10															X		
PDW-002-N-S001-01202025		14:15		X															
PDW-002-N-S003-01202025		14:25		X															
PDW-002-N-S006-01202025		14:30															X		
PDW-002-N-S010-01202025		14:40															X		
PDW-002-N-S015-01202025		14:45															X		
PDW-002-N-S020-01202025		14:50															X		

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	
Sign <i>Lindsay Chutas</i> Print <i>Lindsay Chutas</i> Firm <i>Haley & Aldrich</i> Date <i>1/21/25</i> Time <i>11:20</i>	Sign <i>Greg</i> Print <i>Greg</i> Firm <i>Storjeda</i> Date <i>1/21/25</i> Time <i>11:05</i>	VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by	Received by	PRESERVATION KEY	Evidence samples were tampered with? YES NO
Sign <i>Wade</i> Print <i>Wade</i> Firm <i>WBCSPO</i> Date <i>1/21/25</i> Time <i>16:11</i>	Sign <i>Wade</i> Print <i>Wade</i> Firm <i>WBCSPO</i> Date <i>1/21/25</i> Time <i>09:55</i>	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

S.3°C



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Page 3 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content										HOLD
PDW-002-N-S025-01202025	1/20/2025	14:55	Soil												X	1	PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
PDW-002-N-S029-01202025		15:00													X		- TOC: Total Organic Carbon 2.4 = 2.8% IR06
PDW-001-N-S000-01202025		16:20												X			
PDW-001-N-S001-01202025		16:25		X													
PDW-001-N-S003-01202025		16:35		X													
PDW-001-N-S003-01202025-LC		16:40		X								X	LC		run sample		
PDW-001-N-S006-01202025		16:45										X					
PDW-001-N-S010-01202025		16:50										X					
PDW-001-N-S015-01202025		16:55										X					
PDW-001-N-S020-01202025		17:00										X					

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign	Sign	VOA Vial	
Print	Print	Amber Glass	
Firm	Firm	Plastic Bottle	
Date	Date	Preservative	
Time		Volume	
Relinquished by	Received by	SOLID	Evidence samples were tampered with? YES NO
Sign <i>Randy Chute</i>	Sign <i>Randy Chute</i>	VOA Vial	
Print <i>Randy Chute</i>	Print <i>Jerry Park</i>	Amber Glass	
Firm <i>Haley & Aldrich</i>	Firm <i>CTA Spoke</i>	Clear Glass	
Date <i>1/21/25</i> Time <i>11:00</i>	Date <i>1/21/25</i> Time <i>11:05</i>	Preservative	
Relinquished by	Received by	Volume	If YES, please explain in section below.
Sign <i>Mackey Morris</i>	Sign <i>ETSA</i>		
Print <i>Mackey Morris</i>	Print <i>ETSA</i>		
Firm <i>ETSA SPO</i>	Firm <i>ETSA</i>		
Date <i>1/21/25</i> Time <i>16:11</i>	Date <i>1/23/25</i> Time <i>08:55</i>		

PRESERVATION KEY
 A Sample chilled C NaOH E H₂SO₄ G Methanol
 B Sample filtered D HNO₃ F HCL H Water/NaHSO₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 4 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave. Spokane Valley WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content										
PDW-001-N-S025-01202025	1/20/2025	17:05	Soil												X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
PDW-001-N-S030-01202025		17:10													X		- TOC: Total Organic Carbon
PDW-001-N-S034-01202025		17:15												X			
EB-01202025		17:30	H2O	X											3		
FB-01202025			H2O	X											2		
24c 2.6c 12006																	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign	Sign	VOA Vial	
Print	Print	Amber Glass	
Firm	Firm	Plastic Bottle	
Date	Date	Preservative	
Time		Volume	
Relinquished by	Received by	SOLID	
Sign <i>Lindsay Chittas</i>	Sign <i>GAH</i>	VOA Vial	
Print Lindsay Chittas	Print Jimmy Price	Amber Glass	
Firm Haley & Aldrich	Firm EPA Spokane	Clear Glass	
Date 1/21/25	Date 1/21/25	Preservative	
Time 11:00		Volume	
Relinquished by	Received by	PRESERVATION KEY	Evidence samples were tampered with? YES NO
Sign <i>Wendy Mow</i>	Sign <i>S</i>	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol	
Print Wendy Mow	Print <i>S</i>	B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	If YES, please explain in section below.
Firm <i>Wendy Mow</i>	Firm <i>S</i>		
Date 1/21/25	Date 1/21/25		
Time 11:04			

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections.

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118499

Tracking # 4242 5693 0335

Job _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID 207 Corr Factor (+/-) NA °C

Ice Wet Gel _____ Other _____

Cooler Custody Seal: 2691566

Cooler ID _____

Temp Observed: 5.3 °C Corrected: 5.3 °C
From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials SO Date 1/23/25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials JF Date 1/23/25

Notes: _____

Trizma Lot #(s) _____

Ammonium

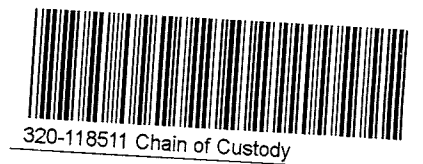
Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials JF Date 1/23/25

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
FIT-002-N-S000-01212025	1/21/2025	0725	Soil													1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FIT-002-N-S001-01212025	1/21/2025	0730	Soil	X												1	- TOC: Total Organic Carbon
FIT-002-N-S003-01212025	1/21/2025	0735	Soil	X												1	
FIT-002-N-S006-01212025	1/21/2025	0740	Soil													1	
FIT-002-N-S010-01212025	1/21/2025	0745	Soil													1	
FIT-002-N-S015-01212025	1/21/2025	0750	Soil													1	
FIT-001-N-S000-01212025	1/21/2025	0840	Soil													1	
FIT-001-N-S001-01212025	1/21/2025	0845	Soil	X												1	
FIT-001-N-S003-01212025	1/21/2025	4850	Soil	X												1	
FIT-001-FD-S003-01212025	1/21/2025	0920	Soil	X												1	



S.2,5,6 cor 1/2006

Sampled and Relinquished by		Received by		LIQUID												Sampling Comments	
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>													VOA Vial			
Print <i>Zack Castilloda Silva</i>	Print <i>Wacky Monis</i>													Amber Glass			
Firm <i>HA</i>	Firm <i>EETSPD</i>													Plastic Bottle			
Date <i>01/22/25</i> Time <i>1200</i>	Date <i>1/22/25</i> Time <i>1200</i>													Preservative			
Relinquished by		Received by		SOLID												Volume	
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>													VOA Vial			
Print <i>Wacky Monis</i>	Print <i>[Signature]</i>													Amber Glass			
Firm <i>EETSPD</i>	Firm <i>[Signature]</i>													Clear Glass			
Date <i>1/22/25</i> Time <i>1517</i>	Date <i>1/23/25</i> Time <i>0955</i>													Preservative	Evidence samples were tampered with? YES NO		
Relinquished by		Received by		PRESERVATION KEY												Volume	If YES, please explain in section below
Sign	Sign	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol															
Print	Print	B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)															
Firm	Firm																
Date	Time																

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections.

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 2 of 5

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested													Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633														
FIT-001-N-S005-01212025	1/21/2025	0855	Soil														1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FIT-003-N-S000-01212025	1/21/2025	0935	Soil														1	- TOC: Total Organic Carbon <i>5.2, 5.6 low 1 PCOLP</i>
FIT-003-N-S001-01212025	1/21/2025	0940	Soil	X												1		
FIT-003-N-S003-01212025	1/21/2025	0945	Soil	X												1		
FIT-003-N-S006-01212025	1/21/2025	0950	Soil													1		
FIT-003-N-S010-01212025	1/21/2025	0955	Soil													1		
FIT-003-N-S011-01212025	1/21/2025	1000	Soil													1		
FIT-007-N-S000-01212025	1/21/2025	1010	Soil													1		
FIT-008-N-S000-01212025	1/21/2025	1030	Soil													1		
FIT-006-N-S000-01212025	1/21/2025	1111	Soil													1		

Sampled and Relinquished by		Received by		LIQUID				Sampling Comments	
Sign <i>[Signature]</i>	Print <i>Lack Castillo de Salas</i>	Sign <i>[Signature]</i>	Print <i>Mackey Morris</i>					VOA Vial	
Firm <i>HA</i>	Date <i>01/22/25</i> Time <i>1200</i>	Firm <i>Eurofins</i>	Date <i>1/22/25</i> Time <i>1200</i>					Amber Glass	
								Plastic Bottle	
								Preservative	
								Volume	
Relinquished by		Received by		SOLID					
Sign <i>[Signature]</i>	Print <i>Mackey Morris</i>	Sign <i>[Signature]</i>	Print <i>[Signature]</i>					VOA Vial	
Firm <i>Eurofins</i>	Date <i>1/22/25</i> Time <i>1517</i>	Firm <i>Eurofins</i>	Date <i>1.23.25</i> Time <i>955</i>					Amber Glass	
								Clear Glass	
								Preservative	
								Volume	
				PRESERVATION KEY				Evidence samples were tampered with? YES NO	
				A Sample chilled C NaOH E H ₂ SO ₄ G Methanol				If YES, please explain in section below	
				B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)					

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)		Required Reporting Limits and Data Quality Objectives	
<p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty</p> <p>Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re</p>		<p><input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1</p> <p><input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2</p> <p><input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3</p> <p><input type="checkbox"/> RC-GW2</p>	



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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME STD
H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
FIT-005-N-S000-01212025	1/21/2025	1106	Soil													1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FIT-004-N-S000-01212024	1/21/2025	1100	Soil													1	- TOC: Total Organic Carbon
FIT-004-N-S001-01212024	1/21/2025	1105	Soil	x												1	
FIT-004-N-S003-01212024	1/21/2025	1110	Soil	x												1	
FIT-004-FD-S003-01212024	1/21/2025	1140	Soil	x												1	
FIT-004-N-S006-01212024	1/21/2025	1115	Soil													1	
FIT-004-N-S010-01212024	1/21/2025	1120	Soil													1	
FIT-004-N-S015-01212024	1/21/2025	1125	Soil													1	
FIT-004-N-S016-01212024	1/21/2025	1130	Soil													1	
SRA-003-N-S000-01212025	1/21/2025	1300	Soil													1	

Sampled and Relinquished by		Received by		LIQUID				SAMPLING COMMENTS			
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>							VOA Vial			
Print <i>Cook Castillo de Silva</i>	Print <i>Mackey Morris</i>							Amber Glass			
Firm <i>HA</i>	Firm <i>EET SPO</i>							Plastic Bottle			
Date <i>01/21/25</i> Time <i>1200</i>	Date <i>1/22/25</i> Time <i>1200</i>							Preservative			
								Volume			
Relinquished by		Received by		SOLID				EVIDENCE			
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>							VOA Vial			
Print <i>Mackey Morris</i>	Print <i>[Signature]</i>							Amber Glass			
Firm <i>EET SPO</i>	Firm <i>[Signature]</i>							Clear Glass			
Date <i>1/22/25</i> Time <i>1517</i>	Date <i>1/22/25</i> Time <i>1500</i>							Preservative			
								Volume			
Evidence samples were tampered with? YES NO											
If YES, please explain in section below.											
Relinquished by		Received by		PRESERVATION KEY							
Sign	Sign										
Print	Print										
Firm	Firm			A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol				
Date	Time	Date		B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)				

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify _____) includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are reported.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 4 of 5

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
SRA-003-N-S001-01212025	1/21/2025	1305	Soil	X												1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
SRA-003-N-S003-01212025	1/21/2025	1310	Soil	X												1	- TOC: Total Organic Carbon <i>5.2, 5.16 con (POOLE)</i>
SRA-003-N-S006-01212025	1/21/2025	1315	Soil												1		
SRA-003-N-S010-01212025	1/21/2025	1320	Soil												1		
SRA-003-N-S012-01212025	1/21/2025	1325	Soil												1		
SRA-004A-N-S000-01212025	1/21/2025	1400	Soil												1		
SRA-004A-N-S001-01212025	1/21/2025	1405	Soil	X											1		
SRA-004A-FD-S001-01212025	1/21/2025	1435	Soil	X											1		
SRA-004A-N-S003-01212025	1/21/2025	1410	Soil	X											1		
SRA-004A-N-S006-01212025	1/21/2025	1415	Soil												1		

Sampled and Relinquished by		Received by		LIQUID				Sampling Comments	
Sign <i>[Signature]</i>	Print <i>Cock Castillo dallas</i>	Sign <i>[Signature]</i>	Print <i>Madley Morris</i>					VOA Vial	
Firm <i>HA</i>	Date <i>01/22/25</i> Time <i>1700</i>	Firm <i>EFC SPO</i>	Date <i>1/22/25</i> Time <i>1200</i>					Amber Glass	
								Plastic Bottle	
								Preservative	
								Volume	
Relinquished by		Received by		SOLID					
Sign <i>[Signature]</i>	Print <i>Madley Morris</i>	Sign <i>[Signature]</i>	Print <i>[Signature]</i>					VOA Vial	
Firm <i>EFC SPO</i>	Date <i>1/22/25</i> Time <i>1517</i>	Firm <i>[Signature]</i>	Date <i>1/22/25</i> Time <i>1515</i>					Amber Glass	
								Clear Glass	
								Preservative	
								Volume	
				PRESERVATION KEY				Evidence samples were tampered with? YES NO	
				A Sample chilled C NaOH E H ₂ SO ₄ G Methanol				If YES, please explain in section below.	
				B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)					

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are reported.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 4 of 5

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave. Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS	EPA 1633												
SRA-004B-N-S000-01212025	1/21/2025	1450	Soil													1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
SRA-007A-N-S006-01212025	1/21/2025	1505	Soil													1	- TOC: Total Organic Carbon
SRA-007B-N-S000-01212025	1/21/2025	1515	Soil												1		
SRA-006-N-S000-01212025	1/21/2025	1540	Soil												1		
SRA-006-N-S001-01212025	1/21/2025	1545	Soil	X											1		
SRA-006-N-S006-01212025	1/21/2025	1550	Soil												1		

5,2,5,5 cor 1000 L

Sampled and Relinquished by Sign: (Handwritten) Print: <u>Cocky Castillo</u> Firm: <u>HA</u> Date: <u>01/22/25</u> Time: <u>1200</u>		Received by Sign: (Handwritten) Print: <u>Mackey Morris</u> Firm: <u>EETCS</u> Date: <u>1/22/25</u> Time: <u>1200</u>		LIQUID VOA Vial _____ Amber Glass _____ Plastic Bottle _____ Preservative _____ Volume _____												Sampling Comments
Relinquished by Sign: (Handwritten) Print: <u>Mackey Morris</u> Firm: <u>EETCS</u> Date: <u>1/22/25</u> Time: <u>1517</u>		Received by Sign: (Handwritten) Print: <u>[Signature]</u> Firm: <u>[Signature]</u> Date: <u>1/22/25</u> Time: <u>905</u>		SOLID VOA Vial _____ Amber Glass _____ Clear Glass _____ Preservative _____ Volume _____												
Sign _____ Print _____ Firm _____ Date _____ Time _____		Sign _____ Print _____ Firm _____ Date _____ Time _____		PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered. D HNO ₃ F HCL H Water/NaHSO ₄ (circle)												

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods) If Presumptive Certainty Data Package is needed, initial all sections: _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty. _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re		Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2	
--	--	---	--



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Page 1 of 1

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS	EPA 1633												
EB-01212025	1/21/2025	0715	H2O													3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FB-01212025	1/21/2025	All Day	H2O													2	- TOC: Total Organic Carbon 5.2, 9.10 con WROU

Sampled and Relinquished by: Sign *[Signature]* Received by: Sign *[Signature]* LIQUID Sampling Comments: EB taken from deconned shovel
Print Zack Castilla DeSik Print Mackley Morris
Firm HA Firm *[Signature]*
Date 01/22/25 Time 1200 Date 1/22/25 1200
Volume

Relinquished by: Sign *[Signature]* Received by: Sign *[Signature]* SOLID
Print Mackley Morris Print *[Signature]*
Firm *[Signature]* Firm *[Signature]*
Date 1/22/25 Time 1517 Date 1.22.25 955
Volume

Relinquished by: Sign _____ Received by: Sign _____
Print _____ Print _____
Firm _____ Firm _____
Date _____ Date _____
Volume

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

PRESERVATION KEY
A Sample chilled C NaOH E H₂SO₄ G Methanol
B Sample filtered D HNO₃ F HCL H Water/NaHSO₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
If this Cham of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives
 RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118511

Tracking # 4242 5693 0438

Job _____

SO (PO) FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm. ID LO4 Corr Factor (+/-) 0.17 °C

Ice _____ Wet _____ Gel _____ Other _____

Cooler Custody Seal. 2691567

Cooler ID 2012

Temp Observed 5.9 °C Corrected 5.9 °C

From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials SO Date 1/23/25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples w/o discrepancies?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials SB Date 1/23/25

Notes: NO COC (in the other way)

(17) Rec 2 containers

(17) Rec NO containers

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials SO Date 1/23/25



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Tracking # 424256930407

Job _____

SO / PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID <u>L11</u> Corr Factor (+/-) _____ °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____
Ice <u>1</u> Wet <u>1</u> Gel _____ Other _____	
Cooler Custody Seal: <u>2287456</u>	
Cooler ID: <u>1 2 2</u>	
Temp Observed: <u>0.8</u> °C Corrected <u>0.8</u> °C	
From: Temp Blank <input type="checkbox"/> Sandwich <input checked="" type="checkbox"/> Sidewall <input type="checkbox"/>	
Opening/Processing The Shipment	
Cooler compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
Cooler Temperature is acceptable? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
Frozen samples show signs of thaw? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
Initials <u>[Signature]</u> Date <u>1.23.25</u>	Trizma Lot #(s): _____
Unpacking/Labeling The Samples	Ammonium Acetate Lot #(s): _____
Containers are not broken or leaking? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Samples compromised/tampered with? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
COC is complete w/o discrepancies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample custody seal? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Sample containers have legible labels? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample date/times are provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Appropriate containers are used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample bottles are completely filled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	
Sample preservatives verified? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	
Is the Field Sampler's name on COC? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> NA <u>50/12312</u>	
Samples w/o discrepancies? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <u>50/12312</u>	
Zero headspace? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <u>50/12312</u>	
Alkalinity has no headspace? <u>1/23/25</u> <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	Login Completion
Perchlorate has headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA	Receipt Temperature on COC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <u>50/12312</u>
(Methods 314, 331, 6850)	NCM Filed? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <u>50/12312</u>
Multiphasic samples are not present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA	Samples received within hold time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <u>50/12312</u>
	Log Release checked in TALS? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA <u>50/12312</u>
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")	Initials <u>[Signature]</u> Date <u>1.23.25</u>
Initials <u>[Signature]</u> Date <u>1.23.25</u>	



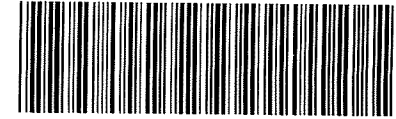
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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														
HFH-004-N-S0005-01232025	1/23/2025	1020	Soil													X	1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
HFH-004-N-S001-01232025	1/23/2025	1025	Soil	X													1	- TOC: Total Organic Carbon
HFH-004-N-S003-01232025	1/23/2025	1030	Soil	X													1	
HFH-004-FD-S003-01232025	1/23/2025	1100	Soil	X													1	
HFH-004-N-S006-01232025	1/23/2025	1035	Soil												X	1		
HFH-004-N-S010-01232025	1/23/2025	1040	Soil	X													1	
HFH-004-FD-S010-01232025	1/23/2025	1110	Soil	X													1	
HFH-005-N-S0005-01232025	1/23/2025	1115	Soil												X	1		
HFH-005-N-S001-01232025	1/23/2025	1120	Soil	X													1	
HFH-005-FD-S001-01232025	1/23/2025	1150	Soil	X													1	



320-118553 Chain of Custody

*Some clay
C&I
1/23/25 rec*

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print <i>Carly K. Costello de Sta</i> Firm <i>HA</i> Date <i>1/23/25</i> Time <i>1700</i>	Sign <i>[Signature]</i> Print <i>Carly K. Costello de Sta</i> Firm <i>HA</i> Date <i>23/25</i> Time <i>1700</i>	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Sign <i>Carly K. Costello de Sta</i> Print <i>Carly K. Costello de Sta</i> Firm <i>HA</i> Date <i>1/24/25</i> Time <i>11:10</i>	Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm <i>HA</i> Date <i>1/24/25</i> Time <i>11:10</i>	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	
Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm <i>[Signature]</i> Date <i>1/24/25</i> Time <i>1200</i>	Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm <i>[Signature]</i> Date <i>1/25/25</i>	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	Evidence samples were tampered with? YES NO If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:	Required Reporting Limits and Data Quality Objectives
<p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.</p> <p>Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are</p>	<p><input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1</p> <p><input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2</p> <p><input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3</p> <p><input type="checkbox"/> RC-GW2</p>

2.10C



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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested														Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633																
HFH-005-N-S003-01232025	1/23/2025	1125	Soil	X														X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
HFH-005-N-S006-01232025	1/23/2025	1130	Soil															X	1	- TOC: Total Organic Carbon
HFH-005-N-S010-01232025	1/23/2025	1135	Soil															X	1	
HFH-003-N-S0005-01232025	1/23/2025	1220	Soil															X	1	
HFH-003-N-S001-01232025	1/23/2025	1225	Soil	X															1	
HFH-003-N-S003-01232025	1/23/2025	1230	Soil	X															1	
HFH-003-N-S006-01232025	1/23/2025	1235	Soil	X															1	
HFH-003-FD-S006-01232025	1/23/2025	1305	Soil	X															1	
HFH-003-N-S010-01232025	1/23/2025	1240	Soil															X	1	
HFH-003-N-S012-01232025	1/23/2025	1245	Soil															X	1	

Sampled and Relinquished by		Received by		LIQUID				SAMPLING COMMENTS			
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>					VOA Vial					
Print <i>Zack C. S. ...</i>	Print <i>C. J. ...</i>					Amber Glass					
Firm <i>HA</i>	Firm <i>HA</i>					Plastic Bottle					
Date <i>1/23/25</i> Time <i>1700</i>	Date <i>1/23/25</i> Time <i>7:07</i>					Preservative					
Relinquished by		Received by						Volume			
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>					SOLID					
Print <i>[Signature]</i>	Print <i>[Signature]</i>					VOA Vial					
Firm <i>HA</i>	Firm <i>Medica</i>					Amber Glass					
Date <i>1/24/25</i> Time <i>11:10</i>	Date <i>1/10/24</i> Time <i>5:4, 5:0</i>					Clear Glass					
Relinquished by		Received by						Preservative			
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>					Evidence samples were tampered with? YES NO					
Print <i>[Signature]</i>	Print <i>[Signature]</i>					If YES, please explain in section below.					
Firm <i>HA</i>	Firm <i>[Signature]</i>					PRESERVATION KEY					
Date <i>1/24/25</i> Time <i>12:00</i>	Date <i>1/25/25</i>					A Sample chilled C NaOH E H ₂ SO ₄ G Methanol					
						B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)					

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are _____

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

*add some clay
GFI
1/23/25
VPC*



Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

Phone (509) 960-7447
Fax (509) 960-7447

Page 3 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested													Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633														
HFH-002-N-S0005-01232025	1/23/2025	1310	Soil													X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
HFH-002-N-S001-01232025	1/23/2025	1315	Soil	X													1	- TOC: Total Organic Carbon
HFH-002-FD-S001-01232025	1/23/2025	1345	Soil	X												1		
HFH-002-N-S003-01232025	1/23/2025	1320	Soil	X												1		
HFH-002-N-S006-01232025	1/23/2025	1325	Soil											X		1		
HFH-002-N-S010-01232025	1/23/2025	1330	Soil											X		1		
HFH-002-N-S012-01232025	1/23/2025	1335	Soil											X		1		
FMB-004-N-S0005-01232025	1/23/2025	1550	Soil											X		1		
FMB-004-N-S001-01232025	1/23/2025	1555	Soil	X												1		
FMB-004-N-S003-01232025	1/23/2025	1600	Soil	X												1		

Handwritten notes:
1/23/25
1700

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print <i>Zugic-Cestrodos</i> Firm <i>HA</i> Date <i>1/23/25</i> Time <i>1700</i>	Sign <i>[Signature]</i> Print <i>Carson Des wine</i> Firm <i>HA</i> Date <i>1/23/25</i> Time <i>1700</i>	VOA Vial Amber Glass Plastic Bottle Preservative Volume <i>54.5-8</i>	
Sign <i>Carson Des wine</i> Print <i>Carson Des wine</i> Firm <i>HA</i> Date <i>1/24/25</i> Time <i>11:10</i>	Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm <i>HA</i> Date <i>1/24/25</i> Time <i>11:10</i>	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume <i>18006</i>	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm <i>HA</i> Date <i>1/24/25</i> Time <i>1700</i>	Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm <i>HA</i> Date <i>1/25/25</i> Time <i>1700</i>	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

Handwritten: 2.10C



Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

Phone (509) 960-7447

Fax (509) 960-7447

Page 4 of 4

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested													Number of Containers	Comments(special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1631	PFAS EPA 1632	PFAS EPA 1633	PFAS EPA 1634	PFAS EPA 1635	PFAS EPA 1636	PFAS EPA 1637	PFAS EPA 1638	PFAS EPA 1639	PFAS EPA 1640	PFAS EPA 1641	PFAS EPA 1642	HOLD		
FMB-004-S006-01232025	1/23/2025	1605	Soil													X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FMB-004-N-S010-01232025	1/23/2025	1610	Soil	X													1	- TOC: Total Organic Carbon
FMB-004-FD-S010-01232025	1/23/2025	1640	Soil	X												1		
FMB-004-FD-S003-01232025	1/23/2025	1630	Soil	X												1		
																1		
																1		

Sampled and Relinquished by		Received by		LIQUID		Sampling Comments	
Sign	Print	Sign	Print	VOA Vial	Amber Glass	Plastic Bottle	Preservative
Firm	Date	Firm	Date		Volume		
Relinquished by		Received by		SOLID		Evidence samples were tampered with? YES NO	
Sign	Print	Sign	Print	VOA Vial	Amber Glass	Clear Glass	Preservative
Firm	Date	Firm	Date		Volume		
Relinquished by		Received by		PRESERVATION KEY			
Sign	Print	Sign	Print	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
Firm	Date	Firm	Date	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)		Required Reporting Limits and Data Quality Objectives	
If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty. Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are		<input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2	

Handwritten notes:
9/21
Soil Class
G&I
1/23/25
V200

Handwritten notes:
with, 5.8
1300



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118553

Tracking #

424256930644

Job _____

SO / PO / FO (SAT) 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID: L-11 Corr Factor (+/-) _____ °C

Ice / Wet / Gel _____ Other _____

Cooler Custody Seal _____

Cooler ID 2022

Temp Observed: 2.1 °C Corrected 2.1 °C

From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment

	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: [Signature] Date: 1.05.05

Unpacking/Labeling The Samples

	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 1.05.05

Notes: _____

5 containers have 1040. COC
have 1035.

Trizma Lot #(s) _____

Ammonium _____

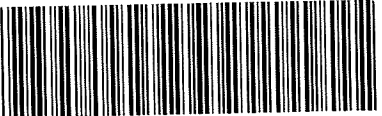
Acetate Lot #(s): _____

Login Completion

	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials [Signature] Date 1.05.05

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633															
EB-01232025	1/23/2025	0715	H2O	X														3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FB-01232025	1/23/2025	All Day	H2O	X														2	TOC: Total Organic Carbon
DW-01232025	1/23/2025	0-00	H2O	X														3	
 320-118554 Chain of Custody																			

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>[Signature]</i> Print <i>[Print Name]</i> Firm <i>[Firm Name]</i> Date <i>[Date]</i> Time <i>[Time]</i>	Sign <i>[Signature]</i> Print <i>[Print Name]</i> Firm <i>[Firm Name]</i> Date <i>[Date]</i> Time <i>[Time]</i>	VOA Vial Amber Glass Plastic Bottle Preservative Volume	EB taken from fresh nitrile gloves DW taken directly from source water on site
Sign <i>[Signature]</i> Print <i>[Print Name]</i> Firm <i>[Firm Name]</i> Date <i>[Date]</i> Time <i>[Time]</i>	Sign <i>[Signature]</i> Print <i>[Print Name]</i> Firm <i>[Firm Name]</i> Date <i>[Date]</i> Time <i>[Time]</i>	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:	Required Reporting Limits and Data Quality Objectives
<input type="checkbox"/> The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty. <input type="checkbox"/> Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. <input type="checkbox"/> This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. <input type="checkbox"/> If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are	<input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2

Handwritten notes:
 1/23/25
 1700

Handwritten notes:
 11/0
 5.4 5.8
 1/20/26



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
18554

Tracking # 424256930644

Job: _____

SO / PO / FO (SAT) 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID: L11 Corr Factor: (+/-) _____ °C
 Ice / Wet / Gel _____ Other _____
 Cooler Custody Seal _____
 Cooler ID: 2022
 Temp Observed: 2.1 °C Corrected 2.1 °C
 From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Initials: <u>[Signature]</u> Date: <u>1.05.05</u>			

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: [Signature] Date: 1.05.05

Notes: _____
3 containers from 1500 coc
time 0000.
1 container from 0900 coc
time 0715

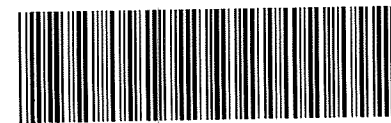
Trizma Lot #(s) _____
 Ammonium Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: [Signature] Date: 1.05.05

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														
FMB-001-N-S0005-01272025	1/27/2025	0945	Soil													X	1	- PFAS Analysis to be conducted by Eurofins Sacramento
FMB-001-N-S001-01272025	1/27/2025	0950	Soil	X													1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FMB-001-FD-S001-01272025	1/27/2025	1020	Soil	X													1	- TOC: Total Organic Carbon
FMB-001-N-S003-01272025	1/27/2025	0955	Soil	X														
FMB-001-N-S006-01272025	1/27/2025	1000	Soil												X	1		
FMB-001-N-S005-01272025	1/27/2025	1005	Soil												X	1		
																1		
																1		
																1		
																1		



320-118632 Chain of Custody

HS Temp: 2.1°C CHL Temp 4.4°C ID# 12006

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <u>[Signature]</u> Print <u>Zack Castillo da Silva</u> Firm <u>Haley Aldrich</u> Date <u>01/27/2025</u> Time <u>1400</u>	Sign <u>[Signature]</u> Print <u>Luke Peden</u> Firm <u>Haley & Aldrich</u> Date <u>1/27/25</u> Time <u>1000</u>	VOA Vial Amber Glass Plastic Bottle Preservative Volume	

Relinquished by	Received by	SOLID	Evidence samples were tampered with? YES NO
Sign <u>[Signature]</u> Print <u>Luke Peden</u> Firm <u>H&A</u> Date <u>1/27/25</u> Time <u>15:20</u>	Sign <u>[Signature]</u> Print <u>Debra U. Brown</u> Firm <u>EPA Spokane</u> Date <u>01/27/25</u> Time <u>15:30</u>	VOA Vial Amber Glass Clear Glass Preservative Volume	If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:	Required Reporting Limits and Data Quality Objectives
<p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.</p> <p>Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are</p>	<p><input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1</p> <p><input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2</p> <p><input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3</p> <p><input type="checkbox"/> RC-GW2</p>



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118632

Tracking #: 4242 5693 0828

Job: _____

SO PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC

Therm. ID: L06 Corr. Factor (+/-) NA°C

Ice _____ Wet _____ Gel _____ Other _____

Cooler Custody Seal: 2691599

Cooler ID: 1 of 2

Temp Observed: 1.3°C Corrected: 1.3°C

From: Temp Blank Sandwich Sidewall

Opening/Processing The Shipment Yes No NA

Cooler compromised/tampered with?

Cooler Temperature is acceptable?

Frozen samples show signs of thaw?

Initials: DM Date: 01/30/25

Unpacking/Labeling The Samples Yes No NA

Containers are not broken or leaking?

Samples compromised/tampered with?

COC is complete w/o discrepancies

Sample custody seal?

Sample containers have legible labels?

Sample date/times are provided?

Appropriate containers are used?

Sample bottles are completely filled?

Sample preservatives verified?

Is the Field Sampler's name on COC?

Samples w/o discrepancies?

Zero headspace?*

Alkalinity has no headspace?

Perchlorate has headspace?

(Methods 314, 331, 6850)

Multiphasic samples are not present?

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DM Date: 01/30/25

Notes: _____

Trizma Lot #(s): _____

Ammonium

Acetate Lot #(s): _____

Login Completion Yes No NA

Receipt Temperature on COC?

NCM Filed?

Samples received within hold time?

Log Release checked in TALS?

Initials DM Date: 01/30/25

WR3-210



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Tracking # 4242 5930839

Job: 320-118632

SO (FO) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC

Therm. ID: <u>LOW</u> Corr Factor (+/-) <u>NA</u> °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____																				
Ice <input checked="" type="checkbox"/> Wet <input checked="" type="checkbox"/> Gel _____ Other _____																					
Cooler Custody Seal: <u>2691594</u>																					
Cooler ID: <u>2 of 2</u>																					
Temp Observed: <u>11.7</u> °C Corrected: <u>11.7</u> °C																					
From: Temp Blank <input type="checkbox"/> Sandwich <input checked="" type="checkbox"/> Sidewall <input type="checkbox"/>																					
Opening/Processing The Shipment																					
Cooler compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA																					
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Frozen samples show signs of thaw? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Initials: <u>DM</u> Date: <u>01/30/25</u>																					
Unpacking/Labeling The Samples	Trizma Lot #(s): _____ _____ _____ Ammonium Acetate Lot #(s): _____ _____ _____																				
Containers are not broken or leaking? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Samples compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA																					
COC is complete w/o discrepancies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample custody seal? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Sample containers have legible labels? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample date/times are provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Appropriate containers are used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample bottles are completely filled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample preservatives verified? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Is the Field Sampler's name on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Samples w/o discrepancies? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Zero headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Alkalinity has no headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Perchlorate has headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA (Methods 314, 331, 6850)																					
Multiphasic samples are not present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")																					
Initials: <u>DM</u> Date: <u>01/30/25</u>	Initials: <u>DM</u> Date: <u>01/30/25</u>																				
<table border="0"> <tr> <td>Login Completion</td> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td>Receipt Temperature on COC?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>NCM Filed?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Samples received within hold time?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Log Release checked in TALS?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		Login Completion	Yes	No	NA	Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Login Completion	Yes	No	NA																		
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																		
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		

WP3-21C

SIGNATURE
DATE 1/28/02



Environment Testing
TestAmerica

2691599

Custody S

EUROFINS ENVIRONMENTAL SPOKANE
11922 E 1ST AVE
SPOKANE VALLEY, WA 99206
UNITED STATES US

CAD: 0941709/CAFE3855

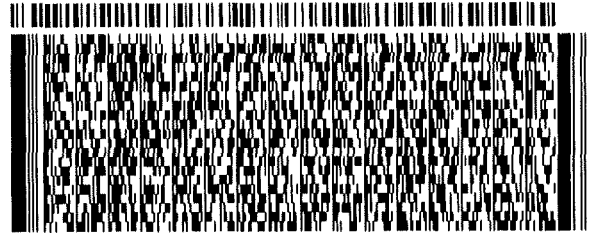
BILL RECIPIENT

Part # 159499-444 MT EX-0925
ERR/CS/FC17/FF20

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING N CAL
880 RIVERSIDE PARKWAY

WEST SACRAMENTO CA 95605

(918) 373-5800 REF:
INV: DEPT:
PO:



FedEx
Express



J243824070401 v1

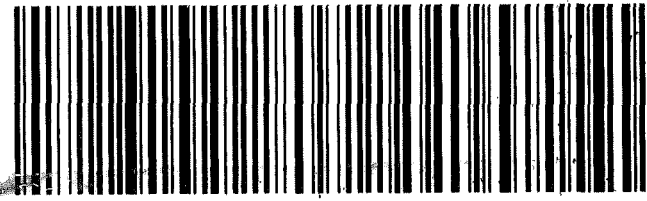
1 of 2

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 4242 5693 0828
0201
MASTER

XS BLUA

95605
CA-US SMF



Seal


[Signature]



Environment Testing
TestAmerica

2691599

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
FMB-003-N-S0005-01242025	1/24/2025	0800	Soil												X	1	- PFAS Analysis to be conducted by Eurofins Sacramento - TOC: Total Organic Carbon  320-118635 Chain of Custody Obs Temp: 6.4°C Con Temp: 6.8°C 10th 1200
FMB-003-N-S001-01242025	1/24/2025	0805	Soil	X											1		
FMB-003-FD-S001-01242025	1/24/2025	0835	Soil	X											1		
FMB-003-N-S003-01242025	1/24/2025	0810	Soil	X											1		
FMB-003-N-S006-01242025	1/24/2025	0815	Soil										X		1		
FMB-003-N-S010-01242025	1/24/2025	0820	Soil	X											1		
FMB-003-FD-S010-01242025	1/24/2025	0850	Soil	X											1		
FMB-003-N-S015-01242025	1/24/2025	0825	Soil										X		1		
FMB-002-N-S0005-01242025	1/24/2025	0900	Soil										X		1		
FMB-002-N-S001-01242025	1/24/2025	0905	Soil	X											1		

Sampled and Relinquished by		Received by	LIQUID	Sampling Comments
Sign: <i>[Signature]</i> Print: Zack Castillo da Silva Firm: Haley Aldrich Date: 01/24/2025 Time: 1400	Sign: <i>[Signature]</i> Print: Luke Peden Firm: H&A Date: 1/24/25 1800		VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by		Received by	SOLID	Evidence samples were tampered with? YES NO
Sign: <i>[Signature]</i> Print: Luke Peden Firm: H&A Date: 1/27/25 Time: 15:20	Sign: <i>[Signature]</i> Print: Tony P... Firm: H&A Date: 1/27/25 15:35		VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by		Received by	PRESERVATION KEY	If YES, please explain in section below.
Sign: <i>[Signature]</i> Print: Macky Morris Firm: EELSP Date: 1/28/25 Time: 1440	Sign: <i>[Signature]</i> Print: D. Morris Firm: EELSP Date: 01/31/25 0930		A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 2 of 6

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	1/27/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	Standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														HOLD
FMB-002-N-S003-01242025	1/24/2025	0910	Soil	X													1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon
FMB-002-N-S006-01242026	1/24/2025	0915	Soil											X		1		
FMB-002-N-S010-01242027	1/24/2025	0920	Soil											X		1		
FMB-002-N-S013-01242028	1/24/2025	0925	Soil											X		1		
CFH-007-N-S000-01242025	1/24/2025	1100	Soil											X		1		
CFH-007-N-S001-01242025	1/24/2025	1105	Soil	X												1		
CFH-007-FD-S001-01242025	1/24/2025	1135	Soil	X												1		
CFH-007-N-S003-01242025	1/24/2025	1110	Soil	X												1		
CFH-006-N-S000-01242025	1/24/2025	1145	Soil											X		1		
CFH-006-N-S001-01242025	1/24/2025	1150	Soil	X												1		

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign: Print: Zack Castillo da Silva Firm: Haley Aldrich Date: 01/24/2025 Time: 1800	Sign: Print: Luke Pedraza Firm: H&A Date: 1/27/25 1800	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	Evidence samples were tampered with? YES NO
Sign: Print: Luke Pedraza Firm: H&A Date: 1/27/25 Time: 15:30	Sign: Print: Tony Pedraza Firm: H&A Date: 1/27/25 15:35	VOA Vial Amber Glass Clear Glass Preservative Volume	If YES, please explain in section below.
Relinquished by	Received by	PRESERVATION KEY	
Sign: Print: Macky Morris Firm: H&A Date: 1/28/25 Time: 1440	Sign: Print: D. Moravcsik Firm: H&A Date: 1/30/25 0930	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/24/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested														Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633															
CFH-005-N-S000-01242025	1/24/2025	1200	Soil														X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
CFH-005-N-S001-01242025	1/24/2025	1205	Soil	X														1	- TOC: Total Organic Carbon
CFH-005-N-S003-01242025	1/24/2025	1210	Soil	X													1		
CFH-005-FD-S003-01242025	1/24/2025	1240	Soil	X													1		
CFH-005-N-S006-01242025	1/24/2025	1215	Soil													X	1		
CFH-004-N-S000-01242025	1/24/2025	1300	Soil													X	1		
CFH-004-N-S001-01242025	1/24/2025	1305	Soil	X													1		
CFH-004-N-S003-01242025	1/24/2025	1310	Soil	X													1		
CFH-004-N-S006-01242025	1/24/2025	1315	Soil													X	1		
CFH-004-N-S010-01242025	1/24/2025	1320	Soil	X													1		

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign: Print: Zack Castillo da Silva Firm: Haley Aldrich Date: 01/24/2025 Time: 14:00	Sign: Print: Luke Pedraza Firm: H&A Date: 1/24/25 18:00	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	
Sign: Print: Luke Pedraza Firm: H&A Date: 1/24/25 Time: 15:20	Sign: Print: Tonya Paul Firm: EPA Date: 1/27/25 13:00	VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by	Received by	PRESERVATION KEY	Evidence samples were tampered with? YES NO
Sign: Print: Mackenzie Morris Firm: H&A Date: 1/28/25 Time: 14:40	Sign: Print: D. Macarini Firm: FELSAE Date: 01/30/25 09:30	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	If YES, please explain in section below.

If Presumptive Certainty Data Package is needed, initial all sections:	Required Reporting Limits and Data Quality Objectives
The required minimum field QC samples, as designated in BWSC CAM VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty	<input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2
Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.	
This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.	
If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.	



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Page 4 of 6

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/24/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633													
CFH-004-FD-S010-01242025	1/24/2025	1350	Soil	X												1	- PFAS Analysis to be conducted by Eurofins Sacramento - TOC: Total Organic Carbon Laboratory to use applicable DEP CAM methods, unless otherwise directed.
CFH-004-N-S015-01242025	1/24/2025	1325	Soil											X	1		
CFH-003-N-S000-01242025	1/24/2025	1415	Soil											X	1		
CFH-003-N-S001-01242025	1/24/2025	1420	Soil	X											1		
CFH-003-N-S003-01242025	1/24/2025	1425	Soil	X											1		
CFH-003-N-S006-01242025	1/24/2025	1430	Soil											X	1		
CFH-003-N-S009-01242025	1/24/2025	1435	Soil	X											1		
CFH-003-FD-S009-01242025	1/24/2025	1505	Soil	X											1		
CFH-002-N-S000-01242025	1/24/2025	1500	Soil											X	1		
CFH-002-N-S001-01242025	1/24/2025	1505	Soil	X											1		

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign Print Zack Castillo da Silva Firm Haley Aldrich Date 01/24/2025 Time 1800	Sign Print Luke Peden Firm H&A Date 1/24/25 1800	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	Evidence samples were tampered with? YES NO
Sign Print Luke Peden Firm H&A Date 1/24/25 Time 15:20	Sign Print Doug Peden Firm H&A Date 1/24/25 1535	VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by	Received by	PRESERVATION KEY	If YES, please explain in section below.
Sign Print Macky Morris Firm H&A Date 1/28/25 Time 1440	Sign Print D. Morris Firm H&A Date 01/28/25 0930	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 5 of 6

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														HOLD
CFH-002-FD-S001-01242025	1/24/2025	1535	Soil	X												X	1	- PFAS Analysis to be conducted by Eurofins Sacramento
CFH-002-N-S003-01242025	1/24/2025	1510	Soil	X													1	- TOC: Total Organic Carbon
CFH-002-N-S006-01242025	1/24/2025	1515	Soil													X	1	
CFH-002-N-S010-01242025	1/24/2025	1520	Soil													X	1	
CFH-002-N-S012-01242025	1/24/2025	1525	Soil													X	1	
CFH-001-N-S000-01242025	1/24/2025	1545	Soil													X	1	
CFH-001-N-S001-01242025	1/24/2025	1550	Soil	X													1	
CFH-001-N-S003-01242025	1/24/2025	1555	Soil	X													1	
CFH-001-N-S006-01242025	1/24/2025	1600	Soil													X	1	
CFH-001-N-S010-01242025	1/24/2025	1605	Soil													X	1	

Sampled and Relinquished by: Sign [Signature] Received by: Sign [Signature] LIQUID Sampling Comments: VOA Vial
Print Zack Castillo da Silva Print Luke Pedra Amber Glass
Firm Haley Aldrich Firm H&A Plastic Bottle
Date 01/24/2025 Time 1800 Date 1/27/25 1800 Preservative
Volume

Relinquished by: Sign [Signature] Received by: Sign [Signature] SOLID Sampling Comments: VOA Vial
Print Luke Pedra Print Tony Paul Amber Glass
Firm H&A Firm STS/SPB Clear Glass
Date 1/27/25 Time 15:20 Date 1/27/25 15:20 Preservative
Volume

Relinquished by: Sign [Signature] Received by: Sign [Signature] PRESERVATION KEY Evidence samples were tampered with? YES NO
Print Macky Morris Print D. Morris If YES, please explain in section below.
Firm STS/SPB Firm STS/SPB
Date 1/28/25 Time 1440 Date 01/30/25 0930

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 6 of 6

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633														
CFH-001-N-S013-01242025	1/24/2025	1610	Soil													X	1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
CFH-006-N-S003-01242025	1/24/2025	1155	Soil	X												X	1	- TOC: Total Organic Carbon

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <u>[Signature]</u> Print <u>Zack Castillo da Silva</u> Firm <u>Haley Aldrich</u> Date <u>01/24/2025</u> Time <u>1400</u>	Sign <u>[Signature]</u> Print <u>Luke Peden</u> Firm <u>H&A</u> Date <u>1/24/25</u> Time <u>1800</u>	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	
Sign <u>[Signature]</u> Print <u>Luke Peden</u> Firm <u>H&A</u> Date <u>1/27/25</u> Time <u>15:20</u>	Sign <u>[Signature]</u> Print <u>che spike</u> Firm <u>Jay-Pine</u> Date <u>1/27/25</u> Time <u>1535</u>	VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by	Received by		Evidence samples were tampered with? YES NO
Sign <u>[Signature]</u> Print <u>Mackay Adams</u> Firm <u>EST SPO</u> Date <u>1/28/25</u> Time <u>1440</u>	Sign <u>[Signature]</u> Print <u>D. Monahan</u> Firm <u>EST SPO</u> Date <u>6/30/25</u> Time <u>8920</u>	Preservative Volume	If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118635

Tracking # 4242 5693 0828

Job: _____

SO PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID: L06 Corr Factor (+/-) NA°C

Ice _____ Wet _____ Gel _____ Other _____

Cooler Custody Seal: 2691599

Cooler ID: 1 of 2

Temp Observed 1.3°C Corrected 1.3°C

From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: DM Date: 01/30/25

Unpacking/Labeling The Samples	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DM Date: 01/30/25

Notes: _____

Trizma Lot #(s): _____

Ammonium

Acetate Lot #(s) _____

Login Completion	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials: DM Date: 01/30/25

WSP-3-21C



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Tracking # 4242 5930839

Job: 320-118635

SO (P) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations
File in the job folder with the COC

Therm ID 206 Corr Factor: (+/-) NA °C

Ice / Wet / Gel _____ Other _____

Cooler Custody Seal 2691594

Cooler ID 2 of 2

Temp Observed: 11.7 °C Corrected 11.7 °C

From Temp Blank Sandwich Sidewall

Opening/Processing The Shipment Yes No NA

Cooler compromised/tampered with?

Cooler Temperature is acceptable?

Frozen samples show signs of thaw?

Initials DM Date: 01/30/25

Unpacking/Labeling The Samples Yes No NA

Containers are not broken or leaking?

Samples compromised/tampered with?

COC is complete w/o discrepancies

Sample custody seal?

Sample containers have legible labels?

Sample date/times are provided?

Appropriate containers are used?

Sample bottles are completely filled?

Sample preservatives verified?

Is the Field Sampler's name on COC?

Samples w/o discrepancies?

Zero headspace?*

Alkalinity has no headspace?

Perchlorate has headspace?

(Methods 314, 331, 6850)

Multiphasic samples are not present?

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DM Date 01/30/25

Notes: #14: FMB-002-N-S013-01242025

#13, #12

#38: No "-FD-"

CFH-003-N-S009-01242025

Sample #25 not received.

Trizma Lot #(s) _____

Ammonium

Acetate Lot #(s): _____

Login Completion Yes No NA

Receipt Temperature on COC?

NCM Filed?

Samples received within hold time?

Log Release checked in TALS?

Initials DM Date 01/30/25

WR3-21C

SIGNATURE
DATE 1/28/02

eurofins | Environment Testing
TestAmerica

2691599

Custody S

EUROFINS ENVIRONMENTAL SPOKANE
11922 E 1ST AVE
SPOKANE VALLEY, WA 99206
UNITED STATES US

CAD: 0941709/CAFÉ3855

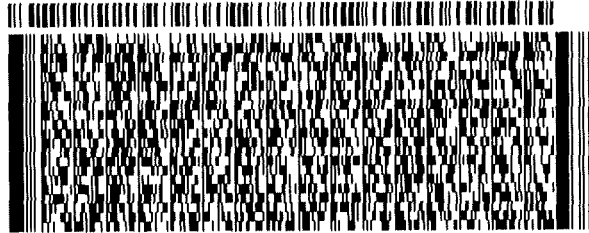
BILL RECIPIENT

Par = 152430-441 EXP 02-5
SR03/FC17/FF70

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING N CAL
880 RIVERSIDE PARKWAY

WEST SACRAMENTO CA 95605

(916) 373-6800 REF:
INV: DEPT:

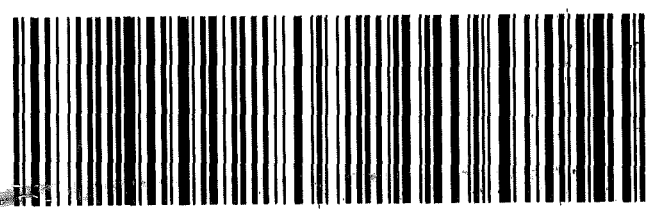


1 of 2
TRK# 4242 5693 0828
0201
MASTER

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

XS BLUA

95605
CA-US SMF



deal

[Handwritten signature]

eurofins | Environment Testing
TestAmerica

2691599




Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

Phone (509) 960-7447

Fax (509) 960-7447

Page 1 of 1

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	1/24/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave. Spokane Valley, WA 99206	TURNAROUND TIME	Standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
FB-01242025	1/24/2025	All Day	H2O	X												2	PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. TOC: Total Organic Carbon
 320-118638 Chain of Custody																	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments:
Sign: <i>[Signature]</i> Print: Zack Castillo da Silva Firm: Haley Aldrich Date: 01/24/2025 Time: 1400	Sign: <i>[Signature]</i> Print: Luke Pede Firm: H&A Date: 1/24/25 1800	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by Sign: <i>[Signature]</i> Print: Luke Pede Firm: H&A Date: 1/27/25 Time: 15:20	Received by Sign: <i>[Signature]</i> Print: Ocean Park Firm: CHA Spike Date: 1/27/25 1535	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by Sign: <i>[Signature]</i> Print: Macky Mons Firm: EETS Date: 1/28/25 Time: 446	Received by Sign: <i>[Signature]</i> Print: D. Morrison Firm: EETS Date: 1/30/25 0930	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	Evidence samples were tampered with? YES NO If YES, please explain in section below.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118638

Tracking # 4242 5693 0828

Job: _____

SO PO / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC

<p>Therm. ID: <u>L06</u> Corr. Factor (+/-) <u>NA</u>°C</p> <p>Ice _____ Wet _____ Gel _____ Other _____</p> <p>Cooler Custody Seal: <u>2691599</u></p> <p>Cooler ID: <u>1 of 2</u></p> <p>Temp Observed: <u>1.3</u>°C Corrected: <u>1.3</u>°C</p> <p>From: Temp Blank <input type="checkbox"/> Sandwich <input checked="" type="checkbox"/> Sidewall <input type="checkbox"/></p> <p>Opening/Processing The Shipment</p> <table><thead><tr><th></th><th>Yes</th><th>No</th><th>NA</th></tr></thead><tbody><tr><td>Cooler compromised/tampered with?</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Cooler Temperature is acceptable?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Frozen samples show signs of thaw?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr></tbody></table> <p>Initials <u>DM</u> Date: <u>01/30/25</u></p> <p>Unpacking/Labeling The Samples</p> <table><thead><tr><th></th><th>Yes</th><th>No</th><th>NA</th></tr></thead><tbody><tr><td>Containers are not broken or leaking?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Samples compromised/tampered with?</td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>COC is complete w/o discrepancies</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Sample custody seal?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Sample containers have legible labels?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Sample date/times are provided?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Appropriate containers are used?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Sample bottles are completely filled?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Sample preservatives verified?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Is the Field Sampler's name on COC?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Samples w/o discrepancies?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Zero headspace?*</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Alkalinity has no headspace?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Perchlorate has headspace? 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(Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<p>Notes: _____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Trizma Lot #(s): _____</p> <p>_____</p> <p>Ammonium Acetate Lot #(s): _____</p> <p>_____</p> <p>Login Completion</p> <table><thead><tr><th></th><th>Yes</th><th>No</th><th>NA</th></tr></thead><tbody><tr><td>Receipt Temperature on COC?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>NCM Filed?</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input checked="" type="checkbox"/></td></tr><tr><td>Samples received within hold time?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr><tr><td>Log Release checked in TALS?</td><td><input checked="" type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr></tbody></table> <p>Initials: <u>DM</u> Date: <u>01/30/25</u></p>		Yes	No	NA	Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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WR3-21C



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Tracking # 4242 5930839

Job: 320-118638

SO (PO) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC

Therm ID: LOW Corr Factor (+/-) NA °C

Ice / Wet / Gel / Other

Cooler Custody Seal: 2691594

Cooler ID: 2 of 2

Temp Observed: 11.7 °C Corrected: 11.7 °C

From: Temp Blank [] Sandwich [x] Sidewall []

Opening/Processing The Shipment Yes No NA

Cooler compromised/tampered with? [] [x] []

Cooler Temperature is acceptable? [x] [] []

Frozen samples show signs of thaw? [] [] [x]

Initials: DM Date: 01/30/25

Unpacking/Labeling The Samples Yes No NA

Containers are not broken or leaking? [x] [] []

Samples compromised/tampered with? [] [x] []

COC is complete w/o discrepancies [x] [] []

Sample custody seal? [] [] [x]

Sample containers have legible labels? [x] [] []

Sample date/times are provided? [x] [] []

Appropriate containers are used? [x] [] []

Sample bottles are completely filled? [x] [] []

Sample preservatives verified? [] [] [x]

Is the Field Sampler's name on COC? [] [] [x]

Samples w/o discrepancies? [x] [] []

Zero headspace?* [] [] [x]

Alkalinity has no headspace? [] [] [x]

Perchlorate has headspace? [] [] [x]

(Methods 314, 331, 6850)

Multiphasic samples are not present? [x] [] []

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DM Date: 01/30/25

Notes:

Trizma Lot #(s):

Ammonium

Acetate Lot #(s):

Login Completion

Receipt Temperature on COC? [x] [] []

NCM Filed? [] [] [x]

Samples received within hold time? [x] [] []

Log Release checked in TALS? [x] [] []

Initials: DM Date: 01/30/25

WR-3-210

SIGNATURE
1/28/09
DATE

eurofins | Environment Testing
TestAmerica

2691599

Custody S

EUROFINS ENVIRONMENTAL SPOKANE
11922 E 1ST AVE
SPOKANE VALLEY, WA 99206
UNITED STATES US

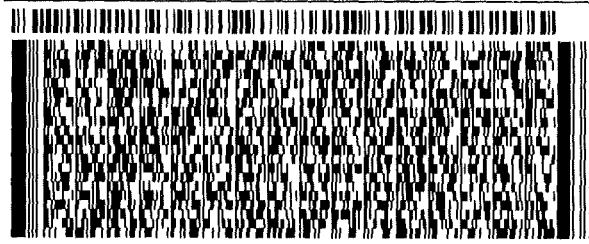
CAD: 0941709/CAFE3855
BILL RECIPIENT

PART # 150489
SERIES/FCT/FF2
EXP 09

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING N CAL
880 RIVERSIDE PARKWAY

WEST SACRAMENTO CA 95605

(916) 373-5600 REF:
THV: DEPT:
PO:

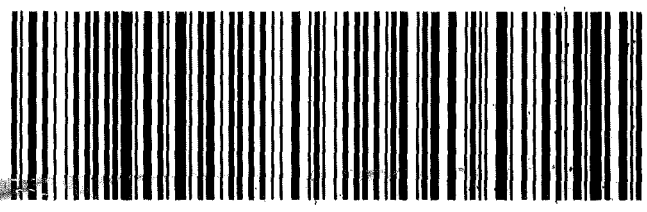


1 of 2
TRK# 4242 5693 0828
0201
MASTER

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

XS BLUA

95605
CA-US SMF




deal

eurofins | Environment Testing
TestAmerica

2691599

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	1/27/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave. Spokane Valley, WA 99206	TURNAROUND TIME	Standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633													
FB-01272025	1/27/2025	All Day	H2O	X												2	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
EB-01272025	1/27/2025	0900		X												3	- TOC: Total Organic Carbon
 320-118639 Chain of Custody																	

Relinquished by Sign: <i>[Signature]</i> Print: Zack Castillo da Silva Firm: Haley Aldrich Date: 01/27/2025 Time: 1400	Received by Sign: <i>[Signature]</i> Print: Luke Peden Firm: H&A Date: 1/27/25 1400	LIQUID VOA Vial Amber Glass Plastic Bottle Preservative Volume	Sampling Comments:
---	--	--	---------------------------

Relinquished by Sign: <i>[Signature]</i> Print: Luke Peden Firm: H&A Date: 1/27/25 Time: 15:20	Received by Sign: <i>[Signature]</i> Print: <i>[Signature]</i> Firm: <i>[Signature]</i> Date: 1/27/25 15:30	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
---	--	--	---

Relinquished by Sign: <i>[Signature]</i> Print: Macky Morris Firm: <i>[Signature]</i> Date: 1/28/25 Time: 1440	Received by Sign: <i>[Signature]</i> Print: <i>[Signature]</i> Firm: <i>[Signature]</i> Date: 1/31/25 0930	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)
---	---	--

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty. Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are	Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2
---	---

Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Loc: 320
118639

Tracking # 4242 5693 0828

Job _____

SO (PO) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other _____

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC

Therm. ID: L06 Corr. Factor (+/-) NA°C
Ice _____ Wet _____ Gel _____ Other _____
Cooler Custody Seal: 2691599
Cooler ID: 1 of 2
Temp Observed: 1.3°C Corrected: 1.3°C
From: Temp Blank Sandwich Sidewall

Opening/Processing The Shipment

	Yes	No	NA
Cooler compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Cooler Temperature is acceptable?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Frozen samples show signs of thaw?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Initials: DM Date: 01/30/25

Unpacking/Labeling The Samples

	Yes	No	NA
Containers are not broken or leaking?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples compromised/tampered with?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
COC is complete w/o discrepancies	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample custody seal?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sample containers have legible labels?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample date/times are provided?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Appropriate containers are used?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample bottles are completely filled?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample preservatives verified?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is the Field Sampler's name on COC?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples w/o discrepancies?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zero headspace?*	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Alkalinity has no headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Perchlorate has headspace? (Methods 314, 331, 6850)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Multiphasic samples are not present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

Initials: DM Date: 01/30/25

Notes: _____

Trizma Lot #(s): _____

Ammonium

Acetate Lot #(s): _____

Login Completion

	Yes	No	NA
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Initials: DM Date: 01/30/25

WR3-21C



Environment Testing

Sacramento Sample Receiving Notes (SSRN)

Tracking # . 4242 5930839

Job: 320-118639

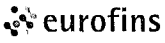
SO (PO) / FO / SAT / 2-Day / Ground / UPS / CDO / Courier
GSL / OnTrac / Goldstreak / USPS / Other

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC

Therm ID: <u>LOL</u> Corr Factor (+/-) <u>NA</u> °C	Notes: _____ _____ _____ _____ _____ _____ _____ _____ _____ _____																				
Ice <input checked="" type="checkbox"/> Wet <input checked="" type="checkbox"/> Gel _____ Other _____																					
Cooler Custody Seal: <u>2691594</u>																					
Cooler ID: <u>2 of 2</u>																					
Temp Observed: <u>11.7</u> °C Corrected: <u>11.7</u> °C																					
From: Temp Blank <input type="checkbox"/> Sandwich <input checked="" type="checkbox"/> Sidewall <input type="checkbox"/>																					
Opening/Processing The Shipment																					
Cooler compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA																					
Cooler Temperature is acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Frozen samples show signs of thaw? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Initials: <u>DM</u> Date: <u>01/30/25</u>																					
Unpacking/Labeling The Samples	Trizma Lot #(s): _____ _____ _____ Ammonium Acetate Lot #(s): _____ _____ _____																				
Containers are not broken or leaking? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Samples compromised/tampered with? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA																					
COC is complete w/o discrepancies <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample custody seal? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Sample containers have legible labels? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample date/times are provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Appropriate containers are used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample bottles are completely filled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Sample preservatives verified? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Is the Field Sampler's name on COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Samples w/o discrepancies? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
Zero headspace?* <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Alkalinity has no headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA																					
Perchlorate has headspace? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA (Methods 314, 331, 6850)																					
Multiphasic samples are not present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA																					
*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")																					
Initials: <u>DM</u> Date: <u>01/30/25</u>	Initials: <u>DM</u> Date: <u>01/30/25</u>																				
<table border="0"> <tr> <td>Login Completion</td> <td>Yes</td> <td>No</td> <td>NA</td> </tr> <tr> <td>Receipt Temperature on COC?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>NCM Filed?</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> </tr> <tr> <td>Samples received within hold time?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Log Release checked in TALS?</td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		Login Completion	Yes	No	NA	Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Login Completion	Yes	No	NA																		
Receipt Temperature on COC?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
NCM Filed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>																		
Samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		
Log Release checked in TALS?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																		

WP3-21C

SIGNATURE
DATE 1/28/06



Environment Testing
TestAmerica

2691599

Custody S

EUROFINS ENVIRONMENTAL SPOKANE
11922 E 1ST AVE
SPOKANE VALLEY, WA 99206
UNITED STATES US

CAD: 0941709/CAFE3855

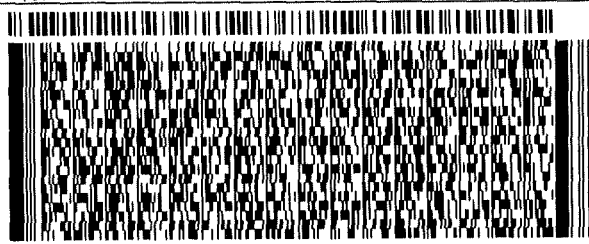
BILL RECIPIENT

Part 50490-44 INT EXP-0205
SARC3/ECT17/FF70

TO SHIPPING/RECEIVING
EUROFINS ENVIRONMENT TESTING N CAL
880 RIVERSIDE PARKWAY

WEST SACRAMENTO CA 95605

(916) 373-5800 REF:
INU: DEPT:
PO:



FedEx
Express



124382407040104

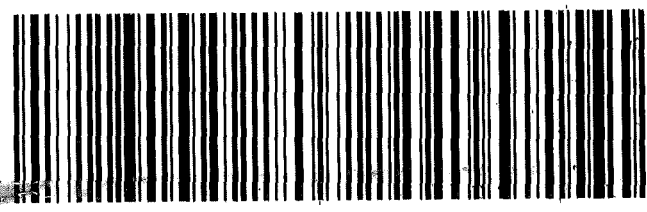
1 of 2

WED - 29 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 4242 5693 0828
0201
MASTER

XS BLUA

95605
CA-US SMF



Seal

[Handwritten signature]

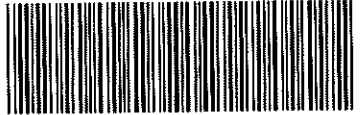


Environment Testing
TestAmerica

2691599

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

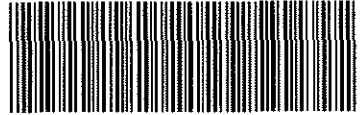
Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B								
LA-MW 8-N-01082025	1/6/25	10:05	H ₂ O	X	X	X	X	X							6	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻ - Alkalinity to be measured by titration 2, 8, 33 cor Water
LA-MW 10-N-01082025	1/6/25	11:15	H ₂ O	X	X	X	X	X						6		
LA-MW 10-FD-01082025	1/6/25	11:30	H ₂ O	X	X	X	X	X						6		
LA-MW 9-N-01082025	1/6/25	12:40	H ₂ O	X	X	X	X	X						6		
LA-MW 12-N-01082025	1/6/25	13:30	H ₂ O	X	X	X	X	X						6		
LA-MW 11-N-01082025	1/6/25	14:20	H ₂ O	X	X	X	X	X						6		
W-MW 17-N-01082025	1/6/25	16:15	H ₂ O	X	X	X	X	X						6		
FB 01082025	1/6/25		H ₂ O	X										1		
EB-01082025	1/6/25	16:25	H ₂ O	X										3		

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <i>Breeyn Greer</i> Print Breeyn Greer Firm HA Date 1/7/25 Time 0900	Sign <i>Mackey Mome</i> Print Mackey Mome Firm EEL 870 Date 1/7/25 900	VOA Vial Amber Glass Plastic Bottle Preservative Volume	 590-28824 Chain of Custody
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date	SOLID	
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date	VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
PRESERVATION KEY			
A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)			

If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are	Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods) Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2
---	---

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B								
W MW 15 N-010725	1/7/25	9 35	H ₂ O		X	X	X	X							3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻ - Alkalinity to be measured by <u>titration</u> <i>3.9.21 4 com 11/20/25</i>
EA MW 14A-N-01072025	1/7/25	12 35	H ₂ O		X	X	X	X							3	
EA MW-14B-N-01072025	1/7/25	13 40	H ₂ O		X	X	X	X							3	
EA-MW-13A N-01072025	1/7/25	14 50	H ₂ O		X	X	X	X							3	
EA MW-13A FD-01072025	1/7/25	15 20	H ₂ O		X	X	X	X							3	

Sampled and Relinquished by _____	Received by _____	LIQUID	Sampling Comments
Sign _____ Print <i>Cock Castillo S/L</i> Firm _____ Date <i>1/7/25</i> Time <i>1643</i>	Sign _____ Print <i>Maehy Wong</i> Firm _____ Date <i>1/7/25</i> Time <i>11044</i>	VOA Vial Amber Glass Plastic Bottle Preservative Volume	 590-28851 Chain of Custody
Relinquished by _____	Received by _____	SOLID	
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____	VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by _____	Received by _____	PRESERVATION KEY	
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.


If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
EA-MW-13B-N-01082025	1/8/25	10:35	H ₂ O		X	X	X	X								3	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻ - Alkalinity to be measured by <u>titration</u> 2.4.2.8 less 1000
EA-MW-8A-N-01082025	1/8/25	12:00	H ₂ O		X	X	X	X								3	
EA-MW-5A-N-01082025	1/8/25	13:15	H ₂ O		X	X	X	X								3	
EA-MW-5A-FD-01082025	1/8/25	13:30	H ₂ O		X	X	X	X								3	
SWN-MW-721-N-01082025	1/8/25	14:55	H ₂ O		X	X	X	X								3	

Sampled and Relinquished by Sign <i>Breeyn Greer</i> Print Breeyn Greer Firm H&A Date 1/9/25 Time 1050	Received by Sign <i>Mackey Morris</i> Print Mackey Morris Firm EEL & PO Date 1/9/25 1050	LIQUID VOA Vial Amber Glass Plastic Bottle Preservative Volume	Sampling Comments  590-28892 Chain of Custody
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are _____

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

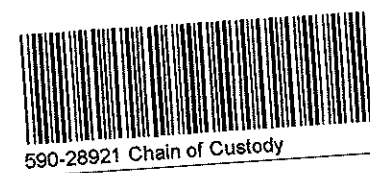
Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE ~~1/10/25~~ 1/10/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME Standards
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B								
SWN-MW-7-N-01092025	1/9/25	9:45	H ₂ O		X	X	X	X							5303	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻ - Alkalinity to be measured by <u>titration</u> 2-3, 27 corr 1/20/25
SWN-MW-7-FD-01092025	1/9/25	10:15	H ₂ O		X	X	X	X							3	
SWN-MW-4-N-01092025	1/9/25	11:15	H ₂ O		X	X	X	X							3	
SWN-MW-6-N-01092025	1/9/25	12:15	H ₂ O		X	X	X	X							3	
SWN-MW-14-N-01092025	1/9/25	13:10	H ₂ O		X	X	X	X							3	
SWN-MW-13-N-01092025	1/9/25	14:10	H ₂ O		X	X	X	X							3	
FGF-MW-18-N-01092025	1/9/25	15:30	H ₂ O		X	X	X	X							3	

Sampled and Relinquished by		Received by		LIQUID										Sampling Comments		
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>															VOA Vial
Print <i>Luke Peden</i>	Print <i>Blacky Morris</i>															Amber Glass
Firm <i>Haley & Aldrich</i>	Firm <i>H&A</i>															Plastic Bottle
Date <i>1/10/25</i> Time <i>12:15</i>	Date <i>1/10/25</i> Time <i>12:14</i>															Preservative
Relinquished by		Received by		SOLID										Evidence samples were tampered with? YES NO		
Sign	Sign															Volume
Print	Print															VOA Vial
Firm	Firm															Amber Glass
Date Time	Date															Clear Glass
Relinquished by		Received by		PRESERVATION KEY										If YES, please explain in section below		
Sign	Sign			A Sample chilled		C NaOH		E H ₂ SO ₄		G Methanol						
Print	Print			B Sample filtered		D HNO ₃		F HCL		H Water/NaHSO ₄ (circle)						
Firm	Firm															
Date Time	Date															



If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/10/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
SWN-MW A N 01092015	1/9/25	10 20	H ₂ O		X	X	X	X								3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
SWN-MW 3 N 01092015	1/9/25	12 25			X	X	X	X									- Cations to be analyzed Ca, Mg, K, Na
SWN-MW 1 N 01092015	1/9/25	14 30			X	X	X	X									- Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻
SWN-MW 2 N 01092015	1/9/25	15 40			X	X	X	X									- Alkalinity to be measured by titration

11.1.5 cam 1000

Sampled and Relinquished by		Received by		LIQUID										Sampling Comments			
Sign <u>[Signature]</u>	Sign <u>[Signature]</u>																VOA Vial
Print <u>Luke Peter</u>	Print <u>Wacky Morris</u>																Amber Glass
Firm <u>H & A</u>	Firm <u>[Signature]</u>																Plastic Bottle
Date <u>1/10/25</u> Time <u>12 15</u>	Date <u>1/10/25</u> Time <u>12 14</u>																Preservative
																	Volume

Relinquished by		Received by		SOLID										Evidence samples were tampered with? YES NO			
Sign	Sign																
Print	Print																
Firm	Firm																
Date	Date																

Relinquished by		Received by		PRESERVATION KEY										If YES, please explain in section below.			
Sign	Sign																
Print	Print																
Firm	Firm																
Date	Date																

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 11/10/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
SWN-MW-5-N-01102025	11/10/25	7:35	H ₂ O		X	X	X	X								3	- PFAS Analysis to be conducted by Eurofins Sacramento
PD-MW-1A-N-01102025	11/10/25	8:20	H ₂ O		X	X	X	X									Laboratory to use applicable DEP CAM methods, unless otherwise directed.
GDF-GR-8-N-01102025	11/10/25	10:15	H ₂ O		X	X	X	X									- Cations to be analyzed Ca, Mg, K, Na
GDF-GR-7D-N-01102025	11/10/25	11:05	H ₂ O		X	X	X	X									- Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻
GDF-GR-7S-N-01102025	11/10/25	10:05	H ₂ O		X	X	X	X									- Alkalinity to be measured by filtration
SWN-MW-5-N-01102025	11/10/25	8:05	H ₂ O		X	X	X	X									

24, 2.86m 1 PCOLY

Sampled and Relinquished by		Received by		LIQUID										Sampling Comments	
Sign <i>[Signature]</i>		Sign <i>[Signature]</i>												VOA Vial	
Print <i>Luke Peden</i>		Print <i>BECSPO</i>												Amber Glass	
Firm <i>H&A</i>		Firm <i>MackayMorris</i>												Plastic Bottle	
Date <i>11/10/25</i> Time <i>12:15</i>		Date <i>11/10/25</i> Time <i>12:14</i>												Preservative	
Relinquished by		Received by		SOLID										Volume	
Sign		Sign												VOA Vial	
Print		Print												Amber Glass	
Firm		Firm												Clear Glass	
Date		Date												Preservative	
Relinquished by		Received by												Volume	
Sign		Sign												Evidence samples were tampered with? YES NO	
Print		Print												If YES, please explain in section below	
Firm		Firm													
Date		Date													

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are


Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
GEF MW 5D N-01132025	1/13/25	12 40	H ₂ O		X	X	X	X								3 #LP	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
EA-MW 5B N-01132025	1/13/25	15 3			X	X	X	X									- Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed Cl, NO ₃ ⁻ , SO ₄ ²⁻ - Alkalinity to be measured by titration
GEF-MW 13 N-01132025	1/13/25	10 10			X	X	X	X									
GEF MW 5 N-01132025	1/13/25	11 40			X	X	X	X									
GEF-MW 5FD-01132025	1/13/25	12 10			X	X	X	X									
GEF MW 11 N-01132025	1/13/25	13 05			X	X	X	X									
GEF MW 7 N-01132025	1/13/25	14 45			X	X	X	X									
GEF-MW 11B N-01132025	1/13/25	16 10			X	X	X	X									

28,32 con 1000L

Sampled and Relinquished by		Received by	LIQUID											Sampling Comments			
Sign <i>Breeyn Greer</i>	Sign <i>MLO</i>															VOA Vial Amber Glass Plastic Bottle Preservative Volume	 590-28940 Chain of Custody Evidence samples were tampered with? YES NO If YES, please explain in section below
Print Breeyn Greer	Print MLO																
Firm EA	Firm EBT/STO																
Date 1/14/25 Time 0950	Date 1/14/25 0950																
Relinquished by		Received by	SOLID														
Sign	Sign														VOA Vial Amber Glass Clear Glass Preservative Volume		
Print	Print																
Firm	Firm																
Date Time	Date																
Relinquished by		Received by	PRESERVATION KEY														
Sign	Sign		A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)														
Print	Print																
Firm	Firm																
Date Time	Date																

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
EA-MW-8B-N-01142025	1/14/25	11:50	H ₂ O		X	X	X	X								3 <i>wsp</i>	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed. Cl, NO ₃ , SO ₄ ²⁻ - Alkdlinity to be measured by <u>titration</u>
GDF-GR-5-N-01142025	1/14/25	14:05			X	X	X	X									
GCF-MW-11A-N-01142025	1/14/25	10:35			X	X	X	X									
GCF-MW-12A-N-01142025	1/14/25	11:55			X	X	X	X									
GCF-MW-12A-FD-01142025	1/14/25	12:25			X	X	X	X									
GCF-MW-12B-N-01142025	1/14/25	13:15			X	X	X	X									
GDF-MW-10A-N-01142025	1/14/25	14:30			X	X	X	X									
GDF-MW-10R-N-01142025	1/14/25	15:15			X	X	X	X									

2.8, 3.2 corr 1000

Sampled and Relinquished by		Received by		LIQUID										Sampling Comments			
Sign <i>Breeyn Greer</i>	Sign <i>Wendy Adams</i>																
Print Breeyn Greer	Print Wendy Adams																
Firm HA	Firm BSEZSPO																
Date 1/15/25 Time 1550	Date 1/15/25 1550																
Relinquished by		Received by		SOLID										Evidence samples were tampered with? YES NO			
Sign	Sign																
Print	Print																
Firm	Firm																
Date Time	Date																
Relinquished by		Received by		PRESERVATION KEY										IF YES, please explain in section below			
Sign	Sign																
Print	Print																
Firm	Firm																
Date Time	Date																



590-28985 Chain of Custody

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2


H&A FILE NO. 0209800-001
PROJECT NAME Geiger Field PFAS Support
H&A CONTACT Breeyn Greer

LABORATORY Eurofins Environmental Testing
ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206
CONTACT Rande Arrington

DELIVERY DATE 1/16/25
TURNAROUND TIME Standard
PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 308.0	Alkalinity SM 2320 B									
GDF-GR-2-N-01152025	1/15/25	9:45	H ₂ O		X	X	X	X								3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻ - Alkalinity to be measured by titration
GDF-GR-2-FD-01152025	1/15/25	9:55			X	X	X	X									
GDF-GR-3-N-01152025	1/15/25	9:05			X	X	X	X									
GDF-GR-4-N-01152025	1/15/25	10:45			X	X	X	X									

19.1.5000 1/20/25

Sampled and Relinquished by		Received by		LIQUID										Sampling Comments			
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>																VOA Vial Amber Glass Plastic Bottle Preservative Volume  590-29005 Chain of Custody
Print Luke Peden	Print Mackey Moore																
Firm Haley & Aldrich	Firm EBCSPO																
Date 1/16/25 Time 13:32	Date 1/16/25 13:30																
Relinquished by		Received by		SOLID										Evidence samples were tampered with? YES NO			
Sign	Sign																If YES, please explain in section below.
Print	Print																
Firm	Firm																
Date Time	Date																
Relinquished by		Received by		PRESERVATION KEY													
Sign	Sign																
Print	Print																
Firm	Firm																
Date Time	Date																

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)


If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	1/17/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley WA 99206	TURNAROUND TIME	Standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer


Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	Cations EPA 200.7	Anions EPA 300.0	Bromide EPA 300.0	Alkalinity SM 2320 B									
GCF-MW-8-N-01172025	1/17/25	8 55	H ₂ O		X	X	X	X								3	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed - Cations to be analyzed Ca, Mg, K, Na - Anions to be analyzed Cl, NO ₃ , SO ₄ ²⁻ - Alkalinity to be measured by titration 37 4.1 con 11/10/24
GCF-MW-8-FD-01172025	1/17/25	9 25	H ₂ O		X	X	X	X								3	
EA-MW 7B-N-01172025	1/17/25	9 16	H ₂ O		X	X	X	X								3	
EA-MW 7A-N-01172025	1/17/25	10 40	H ₂ O		X	X	X	X								3	
GCF-MW 10 N-01172025	1/17/25	10:45	H ₂ O		X	X	X	X								3	

Sampled and Relinquished by	Received by	LIQUID										VOA Vial	Sampling Comments		
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>														Amber Glass
Print Luke Perten	Print Madelyn Morris													Plastic Bottle	
Firm Haley & Aldrich	Firm 852 230													Preservative	
Date 1/17/25 Time 12 25	Date 1/17/25 12 23													Volume	
Relinquished by	Received by	SOLID										VOA Vial	 590-29041 Chain of Custody Evidence samples were tampered with? YES NO If YES, please explain in section below		
Sign	Sign														Amber Glass
Print	Print														Clear Glass
Date Time	Date														Preservative
Relinquished by	Received by	PRESERVATION KEY										Volume			
Sign	Sign	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol										
Print	Print	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)										
Firm	Firm														
Date Time	Date														

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)		Required Reporting Limits and Data Quality Objectives	
If Presumptive Certainty Data Package is needed, initial all sections: _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are		<input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2	

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content										
LTA-001-N-S000-01152025	1/15/2025	8:05	Soil												X	3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
LTA-001-N-S001-01152025	1/15/2025	8:10	Soil	X	X	X										3	- TOC: Total Organic Carbon 33.3 Turn 1P204 54.5 Turn 1P204
LTA-001-N-S003-01152025	1/15/2025	8:15	Soil	X	X	X									3		
LTA-001-N-S006-01152025	1/15/2025	8:20	Soil											X	3		
LTA-001-N-S010-01152025	1/15/2025	8:25	Soil											X	3		
LTA-001-N-S012-01152025	1/15/2025	8:30	Soil											X	3		
LTA-001-FD-S012-01152025	1/15/2025	9:00	Soil											X	3		
LTA-002-N-S000-01152025	1/15/2025	9:20	Soil											X	3		
LTA-002-N-S001-01152025	1/15/2025	9:25	Soil	X	X	X									3		
LTA-002-N-S003-01152025	1/15/2025	9:30	Soil	X	X	X									3		

Sampled and Relinquished by	Received by	LIQUID										Sampling Comments				
Sign <i>[Signature]</i> Print <i>Luke Peden</i> Firm <i>Haley & Aldrich</i> Date <i>1/16/25</i> Time <i>13:30</i>	Sign <i>[Signature]</i> Print <i>MacKay Morris</i> Firm <i>ESTC</i> Date <i>1/16/25</i> Time <i>13:30</i>														VOA Vial Amber Glass Plastic Bottle Preservative Volume	 590-29042 Chain of Custody
Relinquished by	Received by	SOLID										Evidence samples were tampered with? YES NO				
Sign Print Firm Date Time	Sign Print Firm Date														VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by	Received by	PRESERVATION KEY														
Sign Print Firm Date Time	Sign Print Firm Date	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol											
		B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)											

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
 Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



Haley & Aldrich, Inc.
505 W Riverside Ave.
STE 450,
Spokane, WA 99201-0513

Phone (509) 960-7447
Fax (509) 960-7447

Page 2 of 4

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture Content											
LTA-002-N-S006-01152025	1/15/2025	9:35	Soil													X	3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
LTA-002-N-S010-01152025	1/15/2025	9:40	Soil													X	3	- TOC Total Organic Carbon
LTA-003-N-S000-01152025	1/15/2025	10:00	Soil													X	3	
LTA-003-N-S001-01152025	1/15/2025	10:05	Soil	X	X	X											3	
LTA-003-N-S003-01152025	1/15/2025	10:10	Soil	X	X	X											3	
LTA-003-N-S006-01152025	1/15/2025	10:15	Soil												X		3	
LTA-003-N-S010-01152025	1/15/2025	10:20	Soil												X		3	
LTA-003-N-S015-01152025	1/15/2025	10:25	Soil												X		3	
LTA-003-N-S017-01152025	1/15/2025	10:30	Soil												X		3	
LTA-003-FD-S001-01152025	1/15/2025	10:30	Soil	X	X	X											3	3,3,3-TCM (KCO) 5,4,5,8-TCM (KCO)

Sampled and Relinquished by		Received by		LIQUID											Sampling Comments			
Sign <u>[Signature]</u> Print <u>Luke Aden</u> Firm <u>H&A</u> Date <u>1/16/25</u> Time <u>13:37</u>	Sign <u>[Signature]</u> Print <u>Maackly Mon</u> Firm <u>ETS 2896</u> Date <u>1/16/25 1330</u>																VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by		Received by		SOLID											Evidence samples were tampered with? YES NO			
Sign Print Firm Date Time	Sign Print Firm Date																VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by		Received by		PRESERVATION KEY											If YES, please explain in section below.			
Sign Print Firm Date Time	Sign Print Firm Date	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol											B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)					

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 3 of 4

H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/25
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	pH	EPA SW-846	9045D	Moisture	Content								
JTA-001-N-S000-01152025	1/15/2025	15:00	Soil													X	3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-001-N-S001-01152025	1/15/2025	15:05	Soil	X	X	X											3	- TOC: Total Organic Carbon
JTA-001-N-S003-01152025	1/15/2025	15:10	Soil	X	X	X											3	
JTA-001-N-S006-01152025	1/15/2025	15:15	Soil												X	3		
JTA-001-N-S010-01152025	1/15/2025	15:20	Soil												X	3		
JTA-001-N-S015-01152025	1/15/2025	15:25	Soil												X	3		
JTA-001-N-S020-01152025	1/15/2025	15:30	Soil												X	3		
JTA-001-N-S023-01152025	1/15/2025	15:35	Soil												X	3		
JTA-001-PD-S006-01152025	1/15/2025	15:45	Soil												X	3	3.7 + 5 8 con (POOL)	
JTA-002-N-S000-01152025	1/15/2025	15:55	Soil												X	3		

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign <u>LS</u> Print <u>Luke Pebrn</u> Firm <u>H&A</u> Date <u>1/16/25</u> Time <u>3:30</u>	Sign <u>Mackey</u> Print <u>Mackey</u> Firm <u>EBLSP0</u> Date <u>1/16/25</u> Time <u>1330</u>	<input type="checkbox"/> VOA Vial <input type="checkbox"/> Amber Glass <input type="checkbox"/> Plastic Bottle <input type="checkbox"/> Preservative <input type="checkbox"/> Volume	
Relinquished by	Received by	SOLID	
Sign Print Firm Date Time	Sign Print Firm Date Time	<input type="checkbox"/> VOA Vial <input type="checkbox"/> Amber Glass <input type="checkbox"/> Clear Glass <input type="checkbox"/> Preservative <input type="checkbox"/> Volume	
Relinquished by	Received by		Evidence samples were tampered with? YES NO
Sign Print Firm Date Time	Sign Print Firm Date Time		If YES, please explain in section below.
		PRESERVATION KEY	
		A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, Initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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H&A FILE NO. 0209800-002 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/16/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content										
JTA-002-N-S001-01152025	1/15/2025	16:00	Soil	X	X	X										3	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon 3.7 + B.8 can 1 Pool
JTA-002-N-S003-01152025	1/15/2025	16:05	Soil	X	X	X										3	
JTA-002-FD-S003-01152025	1/15/2025	16:35	Soil	X	X	X										3	
JTA-002-N-S006-01152025	1/15/2025	16:10	Soil													3	
JTA-002-N-S010-01152025	1/15/2025	16:15	Soil													3	
JTA-002-N-S015-01152025	1/15/2025	16:20	Soil													3	
JTA-002-N-S020-01152025	1/15/2025	16:25	Soil													3	
JTA-002-N-S025-01152025	1/15/2025	16:28	Soil													3	
JTA-002-N-S030-01152025	1/15/2025	16:30	Soil													3	

Sampled and Relinquished by		Received by		LIQUID										Sampling Comments				
Sign <u>[Signature]</u> Print <u>Luke Peden</u> Firm <u>H&A</u> Date <u>1/16/25</u> Time <u>13:30</u>	Sign <u>[Signature]</u> Print <u>[Signature]</u> Firm <u>[Signature]</u> Date <u>1/16/25</u> Time <u>13:30</u>																VOA Vial Amber Glass Plastic Bottle Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below
Relinquished by		Received by		SOLID														
Sign Print Firm Date Time	Sign Print Firm Date																VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by		Received by		PRESERVATION KEY														
Sign Print Firm Date Time	Sign Print Firm Date	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol																
		B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)																

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.


_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture Content								HOLD			
JTA-002-N-S040-01162025	1/16/2025	8:30	Soil													X	3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-002-N-S042-01162025	1/16/2025	8:35	Soil													X	3	- TOC Total Organic Carbon
JTA-003-N-S000-01162025	1/16/2025	9:30	Soil														3	
JTA-003-N-S001-01162025	1/16/2025	9:35	Soil	X	X	X											3	
JTA-003-N-S003-01162025	1/16/2025	9:40	Soil	X	X	X											3	
JTA-003-N-S006-01162025	1/16/2025	9:45	Soil												X		3	
JTA-003-N-S010-01162025	1/16/2025	9:50	Soil												X		3	
JTA-003-N-S015-01162025	1/16/2025	9:55	Soil												X		3	
JTA-003-N-S020-01162025	1/16/2025	10:00	Soil												X		3	
JTA-003-N-S030-01162025	1/16/2025	10:05	Soil												X		3	29 cor 1Koolp

Sampled and Relinquished by		Received by		LIQUID												Sampling Comments	
Sign	<i>[Signature]</i>	Sign	<i>[Signature]</i>													VOA Vial	 590-29043 Chain of Custody
Print	Bonne Govern	Print	Maclay Morris													Amber Glass	
Firm	H&A	Firm	H&A													Plastic Bottle	
Date	1/17/25 Time 1148	Date	1/17/25 1148													Preservative	
Relinquished by		Received by		SOLID												Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Sign		Sign														VOA Vial	
Print		Print														Amber Glass	
Firm		Firm														Clear Glass	
Date		Date														Preservative	PRESERVATION KEY
Date		Date														Volume	
				A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)													

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 2 of

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content											HOLD
JTA-004-N-S000-01162025	1/16/2025	10:40	Soil													X	3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-004-N-S001-01162025	1/16/2025	10:45	Soil	X	X	X											3	- TOC Total Organic Carbon
JTA-004-N-S003-01162025	1/16/2025	10:50	Soil	X	X	X										3		
JTA-004-FD-S003-01162025	1/16/2025	10:55	Soil	X	X	X										3		
JTA-004-N-S006-01162025	1/16/2025	11:00	Soil											X		3		
JTA-004-N-S010-01162025	1/16/2025	11:05	Soil											X		3		
JTA-004-N-S015-01162025	1/16/2025	11:10	Soil											X		3		
JTA-004-N-S020-01162025	1/16/2025	11:15	Soil											X		3		
JTA-004-N-S030-01162025	1/16/2025	11:20	Soil											X		3		
JTA-005-N-S000-01162025	1/16/2025	13:25	Soil											X		3	2.7 con 1R200L	

Sampled and Relinquished by _____ Received by _____ LIQUID Sampling Comments _____
 Sign [Signature] Sign [Signature]
 Print Bonner Gevan Print Wicky Morris
 Firm H&A Firm ETS
 Date 1/17/25 Time 1148 Date 1/17/25 Time 1148

Relinquished by _____ Received by _____ SOLID _____
 Sign _____ Sign _____
 Print _____ Print _____
 Firm _____ Firm _____
 Date _____ Time _____ Date _____ Time _____

Relinquished by _____ Received by _____ PRESERVATION KEY _____
 Sign _____ Sign _____
 Print _____ Print _____
 Firm _____ Firm _____
 Date _____ Time _____ Date _____ Time _____

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)
 If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re
 Required Reporting Limits and Data Quality Objectives
 RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content											HOLD
JTA-005-N-S001-01162025	1/16/2025	13:30	Soil	X	X	X											3	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
JTA-005-N-S003-01162025	1/16/2025	13:35	Soil	X	X	X											3	- TOC: Total Organic Carbon
JTA-005-FD-S003-01162025	1/16/2025	14:05	Soil	X	X	X											3	
JTA-005-N-S006-01162025	1/16/2025	13:40	Soil											X			3	
JTA-005-N-S010-01162025	1/16/2025	13:45	Soil											X			3	
JTA-005-N-S015-01162025	1/16/2025	13:50	Soil											X			3	
JTA-005-N-S017-01162025	1/16/2025	14:25	Soil											X			3	
JTA-005-N-S025-01162025	1/16/2025	14:30	Soil											X			3	
JTA-006-N-S000-01162025	1/16/2025	14:55	Soil											X			3	
JTA-006-N-S001-01162025	1/16/2025	15:00	Soil	X	X	X											3	29 corr 1/20/25

Sampled and Relinquished by	Received by	LIQUID		Sampling Comments
Sign: <i>[Signature]</i> Print: <i>Bonnie Govorn</i> Firm: <i>H&A</i> Date: <i>1/17/25</i> Time: <i>1148</i>	Sign: <i>[Signature]</i> Print: <i>Mackey Morris</i> Firm: <i>EFLSPO</i> Date: <i>1/17/25</i> Time: <i>1146</i>		VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____	Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____	SOLID	VOA Vial Amber Glass Clear Glass Preservative Volume	
Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____	Sign: _____ Print: _____ Firm: _____ Date: _____ Time: _____	PRESERVATION KEY		Evidence samples were tampered with? YES NO If YES, please explain in section below.
		A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)		

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods) If Presumptive Certainty Data Package is needed, initial all sections: _____ The required minimum field QC samples, as designated in BWSC CAM VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re	Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2
---	---



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Page 4 of

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				TOC	EPA 9060A	PB EPA SW-846 9045D	Moisture Content											HOLD
JTA-006-FD-S001-01162025	1/16/2025	15:30	Soil	X	X	X											3	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC Total Organic Carbon 2.5, 2.9 con 1100L
JTA-006-N-S003-01162025	1/16/2025	15:05	Soil	X	X	X											3	
JTA-006-N-S006-01162025	1/16/2025	15:10	Soil										X				3	
JTA-006-N-S010-01162025	1/16/2025	15:15	Soil										X				3	
JTA-006-N-S013-01162025	1/16/2025	15:20	Soil										X				3	
JTA-006-N-S021-01162025	1/16/2025	15:25	Soil										X				3	
JTA-006-N-S028-01162025	1/16/2025	15:30	Soil										X				3	

Sampled and Relinquished by	Received by	LIQUID											Sampling Comments					
Sign <i>[Signature]</i> Print <u>Bonnie Govom</u> Firm <u>H&A</u> Date <u>1/17/25</u> Time <u>1148</u>	Sign <i>[Signature]</i> Print <u>Mackay Mons</u> Firm <u>EET SPO</u> Date <u>1/17/25</u> Time <u>1148</u>																	VOA Vial Amber Glass Plasti Bottl. Preservative Volume
Relinquished by	Received by	SOLID											Evidence samples were tampered with? YES NO If YES, please explain in section below.					
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____																	VOA Vial Amber Glass Clear Glass Preservative Volume
Relinquished by	Received by	PRESERVATION KEY																
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol													
		B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)													

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/20/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content										
JTA-008-N-S006-01172025	1/17/2025	1110	Soil													2	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC Total Organic Carbon ST + 0.8 cor 11/20/25
JTA-008-N-S010-01172025	1/17/2025	1115	Soil													2	
JTA-008-N-S015-01172025	1/17/2025	1120	Soil													2	
JTA-008-N-S017-01172025	1/17/2025	1130	Soil													2	
JTA-009-N-S000-01172025	1/17/2025	1140	Soil													2	
JTA-009-N-S001-01172025	1/17/2025	1145	Soil	X	X	X										2	
JTA-009-N-S003-01172025	1/17/2025	1150	Soil	X	X	X										2	
JTA-009-FD-S003-01172025	1/17/2025	1220	Soil	X	X	X										2	
JTA-009-N-S006-01172025	1/17/2025	1155	Soil													2	
JTA-009-N-S010-01172025	1/17/2025	1200	Soil													2	

Sampled and Relinquished by Sign <u>Breeyn Greer</u> Print <u>Breeyn Greer</u> Firm <u>HA</u> Date <u>1/20/25</u> Time <u>0840</u>	Received by Sign <u>[Signature]</u> Print <u>Madison Morris</u> Firm <u>HA</u> Date <u>1/20/25</u> Time <u>840</u>	LIQUID VOA Vial Amber Glass Plastic Bottle Preservative Volume	Sampling Comments
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date Time	SOLID VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date Time	PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 3 of 4

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	1/20/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave Spokane Valley WA 99206	TURNAROUND TIME	standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC EPA 9060A	PH EPA SW-846 9045D	Moisture Content											
JTA-009-N-S015-01172025	1/17/2025	1205	Soil													2	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC Total Organic Carbon <i>37 + 0.8 cor 1/20/25</i>
JTA-009-N-S020-01172025	1/17/2025	1210	Soil													2	
JTA-009-N-S030-01172025	1/17/2025	1215	Soil													2	
RT-003-N-S000-01172025	1/17/2025	1405	Soil													2	
RT-003-N-S001-01172025	1/17/2025	1410	Soil	X	X	X										2	
RT-003-N-S003-01172025	1/17/2025	1415	Soil	X	X	X										2	
RT-003-FD-S003-01172025	1/17/2025	1420	Soil	X	X	X										2	
RT-003-N-S006-01172025	1/17/2025	1425	Soil													2	
RT-003-N-S010-01172025	1/17/2025	1430	Soil													2	
RT-003-N-S015-01172025	1/17/2025	1435	Soil													2	

Sampled and Relinquished by	Received by	LIQUID											Sampling Comments				
Sign <i>Breeyn Greer</i>	Sign <i>[Signature]</i>																
Print Breeyn Greer	Print <i>MacLay Mars</i>																
Firm HA	Firm <i>STEPS</i>																
Date 1/20/25 Time 0840	Date 1/20/25 840																
Relinquished by	Received by	SOLID											Volume				
Sign	Sign																Evidence samples were tampered with? YES NO If YES, please explain in section below.
Print	Print																
Firm	Firm																
Date Time	Date																
Relinquished by	Received by	PRESERVATION KEY															
Sign	Sign	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol												
Print	Print	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)												
Firm	Firm																
Date Time	Date																

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)	
If Presumptive Certainty Data Package is needed, Initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty. Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.	Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	11/20/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave Spokane Valley WA 99206	TURNAROUND TIME	Standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content										
RT-003-N-S020-01172025	1/17/2025	1440	Soil													2	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
RT-003-N-S030-01172025	1/17/2025	1445	Soil													2	- TOC: Total Organic Carbon

37 or 0.8 corr 1/20/25


Sampled and Relinquished by	Received by	LIQUID											Sampling Comments					
Sign <i>Breeyn Greer</i>	Sign <i>Mackey Morris</i>																	
Print <i>Breeyn Greer</i>	Print <i>Mackey Morris</i>																	
Firm <i>HA</i>	Firm <i>HA</i>																	
Date <i>1/20/25</i> Time <i>0940</i>	Date <i>1/20/25</i> Time <i>840</i>																	
Relinquished by	Received by	SOLID											Evidence samples were tampered with? YES NO If YES, please explain in section below.					
Sign	Sign																	
Print	Print																	
Firm	Firm																	
Date Time	Date																	
Relinquished by	Received by	PRESERVATION KEY																
Sign	Sign	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol													
Print	Print	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)													
Firm	Firm																	
Date Time	Date																	

If Presumptive Certainty Data Package is needed, Initial all sections:
The required minimum field QC samples, as designated in BWS CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required

Required Reporting Limits and Data Quality Objectives		
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content											HOLD
RTA-002-N-S000-01202025	1/20/2025	8:25	Soil												X	2	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC Total Organic Carbon 24°C 2.8°C 32006	
RTA-002-N-S001-01202025		8:37			X	X	X											
RTA-002-N-S003-01202025		8:49			X	X	X											
RTA-002-N-S006-01202025		9:01												X				
RTA-002-N-S010-01202025		9:08												X				
RTA-002-N-S015-01202025		9:23												X				
RTA-001-N-S000-01202025		10:53												X				
RTA-001-N-S001-01202025		11:05			X	X	X											
RTA-001-N-S003-01202025		11:10		X	X	X												
RTA-001-N-S006-01202025		11:25												X				

Sampled and Relinquished by	Received by	LIQUID											VOA Vial	Sampling Comments		
Sign	Sign															Amber Glass
Print	Print															Plastic Bottle
Firm	Firm															Preservative
Date	Date														Volume	
Relinquished by	Received by	SOLID											VOA Vial	 590-29066 Chain of Custody Evidence samples were tampered with? YES NO If YES, please explain in section below.		
Sign <i>Lindsay Chutas</i>	Sign <i>OSB</i>															Amber Glass
Print <i>Lindsay Chutas</i>	Print <i>Chutas</i>															Clear Glass
Firm <i>Haley & Aldrich</i>	Firm <i>Terry Powell</i>															Preservative
Date <i>1/21/25</i>	Date <i>1/20/25</i>														Volume	
Relinquished by	Received by	PRESERVATION KEY														
Sign	Sign	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol											
Print	Print	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)											
Firm	Firm															
Date	Date															

<p>Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)</p> <p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are</p>	<p>Required Reporting Limits and Data Quality Objectives</p> <table> <tr> <td><input type="checkbox"/> RC-S1</td> <td><input type="checkbox"/> S1</td> <td><input type="checkbox"/> GW1</td> </tr> <tr> <td><input type="checkbox"/> RC-S2</td> <td><input type="checkbox"/> S2</td> <td><input type="checkbox"/> GW2</td> </tr> <tr> <td><input type="checkbox"/> RC-GW1</td> <td><input type="checkbox"/> S3</td> <td><input type="checkbox"/> GW3</td> </tr> <tr> <td><input type="checkbox"/> RC-GW2</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1	<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2	<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3	<input type="checkbox"/> RC-GW2		
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1											
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2											
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3											
<input type="checkbox"/> RC-GW2													



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Page 2 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME
H&A CONTACT Breeyn Greer CONTACT Rande Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)			
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content												
RTA-001-N-S010-01202025	1/20/2025	11.31	Soil														X	2	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
RTA-001-FD-S010-01202025		11:40															X		- TOC Total Organic Carbon
RTA-001-N-S012-01202025		12.00															X		
PDW-002-N-S000-01202025		14.10															X		
PDW-002-N-S001-01202025		14 15				X	X	X											
PDW-002-N-S003-01202025		14:25				X	X	X											
PDW-002-N-S006-01202025		14:30															X		
PDW-002-N-S010-01202025		14:40															X		
PDW-002-N-S015-01202025		14:45															X		
PDW-002-N-S020-01202025		14 50															X		2.4c 2.8c 12006

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign Print Firm Date Time	Sign Print Firm Date		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by	Received by	SOLID	Evidence samples were tampered with? YES NO If YES, please explain in section below
Sign Print Firm Date Time	Sign Print Firm Date		
Relinquished by	Received by	PRESERVATION KEY	
Sign Print Firm Date Time	Sign Print Firm Date	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

If Presumptive Certainty Data Package is needed, initial all sections	Required Reporting Limits and Data Quality Objectives
The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.	<input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1
This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.	<input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2
If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are	<input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3
	<input type="checkbox"/> RC-GW2



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Page 3 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content										HOLD
PDW-002-N-S025-01202025	1/20/2025	14:55	Soil												X	2	PFAS Analysis to be conducted by Eurofins Sacramento
PDW-002-N-S029-01202025		15:00													X		Laboratory to use applicable DEP CAM methods, unless otherwise directed.
PDW-001-N-S000-01202025		16:20													X		- TOC: Total Organic Carbon
PDW-001-N-S001-01202025		16:25			X	X	X										
PDW-001-N-S003-01202025		16:35			X	X	X										
PDW-001-FD-S003-01202025		16:40			X	X	X							X	LL	run sample	
PDW-001-N-S006-01202025		16:45												X			
PDW-001-N-S010-01202025		16:50												X			
PDW-001-N-S015-01202025		16:55												X			
PDW-001-N-S020-01202025		17:00												X		24c 2.8c I11006	

Sampled and Relinquished by		Received by	LIQUID										Sampling Comments			
Sign		Sign													VOA Vial	
Print		Print													Amber Glass	
Firm		Firm													Plastic Bottle	
Date	Time	Date													Preservative	
															Volume	
Relinquished by		Received by	SOLID										Evidence samples were tampered with? YES NO			
Sign	<i>Lindsay Chutas</i>	Sign													VOA Vial	
Print	Lindsay Chutas	Print													Amber Glass	
Firm	Haley & Aldrich	Firm													Clear Glass	
Date	1/21/25 Time 11:00	Date													Preservative	
															Volume	
Relinquished by		Received by	PRESERVATION KEY										If YES, please explain in section below.			
Sign		Sign														
Print		Print														
Firm		Firm														
Date	Time	Date														
			A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol										
			B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)										

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 4 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content											HOLD
PDW-001-N-S025-01202025	1/20/2025	17:05	Soil													X	2	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
PDW-001-N-S030-01202025		17:10														X		- TOC: Total Organic Carbon
PDW-001-N-S034-01202025		17:15														X		

24°C 2.8°C F ROD

Sampled and Relinquished by		Received by		LIQUID												Sampling Comments		
Sign <i>Randy Chutas</i>	Sign <i>OSK</i>																VOA Vial	
Print <i>Lindsay Chutas</i>	Print <i>[Signature]</i>																Amber Glass	
Firm <i>Haley & Aldrich</i>	Firm <i>[Signature]</i>																Plastic Bottle	
Date <i>1/21/25</i> Time <i>11:00</i>	Date <i>1/22/25</i> Time <i>11:05</i>																Preservative	
																	Volume	
Relinquished by		Received by		SOLID												Evidence samples were tampered with? YES NO		
Sign	Sign																VOA Vial	
Print	Print																Amber Glass	
Firm	Firm																Clear Glass	
Date	Date																Preservative	
																	Volume	
Relinquished by		Received by		PRESERVATION KEY												If YES, please explain in section below		
Sign	Sign																	
Print	Print																	
Firm	Firm																	
Date	Date																	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 1 of 5

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content										
FIT-002-N-S000-01212025	1/21/2025	0725	Soil													1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon 40.44 over 1000
FIT-002-N-S001-01212025	1/21/2025	0730	Soil	X	X	X										1	
FIT-002-N-S003-01212025	1/21/2025	0735	Soil	X	X	X										1	
FIT-002-N-S006-01212025	1/21/2025	0740	Soil													1	
FIT-002-N-S010-01212025	1/21/2025	0745	Soil													1	
FIT-002-N-S015-01212025	1/21/2025	0750	Soil													1	
FIT-001-N-S000-01212025	1/21/2025	0840	Soil													1	
FIT-001-N-S001-01212025	1/21/2025	0845	Soil	X	X	X										1	
FIT-001-N-S003-01212025	1/21/2025	4850	Soil	X	X	X										1	
FIT-001-FD-S003-01212025	1/21/2025	0920	Soil	X	X	X										1	

Sampled and Relinquished by		Received by		LIQUID													
Sign		Sign															
Print	Spokane County	Print	Maacky Mon														
Firm	HA	Firm	EST														
Date	01/22/25	Date	1/22/25														
Time	1200	Time	1200														
Relinquished by		Received by		SOLID													
Sign		Sign															
Print		Print															
Firm		Firm															
Date		Date															
Time		Time															
Relinquished by		Received by		PRESERVATION KEY													
Sign		Sign															
Print		Print															
Firm		Firm															
Date		Date															
Time		Time															
				A	B	C	D	E	F	G	H						
				Sample chilled	Sample filtered	NaOH	HNO ₃	H ₂ SO ₄	HCL	Methanol	Water/NaHSO ₄ (circle)						

Sampling Comments	
 590-29098 Chain of Custody	
Evidence samples were tampered with? YES NO	
If YES, please explain in section below.	

<p>Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)</p> <p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.</p> <p>_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re</p>	<p>Required Reporting Limits and Data Quality Objectives</p> <table border="0"> <tr> <td><input type="checkbox"/> RC-S1</td> <td><input type="checkbox"/> S1</td> <td><input type="checkbox"/> GW1</td> </tr> <tr> <td><input type="checkbox"/> RC-S2</td> <td><input type="checkbox"/> S2</td> <td><input type="checkbox"/> GW2</td> </tr> <tr> <td><input type="checkbox"/> RC-GW1</td> <td><input type="checkbox"/> S3</td> <td><input type="checkbox"/> GW3</td> </tr> <tr> <td><input type="checkbox"/> RC-GW2</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1	<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2	<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3	<input type="checkbox"/> RC-GW2		
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1											
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2											
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3											
<input type="checkbox"/> RC-GW2													



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Page 2 of 5

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture	Content									
FIT-001-N-S005-01212025	1/21/2025	0855	Soil													1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FIT-003-N-S000-01212025	1/21/2025	0935	Soil													1	- TOC Total Organic Carbon <i>H.O.H. cor 1000</i>
FIT-003-N-S001-01212025	1/21/2025	0940	Soil	X	X	X									1		
FIT-003-N-S003-01212025	1/21/2025	0945	Soil	X	X	X									1		
FIT-003-N-S006-01212025	1/21/2025	0950	Soil												1		
FIT-003-N-S010-01212025	1/21/2025	0955	Soil												1		
FIT-003-N-S011-01212025	1/21/2025	1000	Soil												1		
FIT-007-N-S000-01212025	1/21/2025	1010	Soil												1		
FIT-008-N-S000-01212025	1/21/2025	1030	Soil												1		
FIT-006-N-S000-01212025	1/21/2025	1111	Soil												1		

Sampled and Relinquished by		Received by		LIQUID											Sampling Comments		
Sign <i>[Signature]</i>	Sign <i>[Signature]</i>																VOA Vial Amber Glass Plastic Bottle Preservative Volume
Print <i>Jack Castillo Laska</i>	Print <i>Mackley Morris</i>																
Firm <i>HA</i>	Firm <i>ETSPO</i>																
Date <i>01/22/25</i> Time <i>1700</i>	Date <i>1/23/25</i> Time <i>1200</i>																
Relinquished by		Received by		SOLID											Evidence samples were tampered with? YES NO		
Sign	Sign																If YES, please explain in section below.
Print	Print																
Firm	Firm																
Date	Date																
Relinquished by		Received by		PRESERVATION KEY													
Sign	Sign			A Sample chilled		C NaOH		E H ₂ SO ₄		G Methanol							
Print	Print			B Sample filtered		D HNO ₃		F HCL		H Water/NaHSO ₄ (circle)							
Firm	Firm																
Date	Date																

<p>Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)</p> <p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.</p> <p>_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are re</p>		<p>Required Reporting Limits and Data Quality Objectives</p> <p><input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1</p> <p><input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2</p> <p><input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3</p> <p><input type="checkbox"/> RC-GW2</p>	
--	--	--	--



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Page 3 of 5

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture	Content									
FIT-005-N-S000-01212025	1/21/2025	1106	Soil													1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FIT-004-N-S000-01212024	1/21/2025	1100	Soil													1	- TOC: Total Organic Carbon
FIT-004-N-S001-01212024	1/21/2025	1105	Soil	x	x	x									1		
FIT-004-N-S003-01212024	1/21/2025	1110	Soil	x	x	x									1		
FIT-004-FD-S003-01212024	1/21/2025	1140	Soil	x	x	x									1		
FIT-004-N-S006-01212024	1/21/2025	1115	Soil												1		
FIT-004-N-S010-01212024	1/21/2025	1120	Soil												1		
FIT-004-N-S015-01212024	1/21/2025	1125	Soil												1		
FIT-004-N-S016-01212024	1/21/2025	1130	Soil												1		
SRA-003-N-S000-01212025	1/21/2025	1300	Soil												1	4.0, 4.4 corr 10000	

Sampled and Relinquished by		Received by		LIQUID											Sampling Comments		
Sign <i>[Signature]</i>	Print <i>[Signature]</i>	Sign <i>[Signature]</i>	Print <i>[Signature]</i>														Evidence samples were tampered with? YES NO If YES, please explain in section below.
Firm <i>[Signature]</i>	Date <i>[Signature]</i> Time <i>[Signature]</i>	Firm <i>[Signature]</i>	Date <i>[Signature]</i> Time <i>[Signature]</i>														
Relinquished by	Received by																
Sign	Print	Sign	Print														
Firm	Date	Firm	Date														
Relinquished by	Received by																
Sign	Print	Sign	Print														
Firm	Date	Firm	Date														
Relinquished by	Received by																
Sign	Print	Sign	Print														
Firm	Date	Firm	Date														
Relinquished by	Received by																

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
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Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture	Content								
SRA-004B-N-S000-01212025	1/21/2025	1450	Soil												1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon <i>H.O., H.H. corr 1/20/25</i>
SRA-007A-N-S006-01212025	1/21/2025	1505	Soil												1	
SRA-007B-N-S000-01212025	1/21/2025	1515	Soil												1	
SRA-006-N-S000-01212025	1/21/2025	1540	Soil												1	
SRA-006-N-S001-01212025	1/21/2025	1545	Soil	X	X	X									1	
SRA-006-N-S006-01212025	1/21/2025	1550	Soil												1	
															1	

Sampled and Relinquished by Sign: <i>[Signature]</i> Print: <i>Cezek Castallos</i> Firm: <i>HA</i> Date: <i>1/22/25</i> Time: <i>1200</i>		Received by Sign: <i>[Signature]</i> Print: <i>Haley Morris</i> Firm: <i>HA</i> Date: <i>1/22/25</i> Time: <i>1200</i>		LIQUID										VOA Vial Amber Glass Plastic Bottle Preservative Volume	Sampling Comments
Relinquished by Sign: Print: Firm: Date: Time:		Received by Sign: Print: Firm: Date: Time:		SOLID										VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Relinquished by Sign: Print: Firm: Date: Time:		Received by Sign: Print: Firm: Date: Time:		PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)											

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
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 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
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Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content										
SRA-005-N-S000-01222025	1/22/2025	7:45	Soil												X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
SRA-005-N-S001-01222025		7:50			X	X	X										- TOC Total Organic Carbon
SRA-005-N-S003-01222025		7:55			X	X	X										
SRA-005-N-S006-01222025		8:00													X		
SRA-005-N-S010-01222025		8:05													X		
SRA-005-N-S015-01222025		8:10													X		
SRA-005-N-S017-01222025		8:15													X		
SRA-005-FD-S017-01222025		8:20													X		
SRA-009-N-S000-01222025		8:45			X	X	X										
SRA-010-N-S000-01222025		9:10													X		



Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign Print Firm Date Time	Sign Print Firm Date		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by	Received by	SOLID	
Sign <i>Randy Chutas</i> Print <i>Lindsay Chutas</i> Firm <i>Haley & Aldrich</i> Date <i>1/23/25</i> Time <i>14:35</i>	Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm Date <i>1/23/25</i> Time <i>14:35</i>	<i>1435 5.4 5.8 10006</i>	VOA Vial Amber Glass Clear Glass Preservative Volume
Relinquished by	Received by		Evidence samples were tampered with? YES NO If YES, please explain in section below
Sign Print Firm Date Time	Sign Print Firm Date	PRESERVATION KEY	
		A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

<p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are</p>	<p>Required Reporting Limits and Data Quality Objectives</p> <p><input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2</p>
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Page 2 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)				
				PFAS EPA 1633	TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content										HOLD		
448 55 (LVP) ↓																			
SRA-010-N-001-01222025	1/22/2025	9 15	Soil		X	X	X										1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.	
SRA-010-N-003-01222025		9:20			X	X	X												
SRA-010-FD-003-01222025		9 50			X	X	X												
SRA-010-N-006-01222025		9 25													X				
SRA-010-N-010-01222025		9:30													X				
SRA-010-N-015-01222025		9 35													X				
SRA-011-N-000-01222025		10 10													X				
SRA-011-N-001-01222025		10 15			X	X	X												
SRA-011-N-003-01222025		10 20			X	X	X												
SRA-011-N-006-01222025		10:25													X				

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by _____	Received by _____		
Sign <i>Wendy Chutas</i> Print <i>Wendy Chutas</i> Firm <i>Haley & Aldrich</i> Date <i>01/23/25</i> Time <i>09:35</i>	Sign <i>[Signature]</i> Print <i>Wendy Chutas</i> Firm <i>Haley & Aldrich</i> Date <i>1/23/25</i>	SOLID <i>1435</i> <i>5.4, 8.8</i> <i>2006</i>	VOA Vial Amber Glass Clear Glass Preservative Volume
Relinquished by _____	Received by _____		Evidence samples were tampered with? YES NO If YES, please explain in section below.
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____		
		PRESERVATION KEY	
		A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	TOC EPA 9060A	PH EPA SW-846 9045D	Moisture Content									HOLD	
Add 55 (w/p) ↓ SRA-011-N-010-01222025	1/22/2025	10 30	Soil												X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon
SRA-011-N-014-01222025		10 35													X		
SRA-008-N-000-01222025		11 15													X		
SRA-008-N-001-01222025		11 20			X	X	X										
SRA-008-FD-001-01222025		11 50			X	X	X										
SRA-008-N-003-01222025		11 25			X	X	X										
SRA-001-N-000-01222025		13 00											X				
SRA-001-N-001-01222025		13 05			X	X	X										
SRA-001-N-003-01222025		13 10			X	X	X										
SRA-001-N-006-01222025		13 15												X			

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign Print Firm Date Time	Sign Print Firm Date	VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Relinquished by	Received by	SOLID	
Sign Print Firm Date Time	Sign Print Firm Date	VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by	Received by		Evidence samples were tampered with? YES NO If YES, please explain in section below
Sign Print Firm Date Time	Sign Print Firm Date		
		PRESERVATION KEY	
		A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

<p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty</p> <p>_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are</p>	<p>Required Reporting Limits and Data Quality Objectives</p> <table border="0"> <tr> <td><input type="checkbox"/> RC-S1</td> <td><input type="checkbox"/> S1</td> <td><input type="checkbox"/> GW1</td> </tr> <tr> <td><input type="checkbox"/> RC-S2</td> <td><input type="checkbox"/> S2</td> <td><input type="checkbox"/> GW2</td> </tr> <tr> <td><input type="checkbox"/> RC-GW1</td> <td><input type="checkbox"/> S3</td> <td><input type="checkbox"/> GW3</td> </tr> <tr> <td><input type="checkbox"/> RC-GW2</td> <td></td> <td></td> </tr> </table>	<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1	<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2	<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3	<input type="checkbox"/> RC-GW2		
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1											
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2											
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3											
<input type="checkbox"/> RC-GW2													



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Page 4 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				PFAS EPA 1633	TOC EPA 9060A	PH EPA SW-846 9045D	Moisture Content										HOLD
HFH-001-N-S000-01222025	1/22/2025	14:45	Soil												X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed. - TOC: Total Organic Carbon
HFH-001-N-S001-01222025		14:50			X	X	X										
HFH-001-N-S003-01222025		14:55			X	X	X										
HFH-001-FD-S003-01222025		15:25			X	X	X										
HFH-001-N-S006-01222025		15:00												X			
SRA-002-N-S000-01222025		11:45			X	X	X										
TRP-001-N-S000-01222025		12:35			X	X	X										
TRP-002-N-S000-01222025		12:55			X	X	X										
HFH-006-N-S000-01222025		15:05			X	X	X										

Sampled and Relinquished by	Received by	LIQUID										Sampling Comments					
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____															VOA Vial Amber Glass Plastic Bottle Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Relinquished by	Received by	SOLID															
Sign <i>Lindsay Chutas</i> Print <i>Lindsay Chutas</i> Firm <i>Haley & Aldrich</i> Date <i>01/23/25</i> Time <i>14:35</i>	Sign <i>[Signature]</i> Print <i>[Signature]</i> Firm _____ Date <i>1/27/25</i>															VOA Vial Amber Glass Clear Glass Preservative Volume	
Relinquished by	Received by	PRESERVATION KEY															
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol												
		B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)												

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
 PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME _____
 H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	PH EPA SW-846	9045D	Moisture Content									
HFH-004-N-S0005-01232025	1/23/2025	1020	Soil												X	1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
HFH-004-N-S001-01232025	1/23/2025	1025	Soil	X	X	X										1	- TOC Total Organic Carbon
HFH-004-N-S003-01232025	1/23/2025	1030	Soil	X	X	X										1	
HFH-004-FD-S003-01232025	1/23/2025	1100	Soil	X	X	X										1	
HFH-004-N-S006-01232025	1/23/2025	1035	Soil											X	1		
HFH-004-N-S010-01232025	1/23/2025	1040	Soil	X	X	X									1		
HFH-004-FD-S010-01232025	1/23/2025	1110	Soil	X	X	X									1		
HFH-005-N-S0005-01232025	1/23/2025	1115	Soil											X	1		
HFH-005-N-S001-01232025	1/23/2025	1120	Soil	X	X	X									1		
HFH-005-FD-S001-01232025	1/23/2025	1150	Soil	X	X	X									1		



Sampled and Relinquished by		Received by		LIQUID										Sampling Comments			
Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>	Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>															VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>	Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>															VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.

Handwritten notes:
4.5
4.9
1/24/25

PRESERVATION KEY

A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate to meet the requirements of Presumptive Certainty

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Table with columns: Sample No., Date, Time, Type, Analysis Requested (TOC, EPA 9060A, PH EPA SW-846 9045D, Moisture Content, HOLD, Number of Containers), Comments. Includes rows for samples HFH-005-N-S003-01232025 through HFH-003-N-S012-01232025.

LIQUID and SOLID sections for sample handling. Includes 'Sampled and Relinquished by', 'Received by', 'Sign', 'Print', 'Firm', 'Date', 'Time' fields and a 'PRESERVATION KEY' table.

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods) If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) includes does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are Required Reporting Limits and Data Quality Objectives

Handwritten notes: JMW, 5042 W, GSE, W, VCO

Handwritten numbers: 1110, 4.5, 4.9, 12006



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Page 3 of 4

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE _____
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME _____
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested										HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture	Content									
HFH-002-N-S0005-01232025	1/23/2025	1310	Soil												X	1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
HFH-002-N-S001-01232025	1/23/2025	1315	Soil	X	X	X										1	- TOC: Total Organic Carbon
HFH-002-FD-S001-01232025	1/23/2025	1345	Soil	X	X	X										1	
HFH-002-N-S003-01232025	1/23/2025	1320	Soil	X	X	X										1	
HFH-002-N-S006-01232025	1/23/2025	1325	Soil											X		1	
HFH-002-N-S010-01232025	1/23/2025	1330	Soil											X		1	
HFH-002-N-S012-01232025	1/23/2025	1335	Soil											X		1	
FMB-004-N-S0005-01232025	1/23/2025	1550	Soil											X		1	
FMB-004-N-S001-01232025	1/23/2025	1555	Soil	X	X	X										1	
FMB-004-N-S003-01232025	1/23/2025	1600	Soil	X	X	X										1	

Sampled and Relinquished by		Received by		LIQUID										Sampling Comments			
Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>	Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>															VOA Vial Amber Glass Plastic Bottle Preservative Volume	
Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>	Sign <i>[Signature]</i> Print <i>[Name]</i> Firm <i>[Firm]</i> Date <i>[Date]</i> Time <i>[Time]</i>															VOA Vial Amber Glass Clear Glass Preservative Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Sign _____ Print _____ Firm _____ Date _____ Time _____	Sign _____ Print _____ Firm _____ Date _____ Time _____																

PRESERVATION KEY

A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, Initial all sections:

The required minimum field QC samples, as designated in BWSC CAM VII have been or will be collected, to meet the requirements of Presumptive Certainty Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are _____

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 4 of 4

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley WA 99206	TURNAROUND TIME	
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC	EPA 9060A	PH EPA SW-846 9045D	Moisture Content										
FMB-004-S006-01232025	1/23/2025	1605	Soil												X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FMB-004-N-S010-01232025	1/23/2025	1610	Soil	X	X	X										1	- TOC Total Organic Carbon
FMB-004-FD-S010-01232025	1/23/2025	1640	Soil	X	X	X										1	
FMB-004-FD-S003-01232025	1/23/2025	1630	Soil	X	X	X										1	
																1	
																1	
																1	
																1	

Sampled and Relinquished by		Received by		LIQUID											Sampling Comments									
Sign <i>[Signature]</i>	Print <i>[Print Name]</i>	Sign <i>[Signature]</i>	Print <i>[Print Name]</i>															VOA Vial Amber Glass Plastic Bottle Preservative Volume						
Date <i>1/23/25</i> Time <i>1700</i>		Date <i>1/23/25</i> Time <i>1700</i>																						
Relinquished by		Received by		SOLID											Evidence samples were tampered with? YES NO									
Sign <i>[Signature]</i>	Print <i>[Print Name]</i>	Sign <i>[Signature]</i>	Print <i>[Print Name]</i>															VOA Vial Amber Glass Clear Glass Preservative Volume						
Date <i>1/24/25</i> Time <i>11:10</i>		Date <i>1/24/25</i> Time <i>11:00</i>																						
Relinquished by		Received by		PRESERVATION KEY											If YES, please explain in section below.									
Sign	Print	Sign	Print	<table border="0"> <tr> <td>A Sample chilled</td> <td>C NaOH</td> <td>E H₂SO₄</td> <td>G Methanol</td> </tr> <tr> <td>B Sample filtered</td> <td>D HNO₃</td> <td>F HCL</td> <td>H Water/NaHSO₄ (circle)</td> </tr> </table>											A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)		
A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol																					
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)																					

<p>Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)</p> <p>If Presumptive Certainty Data Package is needed, initial all sections:</p> <p>The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.</p> <p>Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.</p> <p>This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.</p> <p>If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are _____</p>		<p>Required Reporting Limits and Data Quality Objectives</p> <table border="0"> <tr> <td><input type="checkbox"/> RC-S1</td> <td><input type="checkbox"/> S1</td> <td><input type="checkbox"/> GW1</td> </tr> <tr> <td><input type="checkbox"/> RC-S2</td> <td><input type="checkbox"/> S2</td> <td><input type="checkbox"/> GW2</td> </tr> <tr> <td><input type="checkbox"/> RC-GW1</td> <td><input type="checkbox"/> S3</td> <td><input type="checkbox"/> GW3</td> </tr> <tr> <td><input type="checkbox"/> RC-GW2</td> <td></td> <td></td> </tr> </table>		<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1	<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2	<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3	<input type="checkbox"/> RC-GW2		
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1													
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2													
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3													
<input type="checkbox"/> RC-GW2															

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				TOC	EPA 9060A	pH EPA SW-846 9045D	Moisture Content											HOLD
FMB-001-N-S0005-01272025	1/27/2025	0945	Soil													X	1	-- PFAS Analysis to be conducted by Eurofins Sacramento
FMB-001-N-S001-01272025	1/27/2025	0950	Soil	X	X	X											1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FMB-001-FD-S001-01272025	1/27/2025	1020	Soil	X	X	X											1	-- TOC. Total Organic Carbon
FMB-001-N-S003-01272025	1/27/2025	0955	Soil	X	X	X											1	
FMB-001-N-S006-01272025	1/27/2025	1000	Soil												X	1		
FMB-001-N-S005-01272025	1/27/2025	1005	Soil												X	1		

Sampled and Relinquished by Sign <i>[Signature]</i> Print Zack Castillo da Silva Firm Haley Aldrich Date 01/27/2025 Time 1400		Received by Sign <i>[Signature]</i> Print Luke Peltan Firm H&A Date 1/27/25 1400		LIQUID											VOA Vial Amber Glass Plastic Bottle Preservative Volume		Sampling Comments
Relinquished by Sign <i>[Signature]</i> Print Luke Peltan Firm H&A Date 1/27/25 Time 1530		Received by Sign <i>[Signature]</i> Print Araceli B. Brown Firm Eurofins Spokane Date 01/27/25 1530		SOLID											VOA Vial Amber Glass Clear Glass Preservative Volume		Evidence samples were tampered with? YES NO If YES, please explain in section below.
Relinquished by Sign Print Firm Date Time		Received by Sign Print Firm Date Time		PRESERVATION KEY													
														A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)			



590-29158 Chain of Custody

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 1 of 6

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/21/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content											HOLD
FMB-003-N-S0005-01242025	1/24/2025	0800	Soil												X	1	-- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed. -- TOC: Total Organic Carbon <i>Obs Temp 4.1°C Cont Temp 4.9°C #12006</i>
FMB-003-N-S001-01242025	1/24/2025	0805	Soil	X	X	X									1		
FMB-003-FD-S001-01242025	1/24/2025	0835	Soil	X	X	X									1		
FMB-003-N-S003-01242025	1/24/2025	0810	Soil	X	X	X									1		
FMB-003-N-S006-01242025	1/24/2025	0815	Soil										X		1		
FMB-003-N-S010-01242025	1/24/2025	0820	Soil	X	X	X									1		
FMB-003-FD-S010-01242025	1/24/2025	0850	Soil	X	X	X									1		
FMB-003-N-S015-01242025	1/24/2025	0825	Soil										X		1		
FMB-002-N-S0005-01242025	1/24/2025	0900	Soil										X		1		
FMB-002-N-S001-01242025	1/24/2025	0905	Soil	X	X	X									1		

Sampled and Relinquished by: Sign *[Signature]*, Print Zack Castillo da Silva, Firm Haley Aldrich, Date 01/24/2025 Time 1300
Received by: Sign *[Signature]*, Print *Loree Pedan*, Firm *H&A*, Date *1/21/25 1300*

LIQUID

VOA Vial
Amber Glass
Plastic Bottle
Preservative
Volume

Sampling Comments

Relinquished by: Sign *[Signature]*, Print *Loree Pedan*, Firm *H&A*, Date *1/21/25* Time *15:00*
Received by: Sign *[Signature]*, Print *Patricia P. B...*, Firm *EPA Spokane*, Date *01/21/25 1530*

SOLID

VOA Vial
Amber Glass
Clear Glass
Preservative
Volume

Evidence samples were tampered with? YES NO
If YES, please explain in section below

Sign _____ Print _____ Firm _____ Date _____ Time _____

PRESERVATION KEY

A Sample chilled C NaOH E H₂SO₄ G Methanol
B Sample filtered D HNO₃ F HCL H Water/NaHSO₄ (circle)

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2



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Page 2 of 6

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content												
FMB-002-N-S003-01242025	1/24/2025	0910	Soil	X	X	X											1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
FMB-002-N-S006-01242026	1/24/2025	0915	Soil													X	1	- TOC Total Organic Carbon
FMB-002-N-S010-01242027	1/24/2025	0920	Soil													X	1	
FMB-002-N-S013-01242028	1/24/2025	0925	Soil													X	1	
CFH-007-N-S000-01242025	1/24/2025	1100	Soil													X	1	
CFH-007-N-S001-01242025	1/24/2025	1105	Soil	X	X	X											1	
CFH-007-FD-S001-01242025	1/24/2025	1135	Soil	X	X	X											1	
CFH-007-N-S003-01242025	1/24/2025	1110	Soil	X	X	X											1	
CFH-006-N-S000-01242025	1/24/2025	1145	Soil													X	1	
CFH-006-N-S001-01242025	1/24/2025	1150	Soil	X	X	X											1	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign Print Zack Castillo da Silva Firm Haley Aldrich Date 01/24/2025 Time 1400	Sign Print Luke Pedraza Firm H&A Date 1/24/25 1800		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by Sign Print Luke Pedraza Firm H&A Date 1/24/25 Time 15:20	Received by Sign Print Araceli N. Pineda Firm CETA Spokane Date 1/27/25 15:30		VOA Vial Amber Glass Clear Glass Preservative Volume
Relinquished by Sign Print Firm Date Time	Received by Sign Print Firm Date		Evidence samples were tampered with? YES NO If YES, please explain in section below.
PRESERVATION KEY			
A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)			

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
 Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



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Page 3 of 6

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	1/27/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley, WA 99206	TURNAROUND TIME	Standard
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested												HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
				TOC EPA 9060A	pH EPA SW-846 9045D	Moisture Content												
CFH-005-N-S000-01242025	1/24/2025	1200	Soil													X	1	- PFAS Analysis to be conducted by Eurofins Sacramento Laboratory to use applicable DEP CAM methods, unless otherwise directed.
CFH-005-N-S001-01242025	1/24/2025	1205	Soil	X	X	X											1	- TOC Total Organic Carbon
CFH-005-N-S003-01242025	1/24/2025	1210	Soil	X	X	X											1	
CFH-005-FD-S003-01242025	1/24/2025	1240	Soil	X	X	X											1	
CFH-005-N-S006-01242025	1/24/2025	1215	Soil												X		1	
CFH-004-N-S000-01242025	1/24/2025	1300	Soil												X		1	
CFH-004-N-S001-01242025	1/24/2025	1305	Soil	X	X	X											1	
CFH-004-N-S003-01242025	1/24/2025	1310	Soil	X	X	X											1	
CFH-004-N-S006-01242025	1/24/2025	1315	Soil												X		1	
CFH-004-N-S010-01242025	1/24/2025	1320	Soil	X	X	X											1	

Sampled and Relinquished by	Received by	LIQUID	Sampling Comments
Sign: <i>[Signature]</i> Print: Zack Castillo da Silva Firm: Haley Aldrich Date: 01/24/2025 Time: 1800	Sign: <i>[Signature]</i> Print: Luke Peden Firm: H&A Date: 1/24/25 1800		VOA Vial Amber Glass Plastic Bottle Preservative Volume
Relinquished by Sign: <i>[Signature]</i> Print: Luke Peden Firm: H&A Date: 1/27/25 Time: 15:20	Received by Sign: <i>[Signature]</i> Print: Aparna H. Bhanu Firm: EPA Spokane Date: 01/27/25 15:20		Evidence samples were tampered with? YES NO If YES, please explain in section below.
Relinquished by Sign: Print: Firm: Date: Time:	Received by Sign: Print: Firm: Date: Time:		

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Comments (special instructions, precautions, additional method numbers, etc.)		
				TOC EPA 9060A	pH EPA SW	846 9045D	Moisture Content										HOLD
CFH-004-FD-S010-01242025	1/24/2025	1350	Soil	X	X	X										1	Laboratory to use applicable DEP CAM methods, unless otherwise directed
CFH-004-N-S015-01242025	1/24/2025	1325	Soil											X		1	- TOC Total Organic Carbon
CFH-003-N-S000-01242025	1/24/2025	1415	Soil											X		1	
CFH-003-N-S001-01242025	1/24/2025	1420	Soil	X	X	X										1	
CFH-003-N-S003-01242025	1/24/2025	1425	Soil	X	X	X										1	
CFH-003-N-S006-01242025	1/24/2025	1430	Soil											X		1	
CFH-003-N-S009-01242025	1/24/2025	1435	Soil	X	X	X										1	
CFH-003-FD-S009-01242025	1/24/2025	1505	Soil	X	X	X										1	
CFH-002-N-S000-01242025	1/24/2025	1500	Soil											X		1	
CFH-002-N-S001-01242025	1/24/2025	1505	Soil	X	X	X										1	

Sampled and Relinquished by	Received by	LIQUID	VOA Vial	Amber Glass	Plastic Bottle	Preservative	Volume	Sampling Comments	
Sign <u>[Signature]</u> Print Zack Castillo da Silva Firm Haley Aldrich Date 01/24/2025 Time 14:00	Sign <u>[Signature]</u> Print Luke Peden Firm H&A Date 1/24/25 19:00								
Relinquished by	Received by	SOLID	VOA Vial	Amber Glass	Clear Glass	Preservative	Volume	Evidence samples were tampered with? YES NO If YES, please explain in section below.	
Sign <u>[Signature]</u> Print Luke Peden Firm H&A Date 1/29/25 Time 15:20	Sign <u>[Signature]</u> Print <u>[Signature]</u> Firm <u>[Signature]</u> Date 01/27/25 15:30								
Relinquished by	Received by	PRESERVATION KEY							
Sign	Sign	A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol				
Print	Print	B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)				
Firm	Firm								
Date	Date								

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

H&A FILE NO.	0209800-001	LABORATORY	Eurofins Environmental Testing	DELIVERY DATE	1/27/25
PROJECT NAME	Geiger Field PFAS Support	ADDRESS	11922 E 1st Ave, Spokane Valley WA 99206	TURNAROUND TIME	Standards
H&A CONTACT	Breeyn Greer	CONTACT	Randee Arrington	PROJECT MANAGER	Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											HOLD	Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)		
				TOC EPA 9060A	PH EPA SW-846 9045D	Moisture Content													
CFH-002-FD-S001-01242025	1/24/2025	1535	Soil	X	X	X												1	- PFAS Analysis to be conducted by Eurofins Sacramento
CFH-002-N-S003-01242025	1/24/2025	1510	Soil	X	X	X												1	- TOC Total Organic Carbon
CFH-002-N-S006-01242025	1/24/2025	1515	Soil											X			1		
CFH-002-N-S010-01242025	1/24/2025	1520	Soil											X			1		
CFH-002-N-S012-01242025	1/24/2025	1525	Soil											X			1		
CFH-001-N-S000-01242025	1/24/2025	1545	Soil											X			1		
CFH-001-N-S001-01242025	1/24/2025	1550	Soil	X	X	X											1		
CFH-001-N-S003-01242025	1/24/2025	1555	Soil	X	X	X											1		
CFH-001-N-S006-01242025	1/24/2025	1600	Soil											X			1		
CFH-001-N-S010-01242025	1/24/2025	1605	Soil											X			1		

Sampled and Relinquished by		Received by		LIQUID											Sampling Comments		
Sign: <i>[Signature]</i> Print: Zack Castillo da Silva Firm: Haley Aldrich Date: 01/24/2025 Time: 1800		Sign: <i>[Signature]</i> Print: Luke Pedraza Firm: H&A Date: 1/24/25 1800													VOA Vial Amber Glass Plastic Bottle Preservative Volume		
Sign: <i>[Signature]</i> Print: Luke Pedraza Firm: H&A Date: 1/24/25 Time: 15:20		Sign: <i>[Signature]</i> Print: Desene N. Beaudry Firm: EPA Spokane Date: 01/27/25 1530													VOA Vial Amber Glass Clear Glass Preservative Volume		
															Evidence samples were tampered with? YES NO If YES, please explain in section below.		
PRESERVATION KEY																	
				A Sample chilled			C NaOH			E H ₂ SO ₄			G Methanol				
				B Sample filtered			D HNO ₃			F HCL			H Water/NaHSO ₄ (circle)				

If Presumptive Certainty Data Package is needed, initial all sections: The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty. Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein. This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples. If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.		Required Reporting Limits and Data Quality Objectives <input type="checkbox"/> RC-S1 <input type="checkbox"/> S1 <input type="checkbox"/> GW1 <input type="checkbox"/> RC-S2 <input type="checkbox"/> S2 <input type="checkbox"/> GW2 <input type="checkbox"/> RC-GW1 <input type="checkbox"/> S3 <input type="checkbox"/> GW3 <input type="checkbox"/> RC-GW2
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H&A FILE NO. 0209800-001 LABORATORY Eurofins Environmental Testing DELIVERY DATE 1/27/25
PROJECT NAME Geiger Field PFAS Support ADDRESS 11922 E 1st Ave, Spokane Valley, WA 99206 TURNAROUND TIME Standard
H&A CONTACT Breeyn Greer CONTACT Randee Arrington PROJECT MANAGER Breeyn Greer

Sample No.	Date	Time	Type	Analysis Requested											Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
				TOC EPA 9060A	PH EPA SW-846 9045D	Moisture Content											
CFH-001-N-S013-01242025	1/24/2025	1610	Soil												X	1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
CFH-006-N-S003-01242025	1/24/2025	1155	Soil	X	X	X										1	- TOC: Total Organic Carbon
																1	
																1	
																1	
																1	
																1	
																1	

Sampled and Relinquished by		Received by		LIQUID											Sampling Comments		
Sign	Sign	Print Zack Castillo da Silva	Print Luke Peden														VOA Vial
Firm Haley Aldrich	Firm Haley & Aldrich	Date 01/24/2025 Time 16:00	Date 1/24/25 11:00														Amber Glass
Relinquished by	Received by																Plastic Bottle
Sign	Sign	Print Luke Peden	Print Breeyn Greer														Preservative
Firm H&A	Firm Spokane	Date 1/27/25 Time 15:20	Date 1/27/25 15:30														Volume
Relinquished by	Received by																
Sign	Sign																VOA Vial
Print	Print																Amber Glass
Firm	Firm																Clear Glass
Date	Date																Preservative
																	Volume

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required.

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

CHAIN OF CUSTODY RECORD

H&A FILE NO. 0704900-001 LABORATORY Isstech Laboratories DELIVERY DATE 1/23/05
 PROJECT NAME Geig Field DEAS Support ADDRESS _____ TURNAROUND TIME Standards
 H&A CONTACT Breanna Green CONTACT _____ PROJECT MANAGER Breanna Green

Sample No.	Date	Time	Depth	Type	Spike	Isotopes	Analysis Requested										Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
							1	2	3	4	5	6	7	8	9	10		
GDF-GR-8-N-0110205	1/23/05	10:15	—	H ₂ O	X													
GDF-GR-7D-N-0110205	1/23/05	11:05	—	H ₂ O	X													
GDF-GR-7S-N-0110205	1/23/05	10:05	—	H ₂ O	X													
GCF-MW-5D-N-0113205	1/13/05	12:40	—	H ₂ O	X													
GCF-MW-13-N-0113205	1/13/05	10:40	—	H ₂ O	X													
GCF-MW-5-N-0113205	1/13/05	11:40	—	H ₂ O	X													
GCF-MW-5-FD-0113205	1/13/05	12:10	—	H ₂ O	X													
GCF-MW-11-N-0113205	1/13/05	13:05	—	H ₂ O	X													
GCF-MW-7-N-0113205	1/13/05	14:45	—	H ₂ O	X													
GCF-MW-11B-N-0113205	1/13/05	16:10	—	H ₂ O	X													

Via V540W
Laboratory to use applicable DEP CAM methods, unless otherwise directed.

Sampled and Relinquished by Sign <u>[Signature]</u> Print <u>Luke Peden</u> Firm <u>Haley & Aldrich</u> Date <u>1/23/05</u> Time <u>13:00</u>	Received by Sign _____ Print _____ Firm _____ Date _____ Time _____	LIQUID VOA Vial _____ Amber Glass _____ Plastic Bottle _____ Preservative _____ Volume _____	Sampling Comments _____ _____
Relinquished by Sign _____ Print _____ Firm _____ Date _____ Time _____	Received by Sign _____ Print _____ Firm _____ Date _____ Time _____	SOLID VOA Vial _____ Amber Glass _____ Clear Glass _____ Preservative _____ Volume _____	Evidence samples were tampered with? YES NO If YES, please explain in section below.
Relinquished by Sign _____ Print _____ Firm _____ Date _____ Time _____		PRESERVATION KEY A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)	

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:
 _____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
 _____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
 _____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
 _____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447

Fax (509) 960-7447

Page 2 of 3 *LP*

H&A FILE NO. 0104902-001
PROJECT NAME Geog Field PFAS Support
H&A CONTACT Breelyn Greer

LABORATORY Isotech Laboratories
ADDRESS _____
CONTACT _____

DELIVERY DATE 1/23/25
TURNAROUND TIME Standards
PROJECT MANAGER Breelyn Greer

Sample No.	Date	Time	Depth	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
					Stable	Isotopes												
EA-MW-5B-N-01132025	1/13/25	15:30	—	H ₂ O	X													Via VSMW Laboratory to use applicable DEP CAM methods, unless otherwise directed.
EA-MW-8B-N-01142025	1/14/25	11:50	—		X													
GCF-MW-11A-N-01142025	1/14/25	10:35	—		X													
GCF-MW-12A-N-01142025	1/14/25	11:55	—		X													
GCF-MW-12A-FD-01142025	1/14/25	12:25	—		X													
GCF-MW-12B-N-01142025	1/14/25	13:15	—		X													
GDF-MW-10A-N-01142025	1/14/25	14:30	—		X													
GDF-MW-10B-N-01142025	1/14/25	15:15	—		X													
GDF-GR-5-N-01142025	1/14/25	14:05	—		X													
GDF-GR-2-FD-01152025	1/15/25	9:55	—		X													

Sampled and Relinquished by		Received by		LIQUID												Sampling Comments	
Sign <u>[Signature]</u>	Sign _____													VOA-Vial			
Print <u>Luke Peden</u>	Print _____													Amber Glass			
Firm <u>Haley + Aldrich</u>	Firm _____													Plastic Bottle			
Date <u>1/23/25</u> Time <u>13:00</u>	Date _____ Time _____													Preservative			
Relinquished by		Received by		SOLID												Evidence samples were tampered with? YES NO	
Sign _____	Sign _____													VOA Vial			
Print _____	Print _____													Amber Glass			
Firm _____	Firm _____													Clear Glass			
Date _____ Time _____	Date _____ Time _____													Preservative			
Relinquished by		Received by		PRESERVATION KEY												If YES, please explain in section below.	
Sign _____	Sign _____	A Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)															
Print _____	Print _____													Volume			
Firm _____	Firm _____																
Date _____ Time _____	Date _____ Time _____																

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

Required Reporting Limits and Data Quality Objectives		
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		



Haley & Aldrich, Inc.
505 W Riverside Ave.,
STE 450,
Spokane, WA 99201-0513

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447

Fax (509) 960-7447

Page ~~3~~ of ~~3~~ LWP

H&A FILE NO. DL201802-001
PROJECT NAME Clayton Field PEAS Support
H&A CONTACT Bryanna Cullen

LABORATORY Isotech Laboratories
ADDRESS _____
CONTACT _____

DELIVERY DATE 1/23/25
TURNAROUND TIME Standard
PROJECT MANAGER Bryanna Cullen

Sample No.	Date	Time	Depth	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
					Stable	Isotopes												
GDF-GR-2-N-0152025	1/15/25	9:45	—	H ₂ O	X												1	Via VS/MOW Laboratory to use applicable DEP CAM methods, unless otherwise directed.
GDF-GR-3-N-0152025	1/15/25	9:05	—	H ₂ O	X													
GDF-GR-4-N-0152025	1/15/25	10:45	—	H ₂ O	X													
GCF-MW-8-N-01172025	1/17/25	8:55	—	H ₂ O	X													
GCF-MW-8-FD-N-01172025	1/17/25	9:25	—	H ₂ O	X													
GCF-MW-10-N-01172025	1/17/25	10:45	—	H ₂ O	X													
EA-MW-7B-N-01172025	1/17/25	9:10	—	H ₂ O	X													
EA-MW-7A-N-01172025	1/17/25	10:40	—	H ₂ O	X													
EA-MW-14B-N-01072025	1/16/25	13:40	—	H ₂ O	X													

Sampled and Relinquished by		Received by		LIQUID												Sampling Comments		
Sign <u>LA</u>	Sign																VOA Vial	
Print <u>Late Peden</u>	Print																Amber Glass	
Firm <u>Haley & Aldrich</u>	Firm																Plastic Bottle	
Date <u>1/23/25</u> Time <u>13:00</u>	Date	Time															Preservative	
Relinquished by		Received by		SOLID												Evidence samples were tampered with? YES NO		
Sign	Sign																Volume	
Print	Print																VOA Vial	
Firm	Firm																Amber Glass	
Date	Date	Time	Time														Clear Glass	
Relinquished by		Received by		PRESERVATION KEY												If YES, please explain in section below.		
Sign	Sign			<u>A</u> Sample chilled C NaOH E H ₂ SO ₄ G Methanol B Sample filtered D HNO ₃ F HCL H Water/NaHSO ₄ (circle)														
Print	Print																	
Firm	Firm																	
Date	Date	Time	Time															

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

Required Reporting Limits and Data Quality Objectives					
<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1			
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2			
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3			
<input type="checkbox"/> RC-GW2					

CHAIN OF CUSTODY RECORD

H&A FILE NO. 0109800
PROJECT NAME Grain Field PEAS Support
H&A CONTACT Breelyn Green

LABORATORY Isotech Laboratories
ADDRESS _____
CONTACT _____

DELIVERY DATE 1/23/25
TURNAROUND TIME Standards
PROJECT MANAGER Breelyn Green

Sample No.	Date	Time	Depth	Type	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
					Stable Isotopes														
LA-MW-8-N-0100025	1/6/25	12:05	-	H ₂ O	X													1	- Stable Isotopes via VSMOW Laboratory to use applicable DEP CAM methods, unless otherwise directed.
LA-MW-10-N-0100025	1/6/25	11:15	-	H ₂ O	X												1		
LA-MW-10-FD-0100025	1/6/25	11:30	-	H ₂ O	X												1		
LA-MW-9-N-0100025	1/6/25	12:40	-	H ₂ O	X												1		
LA-MW-12-N-0100025	1/6/25	13:30	-	H ₂ O	X												1		
LA-MW-11-N-0100025	1/6/25	14:20	-	H ₂ O	X												1		
W-MW-17-N-0100025	1/6/25	10:15	-	H ₂ O	X												1		
W-MW-15-N-010725	1/7/25	9:35	-	H ₂ O	X												1		
EA-MW-14A-N-01072025	1/7/25	12:35	-	H ₂ O	X												1		
EA-MW-13A-N-01072025	1/7/25	14:50	-	H ₂ O	X												1		

Sampled and Relinquished by _____ Received by _____

Sign Luke Peden Sign _____
Print Luke Peden Print Brody Tuggle / SR Isotech
Firm Haley & Aldrich Firm _____
Date 1/23/25 Time 13:00 Date 1/24/25 Time 9:15

LIQUID

SAVED

Relinquished by _____ Received by _____

Sign _____ Sign _____
Print _____ Print _____
Firm _____ Firm _____
Date _____ Time _____ Date _____ Time _____

SOLID

SAVED

Relinquished by _____ Received by _____

Sign _____ Sign _____
Print _____ Print _____
Firm _____ Firm _____
Date _____ Time _____ Date _____ Time _____

Presumptive Certainty Data Package (Laboratory to use applicable DEP CAM methods)

If Presumptive Certainty Data Package is needed, initial all sections:

_____ The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.

_____ Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.

_____ This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.

_____ If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

Required Reporting Limits and Data Quality Objectives

RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

CHAIN OF CUSTODY RECORD

Phone (509) 960-7447

Fax (509) 960-7447

Page 2 of 3 L-IP

H&A FILE NO. 0209800-001
PROJECT NAME Geiger Field PFAS Support
H&A CONTACT Breezy Green

LABORATORY ISOTECH LABORATORIES
ADDRESS _____
CONTACT _____

DELIVERY DATE 1/23/25
TURNAROUND TIME Standard
PROJECT MANAGER BREEZY GREER

Sample No.	Date	Time	Depth	Type	Stable Isotopes	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)	
						1	2	3	4	5	6	7	8	9	10	11	12			
EA-MW-17A-FD-01072025	1/7/25	14:50	-	H ₂ O	X														1	STABLE ISOTOPES VIA VSNOW
EA-MW-13B-N-01082025	1/8/25	10:35	-	H ₂ O	X														1	Laboratory to use applicable DEP CAM methods, unless otherwise directed.
EA-MW-8A-N-01082025	1/8/25	12:00	-	H ₂ O	X													1		
EA-MW-5A-N-01082025	1/8/25	13:15	-	H ₂ O	X													1		
EA-MW-5A-FD-01082025	1/8/25	13:30	-	H ₂ O	X													1		
SWN-MW-311-N-01082025	1/8/25	14:55	-	H ₂ O	X													1		
SWN-MW-A-N-01092025	1/9/25	10:29	-	H ₂ O	X													1		
SWN-MW-3-N-01092025	1/9/25	12:25	-	H ₂ O	X													1		
SWN-MW-1-N-01092025	1/9/25	14:30	-	H ₂ O	X													1		
SWN-MW-2-N-01092025	1/9/25	15:40	-	H ₂ O	X													1		

Sampled and Relinquished by _____
Received by _____
Sign [Signature]
Print Luke Peden
Firm Haley & Aldrich
Date 1/23/25 Time 13:00

LIQUID
Sign _____
Print Brody Tuggle / SR Isotech
Firm _____
Date 1/24/25 Time 9:15

Sampling Comments
VOA Vial
Amber Glass
Plastic Bottle
Preservative
Volume

Relinquished by _____
Received by _____
Sign _____
Print _____
Firm _____
Date _____ Time _____

SOLID
Sign _____
Print _____
Firm _____
Date _____ Time _____

VOA Vial
Amber Glass
Clear Glass
Preservative
Volume

Relinquished by _____
Received by _____
Sign _____
Print _____
Firm _____
Date _____ Time _____

PRESERVATION KEY
A Sample chilled C NaOH E H₂SO₄ G Methanol
B Sample filtered D HNO₃ F HCL H Water/NaHSO₄ (circle)

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

If Presumptive Certainty Data Package is needed, initial all sections:
The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

Required Reporting Limits and Data Quality Objectives
 RC-S1 S1 GW1
 RC-S2 S2 GW2
 RC-GW1 S3 GW3
 RC-GW2

CHAIN OF CUSTODY RECORD

H&A FILE NO. 0104450-001
PROJECT NAME Geop Field METS Support
H&A CONTACT Breem Green

LABORATORY Isotech Laboratories
ADDRESS _____
CONTACT _____

DELIVERY DATE 1/23/25
TURNAROUND TIME Standard
PROJECT MANAGER Breem Green

Sample No.	Date	Time	Depth	Type	Spike	Analysis Requested												Number of Containers	Comments (special instructions, precautions, additional method numbers, etc.)
						1	2	3	4	5	6	7	8	9	10	11	12		
SWW-MW-7-N-010925	1/23/25	9:45	—	H ₂ O	X												1	via USMOW Laboratory to use applicable DEP CAM methods, unless otherwise directed.	
SWW-MW-7-FD-010925	1/23/25	10:15	—	H ₂ O	X												1		
SWW-MW-4-N-010925	1/23/25	11:15	—	H ₂ O	X												1		
SWW-MW-6-N-010925	1/23/25	12:15	—	H ₂ O	X												1		
SWW-MW-14-N-010925	1/23/25	13:10	—	H ₂ O	X												1		
SWW-MW-13-N-010925	1/23/25	14:10	—	H ₂ O	X												1		
FGF-MW-18-N-010925	1/23/25	15:30	—	H ₂ O	X												1		
SWW-MW-5-N-010925	1/23/25	7:35	—	H ₂ O	X												1		
SWW-MW-5-FD-010925	1/23/25	8:05	—	H ₂ O	X												1		
PD-MW-1A-N-010925	1/23/25	8:20	—	H ₂ O	X												1		

Sampled and Relinquished by _____
Received by _____
Sign [Signature]
Print Lucre Pedron
Firm Haley & Aldrich
Date 1/23/25 Time 13:00

LIQUID											

Sampling Comments

VOA Vial
Amber Glass
Plastic Bottle
Preservative
Volume

Relinquished by _____
Received by _____
Sign _____
Print _____
Firm _____
Date _____ Time _____

SOLID											

VOA Vial
Amber Glass
Clear Glass
Preservative
Volume

Relinquished by _____
Received by _____
Sign _____
Print _____
Firm _____
Date _____ Time _____

PRESERVATION KEY											
A Sample chilled	C NaOH	E H ₂ SO ₄	G Methanol								
B Sample filtered	D HNO ₃	F HCL	H Water/NaHSO ₄ (circle)								

Evidence samples were tampered with? YES NO
If YES, please explain in section below.

If Presumptive Certainty Data Package is needed, initial all sections:
The required minimum field QC samples, as designated in BWSC CAM-VII have been or will be collected, as appropriate, to meet the requirements of Presumptive Certainty.
Matrix Spike (MS) samples for MCP Metals and/or Cyanide are included and identified herein.
This Chain of Custody Record (specify) _____ includes _____ does not include samples defined as Drinking Water Samples.
If this Chain of Custody Record identifies samples defined as Drinking Water Samples, Trip Blanks and Field Duplicates are included and identified and analysis of TICs are required, as a

Required Reporting Limits and Data Quality Objectives

<input type="checkbox"/> RC-S1	<input type="checkbox"/> S1	<input type="checkbox"/> GW1
<input type="checkbox"/> RC-S2	<input type="checkbox"/> S2	<input type="checkbox"/> GW2
<input type="checkbox"/> RC-GW1	<input type="checkbox"/> S3	<input type="checkbox"/> GW3
<input type="checkbox"/> RC-GW2		

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX B

Investigation Derived Waste:
Laboratory Reports and Manifests

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX B-1

Laboratory Reports



ANALYTICAL REPORT

PREPARED FOR

Attn: John Busherd
Clean Harbors Environmental Services Inc
407 N Thierman Rd
Spokane Valley, Washington 99212

Generated 11/12/2025 11:29:15 AM

JOB DESCRIPTION

Spokane Airport

JOB NUMBER

590-34054-1

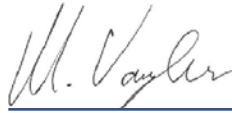
Eurofins Spokane

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing Northwest, LLC Project Manager.

Authorization



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11/12/2025 11:29:15 AM

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Case Narrative

Client: Clean Harbors Environmental Services Inc
Project: Spokane Airport

Job ID: 590-34054-1

Job ID: 590-34054-1

Eurofins Spokane

Job Narrative 590-34054-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The samples were received on 11/3/2025 3:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 14.5°C.

PFAS

Method PFC_IDA: The concentration of one or more analytes associated with the following sample exceeded the instrument calibration range: Solids #3 (590-34054-3). These analytes have been qualified; however, the peak(s) did not saturate the instrument detector. Historical data indicate that for the isotope dilution method, dilution and re-analysis will not produce significantly different results from those reported above the calibration range.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Sample Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
590-34054-1	Solids #1	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-2	Solids #2	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-3	Solids #3	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-4	Solids #4	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-5	Solids #5	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-6	Solids #6	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-7	Solids #7	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-8	Solids #8	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-9	Solids #9	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-10	Solids #10	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-11	Solids #11	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-12	Solids #12	Solid	11/03/25 00:00	11/03/25 15:20	Washington
590-34054-13	Solids #13	Solid	11/03/25 00:00	11/03/25 15:20	Washington



Definitions/Glossary

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Qualifiers

LCMS

Qualifier	Qualifier Description
E	Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #1

Lab Sample ID: 590-34054-1

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.56		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluoropentanoic acid (PFPeA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorohexanoic acid (PFHxA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluoroheptanoic acid (PFHpA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorooctanoic acid (PFOA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorononanoic acid (PFNA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorodecanoic acid (PFDA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorododecanoic acid (PFDoA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
NMeFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
NEtFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
4:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
6:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
8:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
9Cl-PF3ONS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
HFPO-DA (GenX)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
11Cl-PF3OUdS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
NFDHA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
PFMBA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
PFMPA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1
PFEESA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:14	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	91		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C5 PFPeA	70		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C2 PFHxA	82		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C4 PFHpA	87		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C4 PFOA	84		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C5 PFNA	84		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C2 PFDA	76		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C2 PFUnA	77		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C2 PFDoA	73		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C2 PFTeDA	66		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C3 PFBS	64		25 - 150	11/11/25 04:57	11/11/25 20:14	1
18O2 PFHxS	79		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C4 PFOS	70		25 - 150	11/11/25 04:57	11/11/25 20:14	1
d3-NMeFOSAA	63		25 - 150	11/11/25 04:57	11/11/25 20:14	1
d5-NEtFOSAA	67		25 - 150	11/11/25 04:57	11/11/25 20:14	1
M2-4:2 FTS	77		25 - 150	11/11/25 04:57	11/11/25 20:14	1
M2-6:2 FTS	70		25 - 150	11/11/25 04:57	11/11/25 20:14	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #1

Lab Sample ID: 590-34054-1

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	65		25 - 150	11/11/25 04:57	11/11/25 20:14	1
13C3 HFPO-DA	76		25 - 150	11/11/25 04:57	11/11/25 20:14	1

Client Sample ID: Solids #2

Lab Sample ID: 590-34054-2

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 91.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.54		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluoropentanoic acid (PFPeA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorohexanoic acid (PFHxA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluoroheptanoic acid (PFHpA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorooctanoic acid (PFOA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorononanoic acid (PFNA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorodecanoic acid (PFDA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorododecanoic acid (PFDoA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorohexanesulfonic acid (PFHxS)	0.53		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
NMeFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
NEtFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
4:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
6:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
8:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
9Cl-PF3ONS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
HFPO-DA (GenX)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
11Cl-PF3OUdS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
NFDHA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
PFMBA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
PFMPA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
PFEESA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:45	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
13C4 PFBA	100		25 - 150	11/11/25 04:57	11/11/25 20:45	1			
13C5 PFPeA	79		25 - 150	11/11/25 04:57	11/11/25 20:45	1			
13C2 PFHxA	102		25 - 150	11/11/25 04:57	11/11/25 20:45	1			
13C4 PFHpA	100		25 - 150	11/11/25 04:57	11/11/25 20:45	1			
13C4 PFOA	96		25 - 150	11/11/25 04:57	11/11/25 20:45	1			
13C5 PFNA	95		25 - 150	11/11/25 04:57	11/11/25 20:45	1			
13C2 PFDA	87		25 - 150	11/11/25 04:57	11/11/25 20:45	1			
13C2 PFUnA	85		25 - 150	11/11/25 04:57	11/11/25 20:45	1			

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #2

Lab Sample ID: 590-34054-2

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 91.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	82		25 - 150	11/11/25 04:57	11/11/25 20:45	1
13C2 PFTeDA	69		25 - 150	11/11/25 04:57	11/11/25 20:45	1
13C3 PFBS	75		25 - 150	11/11/25 04:57	11/11/25 20:45	1
18O2 PFHxS	96		25 - 150	11/11/25 04:57	11/11/25 20:45	1
13C4 PFOS	82		25 - 150	11/11/25 04:57	11/11/25 20:45	1
d3-NMeFOSAA	74		25 - 150	11/11/25 04:57	11/11/25 20:45	1
d5-NEtFOSAA	78		25 - 150	11/11/25 04:57	11/11/25 20:45	1
M2-4:2 FTS	87		25 - 150	11/11/25 04:57	11/11/25 20:45	1
M2-6:2 FTS	83		25 - 150	11/11/25 04:57	11/11/25 20:45	1
M2-8:2 FTS	74		25 - 150	11/11/25 04:57	11/11/25 20:45	1
13C3 HFPO-DA	90		25 - 150	11/11/25 04:57	11/11/25 20:45	1

Client Sample ID: Solids #3

Lab Sample ID: 590-34054-3

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.3

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.55		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluoropentanoic acid (PFPeA)	0.80		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorohexanoic acid (PFHxA)	0.84		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluoroheptanoic acid (PFHpA)	0.26		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorooctanoic acid (PFOA)	1.5		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorononanoic acid (PFNA)	0.49		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorodecanoic acid (PFDA)	0.32		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorododecanoic acid (PFDoA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorohexanesulfonic acid (PFHxS)	1.6		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluoroheptanesulfonic acid (PFHpS)	0.25		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
Perfluorooctanesulfonic acid (PFOS)	44	E	0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
NMeFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
NEtFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
4:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
6:2 FTS	25	E	0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
8:2 FTS	4.5		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
9Cl-PF3ONS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
HFPO-DA (GenX)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
11Cl-PF3OUdS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
NFDHA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
PFMBA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
PFMPA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #3

Lab Sample ID: 590-34054-3

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.3

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
PFEESA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 20:55	1
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C4 PFBA	86		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C5 PFPeA	72		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C2 PFHxA	87		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C4 PFHpA	87		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C4 PFOA	88		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C5 PFNA	83		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C2 PFDA	79		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C2 PFUnA	79		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C2 PFDaA	75		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C2 PFTeDA	68		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C3 PFBS	70		25 - 150				11/11/25 04:57	11/11/25 20:55	1
18O2 PFHxS	83		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C4 PFOS	76		25 - 150				11/11/25 04:57	11/11/25 20:55	1
d3-NMeFOSAA	65		25 - 150				11/11/25 04:57	11/11/25 20:55	1
d5-NEtFOSAA	65		25 - 150				11/11/25 04:57	11/11/25 20:55	1
M2-4:2 FTS	87		25 - 150				11/11/25 04:57	11/11/25 20:55	1
M2-6:2 FTS	74		25 - 150				11/11/25 04:57	11/11/25 20:55	1
M2-8:2 FTS	69		25 - 150				11/11/25 04:57	11/11/25 20:55	1
13C3 HFPO-DA	76		25 - 150				11/11/25 04:57	11/11/25 20:55	1

Client Sample ID: Solids #4

Lab Sample ID: 590-34054-4

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 94.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.52		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluoropentanoic acid (PFPeA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorohexanoic acid (PFHxA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluoroheptanoic acid (PFHpA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorooctanoic acid (PFOA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorononanoic acid (PFNA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorodecanoic acid (PFDA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluoroundecanoic acid (PFUnA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorododecanoic acid (PFDaA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
NMeFOSAA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
NEtFOSAA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
4:2 FTS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
6:2 FTS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #4

Lab Sample ID: 590-34054-4

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 94.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
8:2 FTS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
9Cl-PF3ONS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
HFPO-DA (GenX)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
11Cl-PF3OUdS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
NFDHA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
PFMBA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
PFMPA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1
PFEESA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 21:06	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	75		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C5 PFPeA	60		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C2 PFHxA	69		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C4 PFHpA	74		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C4 PFOA	76		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C5 PFNA	68		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C2 PFDA	65		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C2 PFUnA	68		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C2 PFDoA	66		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C2 PFTeDA	56		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C3 PFBS	59		25 - 150	11/11/25 04:57	11/11/25 21:06	1
18O2 PFHxS	69		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C4 PFOS	64		25 - 150	11/11/25 04:57	11/11/25 21:06	1
d3-NMeFOSAA	60		25 - 150	11/11/25 04:57	11/11/25 21:06	1
d5-NEtFOSAA	63		25 - 150	11/11/25 04:57	11/11/25 21:06	1
M2-4:2 FTS	34		25 - 150	11/11/25 04:57	11/11/25 21:06	1
M2-6:2 FTS	61		25 - 150	11/11/25 04:57	11/11/25 21:06	1
M2-8:2 FTS	56		25 - 150	11/11/25 04:57	11/11/25 21:06	1
13C3 HFPO-DA	65		25 - 150	11/11/25 04:57	11/11/25 21:06	1

Client Sample ID: Solids #5

Lab Sample ID: 590-34054-5

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 99.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.48		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluoropentanoic acid (PFPeA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorohexanoic acid (PFHxA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorooctanoic acid (PFOA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorononanoic acid (PFNA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorodecanoic acid (PFDA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorododecanoic acid (PFDoA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #5

Lab Sample ID: 590-34054-5

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 99.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
Perfluorooctanesulfonic acid (PFOS)	0.53		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
NMeFOSAA	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
NEtFOSAA	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
4:2 FTS	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
6:2 FTS	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
8:2 FTS	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
9Cl-PF3ONS	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
HFPO-DA (GenX)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
11Cl-PF3OUdS	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
NFDHA	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
PFMBA	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
PFMPA	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1
PFEESA	ND		0.19		ug/Kg	☼	11/11/25 04:57	11/11/25 21:16	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	89		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C5 PFPeA	75		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C2 PFHxA	91		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C4 PFHpA	89		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C4 PFOA	83		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C5 PFNA	81		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C2 PFDA	78		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C2 PFUnA	77		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C2 PFDoA	68		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C2 PFTeDA	66		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C3 PFBS	68		25 - 150	11/11/25 04:57	11/11/25 21:16	1
18O2 PFHxS	83		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C4 PFOS	69		25 - 150	11/11/25 04:57	11/11/25 21:16	1
d3-NMeFOSAA	60		25 - 150	11/11/25 04:57	11/11/25 21:16	1
d5-NEtFOSAA	63		25 - 150	11/11/25 04:57	11/11/25 21:16	1
M2-4:2 FTS	77		25 - 150	11/11/25 04:57	11/11/25 21:16	1
M2-6:2 FTS	76		25 - 150	11/11/25 04:57	11/11/25 21:16	1
M2-8:2 FTS	64		25 - 150	11/11/25 04:57	11/11/25 21:16	1
13C3 HFPO-DA	80		25 - 150	11/11/25 04:57	11/11/25 21:16	1

Client Sample ID: Solids #6

Lab Sample ID: 590-34054-6

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 96.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.51		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluoropentanoic acid (PFPeA)	0.23		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorohexanoic acid (PFHxA)	0.47		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #6

Lab Sample ID: 590-34054-6

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 96.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorooctanoic acid (PFOA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorononanoic acid (PFNA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorodecanoic acid (PFDA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorododecanoic acid (PFDoA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorohexanesulfonic acid (PFHxS)	0.33		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Perfluorooctanesulfonic acid (PFOS)	9.4		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
NMeFOSAA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
NEtFOSAA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
4:2 FTS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
6:2 FTS	0.99		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
8:2 FTS	1.5		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
9Cl-PF3ONS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
HFPO-DA (GenX)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
11Cl-PF3OUdS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
NFDHA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
PFMBA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
PFMPA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
PFEESA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 21:26	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C5 PFPeA	78		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C2 PFHxA	98		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C4 PFHpA	99		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C4 PFOA	89		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C5 PFNA	91		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C2 PFDA	84		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C2 PFUnA	84		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C2 PFDoA	80		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C2 PFTeDA	70		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C3 PFBS	71		25 - 150				11/11/25 04:57	11/11/25 21:26	1
18O2 PFHxS	84		25 - 150				11/11/25 04:57	11/11/25 21:26	1
13C4 PFOS	79		25 - 150				11/11/25 04:57	11/11/25 21:26	1
d3-NMeFOSAA	68		25 - 150				11/11/25 04:57	11/11/25 21:26	1
d5-NEtFOSAA	71		25 - 150				11/11/25 04:57	11/11/25 21:26	1
M2-4:2 FTS	90		25 - 150				11/11/25 04:57	11/11/25 21:26	1
M2-6:2 FTS	81		25 - 150				11/11/25 04:57	11/11/25 21:26	1
M2-8:2 FTS	71		25 - 150				11/11/25 04:57	11/11/25 21:26	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #6

Lab Sample ID: 590-34054-6

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 96.1

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C3 HFPO-DA	84		25 - 150	11/11/25 04:57	11/11/25 21:26	1

Client Sample ID: Solids #7

Lab Sample ID: 590-34054-7

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 97.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.49		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluoropentanoic acid (PFPeA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorohexanoic acid (PFHxA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorooctanoic acid (PFOA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorononanoic acid (PFNA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorodecanoic acid (PFDA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorododecanoic acid (PFDoA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorotridecanoic acid (PFTriDA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorohexanesulfonic acid (PFHxS)	0.21		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
Perfluorooctanesulfonic acid (PFOS)	4.2		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
NMeFOSAA	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
NEtFOSAA	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
4:2 FTS	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
6:2 FTS	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
8:2 FTS	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
9Cl-PF3ONS	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
HFPO-DA (GenX)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
11Cl-PF3OUdS	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
NFDHA	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
PFMBA	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
PFMPA	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1
PFEESA	ND		0.20		ug/Kg	✱	11/11/25 04:57	11/11/25 21:47	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	61		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C5 PFPeA	62		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C2 PFHxA	74		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C4 PFHpA	79		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C4 PFOA	70		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C5 PFNA	70		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C2 PFDA	66		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C2 PFUnA	65		25 - 150	11/11/25 04:57	11/11/25 21:47	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #7

Lab Sample ID: 590-34054-7

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 97.2

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFDoA	60		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C2 PFTeDA	55		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C3 PFBS	58		25 - 150	11/11/25 04:57	11/11/25 21:47	1
18O2 PFHxS	67		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C4 PFOS	59		25 - 150	11/11/25 04:57	11/11/25 21:47	1
d3-NMeFOSAA	46		25 - 150	11/11/25 04:57	11/11/25 21:47	1
d5-NEtFOSAA	49		25 - 150	11/11/25 04:57	11/11/25 21:47	1
M2-4:2 FTS	59		25 - 150	11/11/25 04:57	11/11/25 21:47	1
M2-6:2 FTS	64		25 - 150	11/11/25 04:57	11/11/25 21:47	1
M2-8:2 FTS	52		25 - 150	11/11/25 04:57	11/11/25 21:47	1
13C3 HFPO-DA	70		25 - 150	11/11/25 04:57	11/11/25 21:47	1

Client Sample ID: Solids #8

Lab Sample ID: 590-34054-8

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 96.3

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.48		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluoropentanoic acid (PFPeA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorohexanoic acid (PFHxA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluoroheptanoic acid (PFHpA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorooctanoic acid (PFOA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorononanoic acid (PFNA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorodecanoic acid (PFDA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluoroundecanoic acid (PFUnA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorododecanoic acid (PFDoA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
NMeFOSAA	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
NEtFOSAA	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
4:2 FTS	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
6:2 FTS	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
8:2 FTS	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
9Cl-PF3ONS	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
HFPO-DA (GenX)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
11Cl-PF3OUdS	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
NFDHA	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
PFMBA	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
PFMPA	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1
PFEESA	ND		0.19		ug/Kg	✳	11/11/25 04:57	11/11/25 21:58	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #8

Lab Sample ID: 590-34054-8

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 96.3

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	71		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C5 PFPeA	63		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C2 PFHxA	71		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C4 PFHpA	78		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C4 PFOA	70		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C5 PFNA	68		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C2 PFDA	63		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C2 PFUnA	64		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C2 PFDoA	53		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C2 PFTeDA	53		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C3 PFBS	60		25 - 150	11/11/25 04:57	11/11/25 21:58	1
18O2 PFHxS	70		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C4 PFOS	62		25 - 150	11/11/25 04:57	11/11/25 21:58	1
d3-NMeFOSAA	50		25 - 150	11/11/25 04:57	11/11/25 21:58	1
d5-NEtFOSAA	54		25 - 150	11/11/25 04:57	11/11/25 21:58	1
M2-4:2 FTS	71		25 - 150	11/11/25 04:57	11/11/25 21:58	1
M2-6:2 FTS	72		25 - 150	11/11/25 04:57	11/11/25 21:58	1
M2-8:2 FTS	55		25 - 150	11/11/25 04:57	11/11/25 21:58	1
13C3 HFPO-DA	66		25 - 150	11/11/25 04:57	11/11/25 21:58	1

Client Sample ID: Solids #9

Lab Sample ID: 590-34054-9

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 89.9

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.51		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluoropentanoic acid (PFPeA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorohexanoic acid (PFHxA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluoroheptanoic acid (PFHpA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorooctanoic acid (PFOA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorononanoic acid (PFNA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorodecanoic acid (PFDA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluoroundecanoic acid (PFUnA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorododecanoic acid (PFDoA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorohexanesulfonic acid (PFHxS)	0.99		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
Perfluorooctanesulfonic acid (PFOS)	8.7		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
NMeFOSAA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
NEtFOSAA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
4:2 FTS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
6:2 FTS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
8:2 FTS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
9CI-PF3ONS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #9

Lab Sample ID: 590-34054-9

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 89.9

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
HFPO-DA (GenX)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
11Cl-PF3OUdS	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
NFDHA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
PFMBA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
PFMPA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1
PFEESA	ND		0.21		ug/Kg	☼	11/11/25 04:57	11/11/25 22:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	90		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C5 PFPeA	69		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C2 PFHxA	89		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C4 PFHpA	90		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C4 PFOA	87		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C5 PFNA	85		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C2 PFDA	72		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C2 PFUnA	70		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C2 PFDoA	64		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C2 PFTeDA	62		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C3 PFBS	67		25 - 150	11/11/25 04:57	11/11/25 22:08	1
18O2 PFHxS	78		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C4 PFOS	68		25 - 150	11/11/25 04:57	11/11/25 22:08	1
d3-NMeFOSAA	58		25 - 150	11/11/25 04:57	11/11/25 22:08	1
d5-NEtFOSAA	64		25 - 150	11/11/25 04:57	11/11/25 22:08	1
M2-4:2 FTS	69		25 - 150	11/11/25 04:57	11/11/25 22:08	1
M2-6:2 FTS	66		25 - 150	11/11/25 04:57	11/11/25 22:08	1
M2-8:2 FTS	59		25 - 150	11/11/25 04:57	11/11/25 22:08	1
13C3 HFPO-DA	80		25 - 150	11/11/25 04:57	11/11/25 22:08	1

Client Sample ID: Solids #10

Lab Sample ID: 590-34054-10

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 86.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.57		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluoropentanoic acid (PFPeA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorohexanoic acid (PFHxA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluoroheptanoic acid (PFHpA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorooctanoic acid (PFOA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorononanoic acid (PFNA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorodecanoic acid (PFDA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluoroundecanoic acid (PFUnA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorododecanoic acid (PFDoA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorotridecanoic acid (PFTeDA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #10

Lab Sample ID: 590-34054-10

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 86.4

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
NMeFOSAA	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
NEtFOSAA	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
4:2 FTS	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
6:2 FTS	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
8:2 FTS	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
9Cl-PF3ONS	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
HFPO-DA (GenX)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
11Cl-PF3OUdS	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
NFDHA	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
PFMBA	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
PFMPA	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
PFEESA	ND		0.23		ug/Kg	☼	11/11/25 04:57	11/11/25 22:18	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	99		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C5 PFPeA	78		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C2 PFHxA	93		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C4 PFHpA	96		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C4 PFOA	91		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C5 PFNA	94		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C2 PFDA	84		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C2 PFUnA	79		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C2 PFDoA	73		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C2 PFTeDA	72		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C3 PFBS	76		25 - 150				11/11/25 04:57	11/11/25 22:18	1
18O2 PFHxS	93		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C4 PFOS	80		25 - 150				11/11/25 04:57	11/11/25 22:18	1
d3-NMeFOSAA	57		25 - 150				11/11/25 04:57	11/11/25 22:18	1
d5-NEtFOSAA	65		25 - 150				11/11/25 04:57	11/11/25 22:18	1
M2-4:2 FTS	90		25 - 150				11/11/25 04:57	11/11/25 22:18	1
M2-6:2 FTS	81		25 - 150				11/11/25 04:57	11/11/25 22:18	1
M2-8:2 FTS	76		25 - 150				11/11/25 04:57	11/11/25 22:18	1
13C3 HFPO-DA	88		25 - 150				11/11/25 04:57	11/11/25 22:18	1

Client Sample ID: Solids #11

Lab Sample ID: 590-34054-11

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.7

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.56		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluoropentanoic acid (PFPeA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorohexanoic acid (PFHxA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluoroheptanoic acid (PFHpA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorooctanoic acid (PFOA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorononanoic acid (PFNA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1

Eurofins Spokane

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #11

Lab Sample ID: 590-34054-11

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.7

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorodecanoic acid (PFDA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluoroundecanoic acid (PFUnA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorododecanoic acid (PFDoA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
NMeFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
NEtFOSAA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
4:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
6:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
8:2 FTS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
9Cl-PF3ONS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
HFPO-DA (GenX)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
11Cl-PF3OUdS	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
NFDHA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
PFMBA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
PFMPA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
PFEESA	ND		0.22		ug/Kg	☼	11/11/25 04:57	11/11/25 22:29	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C4 PFBA	76		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C5 PFPeA	62		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C2 PFHxA	74		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C4 PFHpA	73		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C4 PFOA	72		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C5 PFNA	75		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C2 PFDA	68		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C2 PFUnA	71		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C2 PFDoA	68		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C2 PFTeDA	60		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C3 PFBS	61		25 - 150				11/11/25 04:57	11/11/25 22:29	1
18O2 PFHxS	70		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C4 PFOS	64		25 - 150				11/11/25 04:57	11/11/25 22:29	1
d3-NMeFOSAA	54		25 - 150				11/11/25 04:57	11/11/25 22:29	1
d5-NEtFOSAA	56		25 - 150				11/11/25 04:57	11/11/25 22:29	1
M2-4:2 FTS	66		25 - 150				11/11/25 04:57	11/11/25 22:29	1
M2-6:2 FTS	61		25 - 150				11/11/25 04:57	11/11/25 22:29	1
M2-8:2 FTS	62		25 - 150				11/11/25 04:57	11/11/25 22:29	1
13C3 HFPO-DA	68		25 - 150				11/11/25 04:57	11/11/25 22:29	1

Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #12

Lab Sample ID: 590-34054-12

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 98.5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.50		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluoropentanoic acid (PFPeA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorohexanoic acid (PFHxA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorooctanoic acid (PFOA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorononanoic acid (PFNA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorodecanoic acid (PFDA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorododecanoic acid (PFDoA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
NMeFOSAA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
NEtFOSAA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
4:2 FTS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
6:2 FTS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
8:2 FTS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
9Cl-PF3ONS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
HFPO-DA (GenX)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
11Cl-PF3OUdS	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
NFDHA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
PFMBA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
PFMPA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1
PFEESA	ND		0.20		ug/Kg	☼	11/11/25 04:57	11/11/25 22:39	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	96		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C5 PFPeA	75		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C2 PFHxA	89		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C4 PFHpA	97		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C4 PFOA	93		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C5 PFNA	91		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C2 PFDA	84		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C2 PFUnA	87		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C2 PFDoA	78		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C2 PFTeDA	67		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C3 PFBS	74		25 - 150	11/11/25 04:57	11/11/25 22:39	1
18O2 PFHxS	85		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C4 PFOS	76		25 - 150	11/11/25 04:57	11/11/25 22:39	1
d3-NMeFOSAA	70		25 - 150	11/11/25 04:57	11/11/25 22:39	1
d5-NEtFOSAA	78		25 - 150	11/11/25 04:57	11/11/25 22:39	1
M2-4:2 FTS	85		25 - 150	11/11/25 04:57	11/11/25 22:39	1
M2-6:2 FTS	80		25 - 150	11/11/25 04:57	11/11/25 22:39	1

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Client Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #12

Lab Sample ID: 590-34054-12

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 98.5

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-8:2 FTS	69		25 - 150	11/11/25 04:57	11/11/25 22:39	1
13C3 HFPO-DA	82		25 - 150	11/11/25 04:57	11/11/25 22:39	1

Client Sample ID: Solids #13

Lab Sample ID: 590-34054-13

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 82.0

Method: EPA 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		0.60		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluoropentanoic acid (PFPeA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorohexanoic acid (PFHxA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluoroheptanoic acid (PFHpA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorooctanoic acid (PFOA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorononanoic acid (PFNA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorodecanoic acid (PFDA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluoroundecanoic acid (PFUnA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorododecanoic acid (PFDoA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorotridecanoic acid (PFTTrDA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
NMeFOSAA	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
NEtFOSAA	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
4:2 FTS	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
6:2 FTS	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
8:2 FTS	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
9Cl-PF3ONS	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
HFPO-DA (GenX)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
11Cl-PF3OUdS	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
NFDHA	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
PFMBA	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
PFMPA	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1
PFEESA	ND		0.24		ug/Kg	☼	11/11/25 04:57	11/11/25 22:50	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFBA	77		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C5 PFPeA	59		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C2 PFHxA	72		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C4 PFHpA	73		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C4 PFOA	69		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C5 PFNA	66		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C2 PFDA	61		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C2 PFUnA	56		25 - 150	11/11/25 04:57	11/11/25 22:50	1

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Client Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #13

Lab Sample ID: 590-34054-13

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 82.0

Method: EPA 537 (modified) - Fluorinated Alkyl Substances (Continued)

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFDoA	51		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C2 PFTeDA	51		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C3 PFBS	63		25 - 150	11/11/25 04:57	11/11/25 22:50	1
18O2 PFHxS	72		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C4 PFOS	63		25 - 150	11/11/25 04:57	11/11/25 22:50	1
d3-NMeFOSAA	32		25 - 150	11/11/25 04:57	11/11/25 22:50	1
d5-NEtFOSAA	36		25 - 150	11/11/25 04:57	11/11/25 22:50	1
M2-4:2 FTS	63		25 - 150	11/11/25 04:57	11/11/25 22:50	1
M2-6:2 FTS	63		25 - 150	11/11/25 04:57	11/11/25 22:50	1
M2-8:2 FTS	46		25 - 150	11/11/25 04:57	11/11/25 22:50	1
13C3 HFPO-DA	71		25 - 150	11/11/25 04:57	11/11/25 22:50	1

QC Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-886208/1-A

Matrix: Solid

Analysis Batch: 886386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 886208

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		0.50		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluoropentanoic acid (PFPeA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorohexanoic acid (PFHxA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluoroheptanoic acid (PFHpA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorooctanoic acid (PFOA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorononanoic acid (PFNA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorodecanoic acid (PFDA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluoroundecanoic acid (PFUnA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorododecanoic acid (PFDoA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorotridecanoic acid (PFTrDA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorobutanesulfonic acid (PFBS)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluoropentanesulfonic acid (PFPeS)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorohexanesulfonic acid (PFHxS)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluoroheptanesulfonic acid (PFHpS)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
Perfluorooctanesulfonic acid (PFOS)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
NMeFOSAA	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
NEtFOSAA	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
4:2 FTS	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
6:2 FTS	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
8:2 FTS	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
9Cl-PF3ONS	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
HFPO-DA (GenX)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
11Cl-PF3OUdS	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
NFDHA	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
PFMBA	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
PFMPA	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1
PFEESA	ND		0.20		ug/Kg		11/11/25 04:57	11/11/25 19:53	1

Isotope Dilution	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C4 PFBA	94		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C5 PFPeA	75		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C2 PFHxA	97		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C4 PFHpA	95		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C4 PFOA	94		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C5 PFNA	92		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C2 PFDA	83		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C2 PFUnA	86		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C2 PFDoA	81		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C2 PFTeDA	72		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C3 PFBS	84		25 - 150	11/11/25 04:57	11/11/25 19:53	1
18O2 PFHxS	95		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C4 PFOS	86		25 - 150	11/11/25 04:57	11/11/25 19:53	1
d3-NMeFOSAA	77		25 - 150	11/11/25 04:57	11/11/25 19:53	1
d5-NEtFOSAA	79		25 - 150	11/11/25 04:57	11/11/25 19:53	1

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QC Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 320-886208/1-A

Matrix: Solid

Analysis Batch: 886386

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 886208

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
M2-4:2 FTS	99		25 - 150	11/11/25 04:57	11/11/25 19:53	1
M2-6:2 FTS	98		25 - 150	11/11/25 04:57	11/11/25 19:53	1
M2-8:2 FTS	90		25 - 150	11/11/25 04:57	11/11/25 19:53	1
13C3 HFPO-DA	83		25 - 150	11/11/25 04:57	11/11/25 19:53	1

Lab Sample ID: LCS 320-886208/2-A

Matrix: Solid

Analysis Batch: 886386

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 886208

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec
							Limits
Perfluorobutanoic acid (PFBA)	2.00	1.91		ug/Kg		95	76 - 136
Perfluoropentanoic acid (PFPeA)	2.00	2.17		ug/Kg		108	74 - 134
Perfluorohexanoic acid (PFHxA)	2.00	1.96		ug/Kg		98	71 - 131
Perfluoroheptanoic acid (PFHpA)	2.00	1.98		ug/Kg		99	71 - 131
Perfluorooctanoic acid (PFOA)	2.00	2.03		ug/Kg		102	72 - 132
Perfluorononanoic acid (PFNA)	2.00	1.97		ug/Kg		98	73 - 133
Perfluorodecanoic acid (PFDA)	2.00	1.92		ug/Kg		96	72 - 132
Perfluoroundecanoic acid (PFUnA)	2.00	2.00		ug/Kg		100	75 - 135
Perfluorododecanoic acid (PFDoA)	2.00	2.10		ug/Kg		105	71 - 131
Perfluorotridecanoic acid (PFTrDA)	2.00	1.92		ug/Kg		96	71 - 131
Perfluorotetradecanoic acid (PFTeA)	2.00	1.94		ug/Kg		97	67 - 127
Perfluorobutanesulfonic acid (PFBS)	1.78	1.85		ug/Kg		104	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	1.88	2.17		ug/Kg		115	75 - 135
Perfluorohexanesulfonic acid (PFHxS)	1.82	1.68		ug/Kg		92	62 - 122
Perfluoroheptanesulfonic acid (PFHpS)	1.91	2.09		ug/Kg		110	76 - 136
Perfluorooctanesulfonic acid (PFOS)	1.86	1.83		ug/Kg		98	73 - 133
NMeFOSAA	2.00	2.08		ug/Kg		104	72 - 132
NEtFOSAA	2.00	1.69		ug/Kg		85	72 - 132
4:2 FTS	1.88	1.76		ug/Kg		94	71 - 131
6:2 FTS	1.90	1.79		ug/Kg		94	73 - 132
8:2 FTS	1.92	2.14		ug/Kg		111	75 - 135
9Cl-PF3ONS	1.87	1.87		ug/Kg		100	74 - 134
HFPO-DA (GenX)	2.00	2.00		ug/Kg		100	72 - 132
11Cl-PF3OUdS	1.89	1.90		ug/Kg		100	66 - 136
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	1.89	2.26		ug/Kg		119	70 - 147
NFDHA	2.00	1.53		ug/Kg		76	63 - 137
PFMBA	2.00	2.27		ug/Kg		114	75 - 135
PFMPA	2.00	2.19		ug/Kg		109	58 - 140
PFEESA	1.78	1.60		ug/Kg		90	75 - 135

QC Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C4 PFBA	109		25 - 150
13C5 PFPeA	85		25 - 150
13C2 PFHxA	109		25 - 150
13C4 PFHpA	103		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	96		25 - 150
13C2 PFDA	92		25 - 150
13C2 PFUnA	93		25 - 150
13C2 PFDoA	85		25 - 150
13C2 PFTeDA	82		25 - 150
13C3 PFBS	87		25 - 150
18O2 PFHxS	102		25 - 150
13C4 PFOS	87		25 - 150
d3-NMeFOSAA	89		25 - 150
d5-NEtFOSAA	84		25 - 150
M2-4:2 FTS	109		25 - 150
M2-6:2 FTS	106		25 - 150
M2-8:2 FTS	89		25 - 150
13C3 HFPO-DA	91		25 - 150

Lab Sample ID: 590-34054-1 MS

Matrix: Solid

Analysis Batch: 886386

Client Sample ID: Solids #1

Prep Type: Total/NA

Prep Batch: 886208

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
Perfluorobutanoic acid (PFBA)	ND		2.27	2.34		ug/Kg	*	103	76 - 136
Perfluoropentanoic acid (PFPeA)	ND		2.27	2.56		ug/Kg	*	113	74 - 134
Perfluorohexanoic acid (PFHxA)	ND		2.27	2.48		ug/Kg	*	109	71 - 131
Perfluoroheptanoic acid (PFHpA)	ND		2.27	2.43		ug/Kg	*	107	71 - 131
Perfluorooctanoic acid (PFOA)	ND		2.27	2.30		ug/Kg	*	101	72 - 132
Perfluorononanoic acid (PFNA)	ND		2.27	2.13		ug/Kg	*	94	73 - 133
Perfluorodecanoic acid (PFDA)	ND		2.27	2.29		ug/Kg	*	101	72 - 132
Perfluoroundecanoic acid (PFUnA)	ND		2.27	2.31		ug/Kg	*	102	75 - 135
Perfluorododecanoic acid (PFDoA)	ND		2.27	2.53		ug/Kg	*	112	71 - 131
Perfluorotridecanoic acid (PFTTrDA)	ND		2.27	2.33		ug/Kg	*	103	71 - 131
Perfluorotetradecanoic acid (PFTeA)	ND		2.27	2.28		ug/Kg	*	101	67 - 127
Perfluorobutanesulfonic acid (PFBS)	ND		2.01	2.06		ug/Kg	*	102	69 - 129
Perfluoropentanesulfonic acid (PFPeS)	ND		2.13	2.37		ug/Kg	*	111	75 - 135
Perfluorohexanesulfonic acid (PFHxS)	ND		2.07	1.91		ug/Kg	*	92	62 - 122
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.16	2.40		ug/Kg	*	111	76 - 136
Perfluorooctanesulfonic acid (PFOS)	ND		2.11	2.03		ug/Kg	*	96	73 - 133
NMeFOSAA	ND		2.27	2.49		ug/Kg	*	110	72 - 132
NEtFOSAA	ND		2.27	2.00		ug/Kg	*	88	72 - 132
4:2 FTS	ND		2.13	2.06		ug/Kg	*	97	71 - 131
6:2 FTS	ND		2.16	2.13		ug/Kg	*	99	73 - 132

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QC Sample Results

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 590-34054-1 MS

Matrix: Solid

Analysis Batch: 886386

Client Sample ID: Solids #1

Prep Type: Total/NA

Prep Batch: 886208

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec
	Result	Qualifier	Added	Result	Qualifier				
8:2 FTS	ND		2.18	2.48		ug/Kg	⊛	114	75 - 135
9Cl-PF3ONS	ND		2.12	2.26		ug/Kg	⊛	107	74 - 134
HFPO-DA (GenX)	ND		2.27	2.42		ug/Kg	⊛	107	72 - 132
11Cl-PF3OUdS	ND		2.14	2.16		ug/Kg	⊛	101	66 - 136
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.14	2.54		ug/Kg	⊛	119	70 - 147
NFDHA	ND		2.27	2.37		ug/Kg	⊛	105	63 - 137
PFMBA	ND		2.27	2.76		ug/Kg	⊛	122	75 - 135
PFMPA	ND		2.27	2.71		ug/Kg	⊛	120	58 - 140
PFEESA	ND		2.02	1.71		ug/Kg	⊛	85	75 - 135

Isotope Dilution	MS	MS	Limits
	%Recovery	Qualifier	
13C4 PFBA	81		25 - 150
13C5 PFPeA	63		25 - 150
13C2 PFHxA	77		25 - 150
13C4 PFHpA	81		25 - 150
13C4 PFOA	78		25 - 150
13C5 PFNA	77		25 - 150
13C2 PFDA	72		25 - 150
13C2 PFUnA	70		25 - 150
13C2 PFDoA	65		25 - 150
13C2 PFTeDA	64		25 - 150
13C3 PFBS	67		25 - 150
18O2 PFHxS	75		25 - 150
13C4 PFOS	67		25 - 150
d3-NMeFOSAA	61		25 - 150
d5-NEtFOSAA	60		25 - 150
M2-4:2 FTS	68		25 - 150
M2-6:2 FTS	70		25 - 150
M2-8:2 FTS	63		25 - 150
13C3 HFPO-DA	70		25 - 150

Lab Sample ID: 590-34054-1 MSD

Matrix: Solid

Analysis Batch: 886386

Client Sample ID: Solids #1

Prep Type: Total/NA

Prep Batch: 886208

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						
Perfluorobutanoic acid (PFBA)	ND		2.25	2.27		ug/Kg	⊛	101	76 - 136	3	30
Perfluoropentanoic acid (PFPeA)	ND		2.25	2.68		ug/Kg	⊛	119	74 - 134	5	30
Perfluorohexanoic acid (PFHxA)	ND		2.25	2.34		ug/Kg	⊛	104	71 - 131	6	30
Perfluoroheptanoic acid (PFHpA)	ND		2.25	2.23		ug/Kg	⊛	99	71 - 131	8	30
Perfluorooctanoic acid (PFOA)	ND		2.25	2.34		ug/Kg	⊛	104	72 - 132	2	30
Perfluorononanoic acid (PFNA)	ND		2.25	2.21		ug/Kg	⊛	98	73 - 133	4	30
Perfluorodecanoic acid (PFDA)	ND		2.25	2.29		ug/Kg	⊛	102	72 - 132	0	30
Perfluoroundecanoic acid (PFUnA)	ND		2.25	2.29		ug/Kg	⊛	102	75 - 135	1	30
Perfluorododecanoic acid (PFDoA)	ND		2.25	2.46		ug/Kg	⊛	109	71 - 131	3	30
Perfluorotridecanoic acid (PFTrDA)	ND		2.25	2.29		ug/Kg	⊛	102	71 - 131	2	30

Eurofins Spokane

QC Sample Results

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 590-34054-1 MSD

Matrix: Solid

Analysis Batch: 886386

Client Sample ID: Solids #1

Prep Type: Total/NA

Prep Batch: 886208

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier				Limits		
Perfluorotetradecanoic acid (PFTeA)	ND		2.25	2.26		ug/Kg	☼	100	67 - 127	1	30
Perfluorobutanesulfonic acid (PFBS)	ND		2.00	2.35		ug/Kg	☼	118	69 - 129	13	30
Perfluoropentanesulfonic acid (PFPeS)	ND		2.11	2.77		ug/Kg	☼	131	75 - 135	16	30
Perfluorohexanesulfonic acid (PFHxS)	ND		2.05	1.94		ug/Kg	☼	95	62 - 122	2	30
Perfluoroheptanesulfonic acid (PFHpS)	ND		2.15	2.31		ug/Kg	☼	108	76 - 136	4	30
Perfluorooctanesulfonic acid (PFOS)	ND		2.09	2.08		ug/Kg	☼	100	73 - 133	2	30
NMeFOSAA	ND		2.25	2.35		ug/Kg	☼	105	72 - 132	6	30
NEtFOSAA	ND		2.25	2.12		ug/Kg	☼	94	72 - 132	6	30
4:2 FTS	ND		2.11	1.99		ug/Kg	☼	94	71 - 131	3	30
6:2 FTS	ND		2.14	1.97		ug/Kg	☼	92	73 - 132	8	30
8:2 FTS	ND		2.16	2.33		ug/Kg	☼	108	75 - 135	7	30
9Cl-PF3ONS	ND		2.10	2.14		ug/Kg	☼	102	74 - 134	6	30
HFPO-DA (GenX)	ND		2.25	2.29		ug/Kg	☼	102	72 - 132	5	30
11Cl-PF3OUdS	ND		2.12	2.08		ug/Kg	☼	98	66 - 136	4	30
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	ND		2.13	2.75		ug/Kg	☼	129	70 - 147	8	30
NFDHA	ND		2.25	2.07		ug/Kg	☼	92	63 - 137	13	30
PFMBA	ND		2.25	2.88		ug/Kg	☼	128	75 - 135	4	30
PFMPA	ND		2.25	2.73		ug/Kg	☼	121	58 - 140	0	30
PFEESA	ND		2.01	1.89		ug/Kg	☼	94	75 - 135	10	30

Isotope Dilution	MSD	MSD	Limits
	%Recovery	Qualifier	
13C4 PFBA	113		25 - 150
13C5 PFPeA	82		25 - 150
13C2 PFHxA	111		25 - 150
13C4 PFHpA	108		25 - 150
13C4 PFOA	102		25 - 150
13C5 PFNA	103		25 - 150
13C2 PFDA	93		25 - 150
13C2 PFUnA	96		25 - 150
13C2 PFDaA	83		25 - 150
13C2 PFTeDA	79		25 - 150
13C3 PFBS	78		25 - 150
18O2 PFHxS	99		25 - 150
13C4 PFOS	88		25 - 150
d3-NMeFOSAA	73		25 - 150
d5-NEtFOSAA	74		25 - 150
M2-4:2 FTS	94		25 - 150
M2-6:2 FTS	90		25 - 150
M2-8:2 FTS	77		25 - 150
13C3 HFPO-DA	99		25 - 150

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #1

Lab Sample ID: 590-34054-1

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #1

Lab Sample ID: 590-34054-1

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.27 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 20:14	P1P	EET SAC

Client Sample ID: Solids #2

Lab Sample ID: 590-34054-2

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #2

Lab Sample ID: 590-34054-2

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 91.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.02 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 20:45	P1P	EET SAC

Client Sample ID: Solids #3

Lab Sample ID: 590-34054-3

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #3

Lab Sample ID: 590-34054-3

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.35 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 20:55	P1P	EET SAC

Client Sample ID: Solids #4

Lab Sample ID: 590-34054-4

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Eurofins Spokane

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #4

Lab Sample ID: 590-34054-4

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 94.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.08 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 21:06	P1P	EET SAC

Client Sample ID: Solids #5

Lab Sample ID: 590-34054-5

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #5

Lab Sample ID: 590-34054-5

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 99.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.20 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 21:16	P1P	EET SAC

Client Sample ID: Solids #6

Lab Sample ID: 590-34054-6

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #6

Lab Sample ID: 590-34054-6

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 96.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.13 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 21:26	P1P	EET SAC

Client Sample ID: Solids #7

Lab Sample ID: 590-34054-7

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #7

Lab Sample ID: 590-34054-7

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 97.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.20 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 21:47	P1P	EET SAC

Client Sample ID: Solids #8

Lab Sample ID: 590-34054-8

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #8

Lab Sample ID: 590-34054-8

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 96.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.37 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 21:58	P1P	EET SAC

Client Sample ID: Solids #9

Lab Sample ID: 590-34054-9

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #9

Lab Sample ID: 590-34054-9

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 89.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.42 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 22:08	P1P	EET SAC

Client Sample ID: Solids #10

Lab Sample ID: 590-34054-10

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #10

Lab Sample ID: 590-34054-10

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 86.4

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.08 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 22:18	P1P	EET SAC

Client Sample ID: Solids #11

Lab Sample ID: 590-34054-11

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #11

Lab Sample ID: 590-34054-11

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 85.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.22 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 22:29	P1P	EET SAC

Client Sample ID: Solids #12

Lab Sample ID: 590-34054-12

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Client Sample ID: Solids #12

Lab Sample ID: 590-34054-12

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 98.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.11 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 22:39	P1P	EET SAC

Client Sample ID: Solids #13

Lab Sample ID: 590-34054-13

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	3550C		1			886004	11/10/25 10:33	CFR	EET SAC

Lab Chronicle

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Client Sample ID: Solids #13

Lab Sample ID: 590-34054-13

Date Collected: 11/03/25 00:00

Matrix: Solid

Date Received: 11/03/25 15:20

Percent Solids: 82.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	SHAKE			5.04 g	10.0 mL	886208	11/11/25 04:57	R1T	EET SAC
Total/NA	Analysis	537 (modified)		1	1 mL	1 mL	886386	11/11/25 22:50	P1P	EET SAC

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Accreditation/Certification Summary

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Laboratory: Eurofins Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Alaska	State	CA00044	06-30-26
Alaska (UST)	State	17-020	02-20-27
ANAB	Dept. of Defense ELAP	L2468	01-20-27
ANAB	Dept. of Energy	L2468.01	01-20-27
ANAB	ISO/IEC 17025	L2468.03	01-20-27
Arizona	State	AZ0708	08-11-26
Arkansas DEQ	State	88-0691	05-18-26
California	State	2897	02-01-26
Colorado	State	CA00044	08-31-26
Florida	NELAP	E87570	06-30-26
Georgia	State	4040	01-29-26
Illinois	NELAP	200060	03-31-26
Kansas	NELAP	E-10375	10-31-26
Louisiana	NELAP	01944	06-30-26
Louisiana (All)	NELAP	01944	06-30-26
Maine	State	CA00004	04-14-26
Massachusetts	State	M-CA044	06-30-26
Michigan	State	9947	01-29-26
Minnesota	NELAP	2749448	12-31-25
Nevada	State	CA00044	07-31-26
New Jersey	NELAP	CA005	06-30-26
New York	NELAP	11666	04-01-26
Ohio	State	41252	01-29-26
Oregon	NELAP	4040	01-29-26
Texas	NELAP	T104704399-23-17	05-31-26
US Fish & Wildlife	US Federal Programs	A22139	04-30-26
USDA	US Federal Programs	P330-18-00239	02-28-26
Utah	NELAP	CA000442023-16	02-28-26
Virginia	NELAP	460278	03-14-26
Washington	State	C581	05-05-26
West Virginia (DW)	State	9930C	02-01-26
West Virginia DEP	State	422	03-28-26
Wisconsin	State	998204680	08-31-26
Wyoming	State Program	8TMS-L	01-28-19 *

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: Clean Harbors Environmental Services Inc
Project/Site: Spokane Airport

Job ID: 590-34054-1

Method	Method Description	Protocol	Laboratory
537 (modified)	Fluorinated Alkyl Substances	EPA	EET SAC
3550C	Percent Moisture	SW846	EET SAC
SHAKE	Shake Extraction with Ultrasonic Bath Extraction	SW846	EET SAC

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET SAC = Eurofins Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600



Eurofins Spokane
11922 E 1st Avenue

Chain of Custody Record

eurofins | Environment Testing

Spokane, WA 99206-5302
phone 509.924.9200 fax 509.924.9290

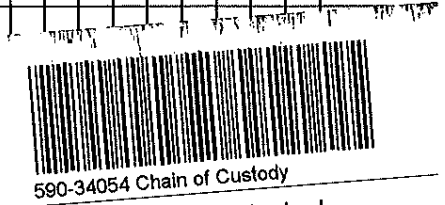
terrell tessa @ cleanharbors.com

Regulatory Program DW NPDES RCRA Other

Eurofins Environment Testing America

Client Contact		Project Manager: Tessa Terrell		Site Contact		Date:		COC No:	
Your Company Name here: Clean Harbors		Email: terrell.tessa@cleanharbors.com		Lab Contact:		Carrier:		_____ of _____ COCs	
Address: 407 N. Thierman RD		Tel/Fax: 509 844 3394		Analysis Turnaround Time		TALS Project #:		Sampler:	
City/State/Zip: Spokane WA 99212		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		TAT If different from Below _____		For Lab Use Only		Walk-in Client:	
(xxx) xxx-xxxx Phone: 509 844 3394		<input type="checkbox"/> 2 weeks		<input checked="" type="checkbox"/> 1 week		Lab Sampling		Job / SDG No	
(xxx) xxx-xxxx FAX		<input type="checkbox"/> 2 days		<input type="checkbox"/> 1 day		Sample Specific Notes:			
Project Name: Spokane Airport		Filtered Sample (Y/N)		Perform MS / MSD (Y/N)					
Site:		PEAS							
P O #									

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Sample Specific Notes
Solids #1	11/3	11:30	G					
Solids 2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12 & 13								



Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6=Other

Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

Non-Hazard Flammable Skin Irritant Poison B Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): Return to Client Disposal by Lab Archive for _____ Months

Special Instructions/QC Requirements & Comments

Custody Seals Intact: Yes No

Custody Seal No. _____ Cooler Temp. (°C): Obs'd. 14.8°C Corr'd: 14.5°C Therm ID No. 11006

Relinquished by: [Signature]	Company: CHES	Date/Time: 11/03 3:20	Received by: [Signature]	Company: EPA Spokane	Date/Time: 11/25 (S20)
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 11/12/2025

Chain of Custody Record



Client Information (Sub Contract Lab)		Lab PM:	Carrier Tracking No(s):	COC No:				
N/A		Arrington, Rande E	N/A	590-12155 1				
Phone: N/A		E-Mail:	State of Origin:	Page:				
N/A		Randee.Arrington@et.eurofins.com	Washington	Page 1 of 2				
Shipping/Receiving		Company:	Job #:	Preservation Codes:				
Eurofins Environment Testing Northern Ca		Eurofins Environment Testing Northern Ca	590-34054-1	-				
Address:		Due Date Requested:	Analysis Requested					
880 Riverside Parkway,		11/10/2025						
City:		TAT Requested (days):						
West Sacramento		N/A						
State Zip:		PO #:						
CA, 95605		N/A						
Phone:		WO #:						
916-373-5600(Tel) 916-372-1059(Fax)		N/A						
Email:		Project #:						
N/A		59000868						
Spokane Airport		SSOW#:						
Site:		N/A						
N/A								
Sample Identification - Client ID (Lab ID)		Field Filtered Sample (Yes or No)	Form MS/MSD (Yes or No)	PFC/DA/Shahe Bath, 14DPFAS, EPA Methods 837 1	Moisture	Total Number of Containers	Special Instructions/Note:	
Solids #1 (590-34054-1)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #2 (590-34054-2)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #3 (590-34054-3)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #4 (590-34054-4)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #5 (590-34054-5)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #6 (590-34054-6)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #7 (590-34054-7)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #8 (590-34054-8)	11/3/25	Pacific	G	Solid	X	X	1	
Solids #9 (590-34054-9)	11/3/25	Pacific	G	Solid	X	X	1	
<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/test/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to Eurofins Environment Testing Northwest, LLC.</p>								
Possible Hazard Identification								
<input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months								
Special Instructions/QC Requirements:								
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)								
Empty Kit Relinquished by _____ Date: _____ Time: _____ Method of Shipment: _____								
Relinquished by _____ Date/Time: 11/14/25 15:48 Company: E-E-S-C								
Relinquished by _____ Date/Time: _____ Company: _____								
Relinquished by _____ Date/Time: _____ Company: _____								
Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Custody Seal No. <u>24</u>								
Cooler Temperature(s) °C and Other Remarks:								



Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler: N/A	Lab PM: Arrington, Randee E	Carrier Tracking No(s): N/A	COC No: 590-12155.2
Client Contact:		Phone: N/A	E-Mail: Randee.Arrington@et.eurofins.com	State of Origin: Washington	Page: Page 2 of 2
Shipping/Receiving		Job #: 590-34054-1			
Company: Eurofins Environment Testing Northern Ca		Preservation Codes:			
Address: 880 Riverside Parkway, West Sacramento, CA, 95605		State Program - Washington			
City: West Sacramento		Analysis Requested:			
State, Zip: CA, 95605		Due Date Requested: 11/10/2025			
Phone: 916-373-5600(Tel) 916-372-1059(Fax)		TAT Requested (days): N/A			
Email: N/A		PO #: N/A			
Project #: 59000868		WO #: N/A			
Spokane Airport		Project Name: Spokane Airport			
Site: N/A		SSOW#: N/A			
Sample Identification - Client ID (Lab ID)		Sample Date			
Solids #10 (590-34054-10)		Sample Time: Pacific		Sample Date: 11/3/25	
Solids #11 (590-34054-11)		Sample Time: Pacific		Sample Date: 11/3/25	
Solids #12 (590-34054-12)		Sample Time: Pacific		Sample Date: 11/3/25	
Solids #13 (590-34054-13)		Sample Time: Pacific		Sample Date: 11/3/25	
Matrix (W=water, S=solid, O=water/oil, BT=Trace, Acqr)		Sample Type (G=Comp, C=grab)		Matrix	
Field Filtered Sample (Yes or No)		Sample Time		Sample Type	
Performance MS/MSD (Yes or No)		Sample Date		Sample Type	
PFC ID/Shahe Bath, 14DPFAs, EPA Methods 537.1 & 633 Lats (29)		Sample Time		Sample Type	
Moisture		Sample Date		Sample Type	
Total Number of Containers		Sample Time		Sample Type	
Special Instructions/Note:		Sample Date		Sample Type	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing Northwest, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/res/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing Northwest, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing Northwest, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing Northwest, LLC.

Possible Hazard Identification
 Unconfirmed
 Deliverable Requested: I, II, III, IV, Other (specify) _____
 Primary Deliverable Rank: 2
 Return To Client
 Disposal By Lab
 Archive For _____ Months
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Empty Kit Relinquished by		Date:	Time:
Relinquished by	Company	Date/Time:	Date/Time:
Relinquished by	Company	Date/Time:	Date/Time:
Relinquished by	Company	Date/Time:	Date/Time:
Custody Seals Intact	Custody Seal No.	Cooler Temperature(s) °C and Other Remarks:	
Yes		74	



Login Sample Receipt Checklist

Client: Clean Harbors Environmental Services Inc

Job Number: 590-34054-1

Login Number: 34054

List Source: Eurofins Spokane

List Number: 1

Creator: Desimone, Carson

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	Received same day of collection; chilling process has begun.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Clean Harbors Environmental Services Inc

Job Number: 590-34054-1

Login Number: 34054

List Number: 2

Creator: Simmons, Jason C

List Source: Eurofins Sacramento

List Creation: 11/05/25 06:06 PM

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	2860452
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.4c
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Solid

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFBA (25-150)	PFPeA (25-150)	PFHxA (25-150)	C4PFHA (25-150)	PFOA (25-150)	PFNA (25-150)	PFDA (25-150)	PFUnA (25-150)
590-34054-1	Solids #1	91	70	82	87	84	84	76	77
590-34054-1 MS	Solids #1	81	63	77	81	78	77	72	70
590-34054-1 MSD	Solids #1	113	82	111	108	102	103	93	96
590-34054-2	Solids #2	100	79	102	100	96	95	87	85
590-34054-3	Solids #3	86	72	87	87	88	83	79	79
590-34054-4	Solids #4	75	60	69	74	76	68	65	68
590-34054-5	Solids #5	89	75	91	89	83	81	78	77
590-34054-6	Solids #6	99	78	98	99	89	91	84	84
590-34054-7	Solids #7	61	62	74	79	70	70	66	65
590-34054-8	Solids #8	71	63	71	78	70	68	63	64
590-34054-9	Solids #9	90	69	89	90	87	85	72	70
590-34054-10	Solids #10	99	78	93	96	91	94	84	79
590-34054-11	Solids #11	76	62	74	73	72	75	68	71
590-34054-12	Solids #12	96	75	89	97	93	91	84	87
590-34054-13	Solids #13	77	59	72	73	69	66	61	56
LCS 320-886208/2-A	Lab Control Sample	109	85	109	103	102	96	92	93
MB 320-886208/1-A	Method Blank	94	75	97	95	94	92	83	86

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	PFDoA (25-150)	PFTDA (25-150)	C3PFBS (25-150)	PFHxS (25-150)	PFOS (25-150)	d3NMFOS (25-150)	d5NEFOS (25-150)	M242FTS (25-150)
590-34054-1	Solids #1	73	66	64	79	70	63	67	77
590-34054-1 MS	Solids #1	65	64	67	75	67	61	60	68
590-34054-1 MSD	Solids #1	83	79	78	99	88	73	74	94
590-34054-2	Solids #2	82	69	75	96	82	74	78	87
590-34054-3	Solids #3	75	68	70	83	76	65	65	87
590-34054-4	Solids #4	66	56	59	69	64	60	63	34
590-34054-5	Solids #5	68	66	68	83	69	60	63	77
590-34054-6	Solids #6	80	70	71	84	79	68	71	90
590-34054-7	Solids #7	60	55	58	67	59	46	49	59
590-34054-8	Solids #8	53	53	60	70	62	50	54	71
590-34054-9	Solids #9	64	62	67	78	68	58	64	69
590-34054-10	Solids #10	73	72	76	93	80	57	65	90
590-34054-11	Solids #11	68	60	61	70	64	54	56	66
590-34054-12	Solids #12	78	67	74	85	76	70	78	85
590-34054-13	Solids #13	51	51	63	72	63	32	36	63
LCS 320-886208/2-A	Lab Control Sample	85	82	87	102	87	89	84	109
MB 320-886208/1-A	Method Blank	81	72	84	95	86	77	79	99

		Percent Isotope Dilution Recovery (Acceptance Limits)		
Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
590-34054-1	Solids #1	70	65	76
590-34054-1 MS	Solids #1	70	63	70
590-34054-1 MSD	Solids #1	90	77	99
590-34054-2	Solids #2	83	74	90
590-34054-3	Solids #3	74	69	76
590-34054-4	Solids #4	61	56	65
590-34054-5	Solids #5	76	64	80
590-34054-6	Solids #6	81	71	84
590-34054-7	Solids #7	64	52	70

Eurofins Spokane

Isotope Dilution Summary

Client: Clean Harbors Environmental Services Inc
 Project/Site: Spokane Airport

Job ID: 590-34054-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)		
		M262FTS (25-150)	M282FTS (25-150)	HFPODA (25-150)
590-34054-8	Solids #8	72	55	66
590-34054-9	Solids #9	66	59	80
590-34054-10	Solids #10	81	76	88
590-34054-11	Solids #11	61	62	68
590-34054-12	Solids #12	80	69	82
590-34054-13	Solids #13	63	46	71
LCS 320-886208/2-A	Lab Control Sample	106	89	91
MB 320-886208/1-A	Method Blank	98	90	83

Surrogate Legend

- PFBA = 13C4 PFBA
- PFPeA = 13C5 PFPeA
- PFHxA = 13C2 PFHxA
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFNA = 13C5 PFNA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFTDA = 13C2 PFTeDA
- C3PFBS = 13C3 PFBS
- PFHxS = 18O2 PFHxS
- PFOS = 13C4 PFOS
- d3NMFOA = d3-NMeFOA
- d5NEFOA = d5-NEtFOA
- M242FTS = M2-4:2 FTS
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- HFPODA = 13C3 HFPO-DA

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX B-2

Manifests

Please print or type.

Generator acknowledges that no material change has occurred either in the characteristics or in the process generating the material.

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number WAD058614496	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 020932073 FLE	
5. Generator's Name and Mailing Address Spokane International Airport 8008 Aviation Ave Spokane, WA 99224			Generator's Site Address (if different than mailing address) SAME			
Generator's Phone: (509) 481-3489 ATTN:Keylin Huddleston						
6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.			U.S. EPA ID Number MAD039322250			
7. Transporter 2 Company Name			U.S. EPA ID Number			
8. Designated Facility Name and Site Address Clean Harbors Arizona LLC 1340 West Lincoln Street Phoenix, AZ 85007			U.S. EPA ID Number AZ0049318009			
Facility's Phone: (602) 258-8155						
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
		No.	Type			
x	1. UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S., (PFAS), 9, PG III	008	DM	03600	P	WPO1 W702
	2.					
	3.					
	4.					
14. Special Handling Instructions and Additional Information 1. CH3086607 ERG#171 8285						
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.						
Generator's/Offeror's Printed/Typed Name Keylin Huddleston			Signature		Month Day Year 12 29 25	
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____						
17. Transporter Acknowledgment of Receipt of Materials						
Transporter 1 Printed/Typed Name Jon Hutton			Signature		Month Day Year 12 29 25	
Transporter 2 Printed/Typed Name			Signature		Month Day Year	
18. Discrepancy						
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection						
18b. Alternate Facility (or Generator) Manifest Reference Number: U.S. EPA ID Number						
Facility's Phone:						
18c. Signature of Alternate Facility (or Generator)					Month Day Year	
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)						
1. H141		2.		3.		4.
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a						
Printed/Typed Name			Signature		Month Day Year	

GENERATOR

INT'L

TRANSPORTER

DESIGNATED FACILITY

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number WAD058614496	2. Page 1 of 1	3. Emergency Response Phone (800) 483-3718	4. Manifest Tracking Number 020932071 FLE
---	---	--------------------------	--	---

5. Generator's Name and Mailing Address Spokane International Airport 8008 Aviation Ave Spokane, WA 99224	Generator's Site Address (if different than mailing address) SAME
Generator's Phone: (509) 481-3489 ATTN:Keylin Huddleston	

6. Transporter 1 Company Name Clean Harbors Environmental Services, Inc.	U.S. EPA ID Number MAD039322250
--	---

7. Transporter 2 Company Name	U.S. EPA ID Number
-------------------------------	--------------------

8. Designated Facility Name and Site Address Clean Harbors Environmental Services, Inc. 2247 South Highway 71 Kimball, NE 68145	U.S. EPA ID Number NE0981723513
Facility's Phone: (308) 235-4012	

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers		11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
		No.	Type				
X	1. UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCES, SOLID, N.O.S., (PFAS), 9, PG III	007	DM	04900	P	WP01	W702
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information 1. CH3086642 ERG#171 7X85	Contract retained by generator confers agency authority on initial transporter to add or substitute additional transporters on generator's behalf for purposes of transportation efficiency, convenience, or safety.
--	--

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name Keylin Huddleston	Signature <i>Keylin Huddleston</i>	Month 12	Day 11	Year 2025
--	---------------------------------------	--------------------	------------------	---------------------

16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.	Port of entry/exit: _____ Date leaving U.S.: _____
--	---

17. Transporter Acknowledgment of Receipt of Materials				
Transporter 1 Printed/Typed Name Jon Nelson	Signature <i>Jon Nelson</i>	Month 12	Day 10	Year 25
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

18. Discrepancy					
18a. Discrepancy Indication Space	<input type="checkbox"/> Quantity	<input type="checkbox"/> Type	<input type="checkbox"/> Residue	<input type="checkbox"/> Partial Rejection	<input type="checkbox"/> Full Rejection
Manifest Reference Number: _____					

18b. Alternate Facility (or Generator) Facility's Phone: _____	U.S. EPA ID Number		
18c. Signature of Alternate Facility (or Generator)			
	Month	Day	Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)			
1. H040	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a				
Printed/Typed Name	Signature	Month	Day	Year

GENERATOR
INT'L
TRANSPORTER
DESIGNATED FACILITY

INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

APPENDIX C

Data Usability Summary and Data Validation Reports



APPENDIX C DATA USABILITY SUMMARY

**INITIAL PFAS INVESTIGATION REPORT
SPOKANE INTERNATIONAL AIRPORT**
Spokane, WA
Facility Site ID: 6332493; Cleanup Site ID: 16774

Prepared for:



Spokane
International Airport

SPOKANE INTERNATIONAL AIRPORT
9000 W. Airport Drive, Suite 204
Spokane, Washington 99224

Prepared by:

GSI ENVIRONMENTAL INC.
1115 West Bay Drive NW, Ste. 202
Olympia, WA 98502
www.gsienv.com

Job No.: 6892
Issued: 13 March 2026

APPENDIX C DATA USABILITY SUMMARY
INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

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 1.4 Data Validation.....4
2.0 REFERENCES5

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- Table C-2. Results for Soil Blanks
- Table C-3. Relative Percent Difference Calculations for Primary and Duplicate Groundwater Sample Pairs
- Table C-4. Relative Percent Difference Calculations for Primary and Duplicate Soil Sample Pairs

ATTACHMENTS

- Attachment C1. GSI Data Validation Summary
- Attachment C2. PFAS Data Validation Reports (Pyron Environmental)

INITIAL PFAS INVESTIGATION REPORT

Spokane International Airport

Spokane, WA

COMMON ACRONYMS

AFFF.....	aqueous film-forming foam
AOA.....	Air Operations Area
Eurofins Sacramento.....	Eurofins
Ecology.....	Washington State Department of Ecology
EO.....	Enforcement order
GSI Environmental.....	GSI Environmental Inc
HDPE.....	High-density polyethylene
IPI.....	Initial PFAS Investigation
MDL.....	Method Detection Limit
MQO.....	Measurement quality objective
µg/kg.....	Micrograms per kilogram
mg/kg.....	Milligrams per kilogram
ng/L.....	Nanograms per liter
PFAS.....	per- and polyfluoroalkyl substances
PFAS CAP.....	Per- and Polyfluoroalkyl Substances Chemical Action Plan
PFHxA.....	perfluorohexanoic acid
PFHxS.....	perfluorohexanesulfonic acid
PFOS.....	perfluorooctane sulfonic acid
PFPeA.....	perfluoropentanoic acid
RPD.....	Relative Percent Difference
SIA.....	Spokane International Airport
SAR.....	Site Assessment Report
TOC.....	Total Organic Carbon
USEPA.....	United States Environmental Protection Agency
6:2 FTS.....	1H,1H,2H,2H-Perfluorooctane sulfonic acid

APPENDIX C DATA USABILITY SUMMARY
INITIAL PFAS INVESTIGATION REPORT
Spokane International Airport
Spokane, WA

1.0 INTRODUCTION

The objective of the Initial PFAS Investigation (IPI) was to provide a preliminary dataset for use in the development of the Remedial Investigation and Feasibility Study (RI/FS) Work Plan for the Spokane International Airport (SIA). The IPI Work Plan was submitted and approved by the Washington State Department of Ecology (Ecology). The investigation focuses on the areas within the Site identified in the Task 1A Site Assessment Report (SAR) as areas of potential or known concern for a release of aqueous film-forming foam (AFFF) associated with federally mandated fire training and testing exercises (GSI Environmental Inc. 2024a; 2024b).¹ Appendix B of the IPI Work Plan outlined the data quality objectives for the investigation and general requirements for data usability. The data collected from this investigation was determined to be usable and in general accordance with the data quality objectives. This section presents the measures and assessment metrics by which data usability was determined for the IPI and a summary of findings.

1.1 Field Blanks and Equipment Blanks

During the IPI, field and equipment blank samples were collected in conjunction with primary soil and groundwater samples. The field blank samples were used to assess potential contamination from field sampling methods. The field blank samples were collected by filling laboratory-provided high-density polyethylene (HDPE) containers with the laboratory-provided per- and polyfluoroalkyl substances (PFAS)-free water in the field sampling area.

The equipment blank samples were used to assess the effectiveness of decontamination methods and potential for cross contamination. These samples were collected by pouring laboratory-supplied (PFAS)-free water over the surface of the decontaminated, reusable sampling equipment and directly into laboratory-provided HDPE sample containers.

The field and equipment blank samples were submitted to Eurofins Sacramento (Eurofins) and analyzed for PFAS using the same analytical method as the primary soil and groundwater samples (United States Environmental Protection Agency [EPA] Method 1633A).

¹ The term "Site" as used in this report refers to the main operational area within the SIA property boundary as shown in Exhibit A of the Order and presented in figures as the "Primary Airport Area." This term is not meant to delineate the facility boundary as defined by WAC 173-340-200, as that spatial designation is the subject of this ongoing investigation.

The measurement quality objective (MQO) for both blanks was no PFAS detections greater than the reporting limit or 1/10 the amount measured in any sample (whichever is greater). Tables C-1 and C-2 provide groundwater and soil analytical results, respectively. The MQO was achieved with the following exceptions:

Field Blank:

- Perfluorooctane sulfonic acid (PFOS) was detected in one field blank sample (FB-01062025) at a concentration of 11 nanograms per liter (ng/L), which exceeds the 1/10th amount measured in any sample collected on 1/06/2025 (GSI Environmental Inc., 2024b). Groundwater samples collected on the same date ranged in concentrations from below the method detection limit of 0.42 ng/L to 14 ng/L.

Equipment Blank:

- PFOS was detected in one equipment blank sample (handwash blank sample; HDW01152025) at a concentration of 2.3 ng/L, which exceeds the 1/10th amount measured in any sample on 1/15/2025. Four soil samples had PFOS detections at concentrations greater than 10x the equipment PFOS detection (JTA-002-0003: 36 µg/kg, JTA-005-0000: 36 µg/kg, JTA-007-0000: 99 µg/kg, and JTA-008-0000: 810 µg/kg); therefore, qualifiers were not assigned.

The PFOS detections were limited to one field blank sample and one equipment blank sample. This result does not indicate widespread field-introduced contamination.

1.2 Field Duplicates

To assess precision of the laboratory for PFAS analysis, duplicate groundwater and soil samples were collected at a frequency of one per ten field samples. The duplicate samples were collected and handled in the same manner as the primary samples and labeled with a unique identifier. These samples were submitted to Eurofins for PFAS analysis using EPA Method 1633.

Field duplicate results were obtained for evaluation of the relative percent difference (RPD) of sample duplicate pairs. The RPD for field duplicate values were calculated as the absolute difference between results of the duplicate pair divided by the mean value of the duplicate pair. Instances where either the primary or duplicate sample result was not detected at a concentration greater than its respective laboratory reporting limit, the method detection limit (MDL) concentration was used for RPD calculation. RPDs were calculated for the following analytes in groundwater and soil samples using the corresponding threshold values:

- PFAS: 30% (soil and groundwater)
- Cations and Anions: 30% (groundwater)
- Alkalinity: 10% (groundwater)
- Total organic carbon (TOC) and pH: 20% (soil)

RPD values were less than the presented relevant threshold values with the following exceptions:

- Groundwater Samples:

- 1H,1H,2H,2H-Perfluorooctane sulfonic acid (6:2 FTS) was detected in the duplicate groundwater sample (LA-MW-10-FD-01062025) at a concentration of 2.5J ng/L. However, 6:2 FTS was not detected in the primary groundwater sample (LA-MW-10-N-01062025). The primary groundwater sample was therefore qualified with a U flag and at the method detection limit value provided by the laboratory (0.85U ng/L). The RPD for the sample pair is 98.5% which exceeds its respective RPD threshold of 30%.
- Alkalinity was detected in the primary groundwater sample (GCF-MW-5-N-01132025) and duplicate groundwater sample (GCF-MW-5-FD-01132025) at concentrations of 20 and 25 mg/l, respectively. The RPD for the sample pair is 22.2%, which exceeds the alkalinity RPD threshold of 10%.
- Soil Samples:
 - The following PFAS were detected in one or more primary and duplicate soil sample pairs, exceeding their respective RPD of 30%:
 - Perfluorohexanesulfonic acid (PFHxS) was detected in the primary sample (JTA-006-N-S001-01162025) and duplicate sample (JTA-006-FD-S001-01162025) at concentrations of 0.22 and 0.47 µg/kg, respectively, with an RPD of 72.5%.
 - PFOS was detected in two primary and duplicate soil sample pairs. Primary sample (CFH-002-N-S001-01242025) and duplicate sample (CFH-002-FD-S001-01242025) had concentrations of 0.28 and 0.38 µg/kg, respectively, with an RPD of 30.3%. Primary sample (JTA-006-N-S001-01162025) and duplicate sample (JTA-006-FD-S001-01162025) had concentrations of 6.9 and 4.8 µg/kg, respectively, with an RPD of 35.9%.
 - Perfluorohexanoic acid (PFHxA) was detected in the primary sample (LTA-003-N-S001-01152025) and duplicate sample (LTA-003-FD-S001-01152025) at concentrations of 1.9 and 1.4 µg/kg, respectively, with an RPD of 30.3%.
 - Perfluoropentanoic acid (PFPeA) was detected in the primary sample (LTA-003-N-S001-01152025) and duplicate sample (LTA-003-FD-S001-01152025) at concentrations of 1.1 and 0.73 µg/kg, respectively, with an RPD of 40.4%.
 - Ninety-five (95) additional primary and field duplicate soil sample pairs had RPD exceedances for various PFAS analytes. In these cases, the primary or duplicate results were below their respective method reporting limits and were considered estimated concentrations qualified with either a “J” or “U” qualifier.

- TOC was detected in the following primary and duplicate soil sample pairs, exceeding its respective RPD of 20%, as follows:
 - Primary sample (JTA-006-N-S001-01162025) and duplicate sample (JTA-006-FD-S001-01162025) were detected at concentrations of 4200 and 3100 mg/kg, respectively, with an RPD of 30.1%.
 - Primary sample (JTA-007-N-S003-01172025) and duplicate sample (JTA-007-FD-S003-01172025) were detected at concentrations of 3900 and 5900 mg/kg, respectively, with an RPD of 40.8%.
 - Primary sample (FIT-004-N-S003-01212025) and duplicate sample (FIT-004-FD-S003-01212025) were detected at concentrations of 3500 and 2200 mg/kg, respectively, with an RPD of 45.6%.
 - Primary sample (LTA-003-N-S001-01152025) and duplicate sample (LTA-003-FD-S001-01152025) were detected at concentrations of 9200 and 15000 mg/kg, respectively, with an RPD of 47.9%.
 - Primary sample (SRA-004A-N-S001-01212025) and duplicate sample (SRA-004A-FD-S001-01212025) were detected at concentrations of 9400 and 3700 mg/kg, respectively, with an RPD of 87%.
- Eleven (11) primary and duplicate soil sample pairs contained RPD exceedances for TOC; however, either the primary or duplicate result was detected at a low estimated concentration and was qualified with a “J” qualifier.

The RPD results are provided in Tables C-3 and C-4 for groundwater and soil samples, respectively.

1.3 Chain of Custody

Chain of Custody (COC) documentation is included in the laboratory reports. Any discrepancies between samples received by the laboratories and those listed on COCs were noted in Case Narratives. Aside from some minor sample nomenclature corrections, two instances of sample identification were inconclusive. Four sample containers were submitted to the laboratory with identical sample identification (FIT-003-N-S003-01212025), contradicting the COC listing of two sample containers each for two unique sample identifiers (FIT-003-N-S003-01212025 and FIT-003-N-S011-01212025). Due to the uncertainty of sample identification, the sample results for FIT-003-N-S003-01212025 were qualified as rejected and were assigned an “R” flag.

1.4 Data Validation

Data validation for non-PFAS compounds was performed by GSI (Attachment C1), while data validation for PFAS compounds was performed by Pyron Environmental, Inc. of Olympia, Washington (Attachment C2).

The data validation process resulted in the rejection of one soil sample as detailed in Section 1.3.

Two soil samples (JTA-002-N-S025 and JTA-005-N-S025) were analyzed outside of the 90-day sample hold time under EPA Method 1633. The laboratory performed initial extractions within the hold time; however, the extracts were inadvertently discarded prior to analysis. This required the two samples to be re-extracted. Raw results for these two samples are flagged 'H' in the laboratory report, indicating that the sample was prepped or analyzed beyond the method-specified holding time. No issues with the results from these samples were noted during validation, so the results are being maintained as part of the IPI dataset.

Overall, the data generated during this investigation are considered valid and usable for the investigation's intended purpose. The data qualifiers are included in Tables C-1 through C-4.

2.0 REFERENCES

GSI Environmental Inc. 2024a. *Final Site Assessment Report, Spokane International Airport*. Site Assessment Cleanup ID No. 16774. Spokane International Airport.

GSI Environmental Inc. 2024b. *Initial PFAS Investigation Work Plan*.

**APPENDIX C DATA USABILITY SUMMARY
INITIAL PFAS INVESTIGATION REPORT**

Spokane International Airport
Spokane, WA

TABLES

Table C-1	Results for Groundwater Blanks
Table C-2	Results for Soil Blanks
Table C-3	Relative Percent Difference Calculations for Primary and Duplicate Groundwater Sample Pairs
Table C-4	Relative Percent Difference Calculations for Primary and Duplicate Soil Sample Pairs

**APPENDIX C DATA USABILITY SUMMARY
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Spokane International Airport
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ATTACHMENTS

Attachment C1	GSI Data Validation Summary
Attachment C2	PFAS Data Validation Reports (Pyron Environmental)

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INITIAL PFAS INVESTIGATION REPORT**

Spokane International Airport
Spokane, WA

ATTACHMENT C1

GSI Data Validation Summary



ATTACHMENT C1 GSI DATA VALIDATION SUMMARY

SPOKANE INTERNATIONAL AIRPORT
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ATTACHMENT C1 – GSI DATA VALIDATION SUMMARY
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TABLE

Table 1. Sample Identification and Analytical Methods

Table 2. Sample Qualification

ATTACHMENT C1 - GSI DATA VALIDATION SUMMARY
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(Laboratory Job IDs: J22824 through 29158)

OVERVIEW

GSI Environmental Inc. (GSI) reviewed the field methods and analytical laboratory reports associated with groundwater and soil samples collected in support of the Initial PFAS Investigation (IPI) for the Spokane International Airport (SIA) Site¹ located in Spokane, Washington.

GSI reviewed the laboratory analytical reports to evaluate data usability of the analytical results in general accordance with the following guidance documents and in adherence to project objectives:

- *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review (USEPA 2020)*
- *Initial PFAS Investigation Work Plan and Sampling and Analysis Plan and Quality Assurance Project Plan (SAP/QAPP; GSI Environmental Inc. 2024)*

Eurofins was accredited with the National Environmental Laboratory Accreditation Program (NELAP) and certified by the Washington State Department of Ecology for the matrices, analytes, and methods of analysis requested on the chain-of-custody (COC) documentation at the time of this project.

Intended Use of Data

Groundwater and soil samples were collected to evaluate and document subsurface conditions at the Site using the following analyses:

- United States Environmental Protection Agency (EPA) Method 300.0: Determination of Inorganic Anions in Drinking Water by Ion Chromatography
- EPA Method 200.7: Determination of Metals and Trace Elements in Water and Wastes by Inductively Coupled Plasma–Atomic Emission Spectrometry (ICP-AES)
- Standard Methods (SM) 2320B: Total and Fixed Solids in Water, Wastewater, and Sludge
- EPA Method 9060A (SW-846): Total Organic Carbon (TOC) in Water by High-Temperature Combustion
- EPA Method 9045D (SW-846): Soil and Waste pH
- EPA Method 1633A (1633): Percent Moisture

¹ The term “Site” as used in this report refers to the main operational area within the SIA property boundary as shown in Exhibit A of the Order and presented in figures as the “Primary Airport Area.” This term is not meant to define the facility boundary as defined by WAC 173-340-200, as that spatial designation is the subject of this ongoing investigation.

The Sampling and Analysis Plan (SAP) and Quality Assurance Project Plan (QAPP), laboratory analytical reports, and field documentation were reviewed and considered when applying data qualifiers:

- Data Quality (Usability) Assessment procedure: Section 14.0 of the SAP/QAPP
- Laboratory analytical reports: Quality control (QC) analyses summarized in the Chronicle, QC Sample Results, and the Case Narrative (CN) sections
- Laboratory analytical report review checklists and associated exception reports
- Field notes: Low flow Sampling Logs, Soil Boring Logs, and COC Records

1.0 INTRODUCTION

A total of two hundred seventy-three (273) samples, consisting of fifty-two (52) groundwater samples and two hundred twenty-one (221) soil samples, were submitted to Eurofins for analysis. Table 1 includes the sample identifications cross-referenced to laboratory identifications. The total number of samples do not include field quality assurance/quality control (QA/QC) samples (e.g., field blanks or equipment blanks).

2.0 DATA REVIEW / VALIDATION RESULTS

Chain of Custody

The laboratory samples were evaluated for agreement with the submitted chain of custody forms (COCs). The following minor differences were noted between the sample IDs presented on the COCs and those within the laboratory report:

- Two samples were labeled with client sample identification (ID) SWN-MW-5-N-01102025 and were included in the COC for J28921-1. The two samples had separate sample times of 07:35 and 08:05, with the intention of the later sample being a duplicate sample. Each was assigned a separate laboratory sample ID. The second, later, duplicate sample was also assigned client sample ID SWN-MW-5-FD-01102025.
- Sample ID GCF-MW-N-10-01172025 was incorrectly labeled “N-10” in the COC for laboratory report J29041. This was corrected to “10-N” by the laboratory (GCF-MW-10-N-01172025).
- RTA samples in the COC for laboratory reports J29051-1, J29051-3, and J29051-4 were incorrectly labeled samples “RT” instead of “RTA.” This was corrected by the laboratory.
- Sample ID FIT-001-N-S003-01212025 incorrectly noted the collection time as 4850 instead of 0850 in the COC for laboratory job J29098. This was corrected by the laboratory.
- Four samples were submitted to the laboratory with sample ID FIT-003-N-S003-01212025, while the COC included two samples for FIT-003-N-S003-01212025 and two samples for FIT-003-N-S011-01212025. The laboratory was instructed to hold FIT-003-N-S003-01212025; however, the laboratory performed the analysis. Due to the uncertainty of sample identification, the sample results were qualified as rejected and assigned an “R” flag.
- Sample ID FMB-004-S006-01232025 was missing “N-” in the COC for laboratory job J29140. This error was corrected by the laboratory (FMB-004-N-S006-01232025).

- A sample was not submitted to the laboratory corresponding to sample ID CFH-005-N-S006-01242025 in laboratory report number J29158; therefore, this sample was not analyzed. A review of boring logs indicated that this sample was not collected and mistakenly included in the COC.

Percent Moisture

Percent moisture is a physical parameter that is not included in the National Functional Guidelines for Inorganic Data Review. Percent moisture values between 80% and 96% were reported for seven samples (JTA-002-N-S020-01152025, JTA-002-N-S025-01152025, JTA-005-N-S017-01162025, JTA-005-N-S025-01162025, JTA-008-N-S017-01172025, JTA-009-N-S020-01172025, and JTA-009-N-S030-01172025). These results are generally reasonable for wet soils. The dry-weight–corrected inorganic results were reviewed and are considered usable.

Preservation and Holding Times

The primary and duplicate groundwater and soil samples were received by the laboratory intact and in the appropriate containers. Container temperatures were within the acceptable temperature range at the time of delivery to the laboratory.

Exhibit 1 presents laboratory report numbers for TOC samples that were initially placed on hold with the laboratory pending the results of an adjacent soil sample. The samples were removed from hold after the hold time of 28 days, analyzed for TOC, and assigned a qualifier (J-) indicating that the result may be biased low.

Exhibit 1. Holding Time Exceedances for TOC using USEPA Method 9045D

Laboratory Report Number				
J29042-3	J29042-4	J29042-5	J29042-6	J29042-7
J29043-3	J29043-4	J29043-5	J29043-6	J29043-7
J29051-3	J29051-4	J29051-5	J29051-6	J29051-7
J29066-3	J29098-3	J29098-4	J29098-5	J29123-3
J29123-4	J29123-5	J29140-2	J29140-3	J29140-4
J29158-3	J29158-4	J29158-5		

The TOC qualifiers for sample results related to the laboratory reports listed in Exhibit 1 are presented in Table 2.

Dilutions

The following findings were noted in the Case Narrative or during review of the laboratory data packages.

- Sample dilution was performed on sample SWN-MW-5-N-01102025 (lab report 28921-1) for chloride analysis, resulting in elevated reporting limits (RLs).
- Sample dilution was performed on sample GDF-MW-10R-N-01142025 (lab report J28985-1) for anion analysis, resulting in elevated RLs for chloride, nitrate, and sulfate.

No qualifiers were added per this evaluation.

Laboratory Blanks

Method (Laboratory) Blanks (MB)

In accordance with the QAPP, one (1) laboratory method blank is required for every twenty (20) samples (GSI Environmental Inc. 2024). The frequency of method blank analysis for this project fulfilled the QAPP requirements. However, method blank detections were noted for multiple method blanks, as shown in Exhibit 2:

Exhibit 2. Method Blank Detections

Lab Report	Analytical Method	Sample Batch	Analyte	MB Conc. <RL?	Qualification
J28824-1	SM 2320B ¹	51765	Alkalinity	Yes	U at RL (if result < RL) J+ (if result >= RL)
J28851-1	SM 2320B ¹	51765	Alkalinity	Yes	
J28892-1	SM 2320B ¹	51765	Alkalinity	Yes	
J28921-1	SM 2320B ¹	51868	Alkalinity	Yes	
J28940-1	SM 2320B ¹	51977	Alkalinity	Yes	
J28985-1	SM 2320B ¹	51977	Alkalinity	Yes	
J29005-1	200.7	prep 51972/ analytical 51975	Potassium	Yes	
J29005-1	SM 2320B ¹	52006	Alkalinity	Yes	
J29041-1	200.7	prep 51972/ analytical 51975	Potassium	Yes	
J29041-1	SM 2320B ¹	52006	Alkalinity	Yes	
J29042-5	9060A	489566	TOC	Yes	
J29042-6	9060A	490715	TOC	Yes	
J29042-7	9060A	495154	TOC	Yes	
J29043-4	9060A	489566	TOC	Yes	
J29043-5	9060A	489566	TOC	Yes	
J29043-6	9060A	490715	TOC	Yes	
J29043-7	9060A	495154	TOC	Yes	
J29051-4	9060A	489566	TOC	Yes	
J29051-5	9060A	489638	TOC	Yes	
J29051-6	9060A	490715	TOC	Yes	
J29051-7	9060A	495154	TOC	Yes	
J29098-5	9060A	489638	TOC	Yes	
J29123-5	9060A	489638	TOC	Yes	
J29140-2	9060A	489638	TOC	Yes	
J29140-4	9060A	489566	TOC	Yes	
J29158-4	9060A	489566	TOC	Yes	
J29158-5	9060A	489638	TOC	Yes	

¹ The EPA National Functional Guidelines for Inorganic Superfund Methods Data Review does not provide guidance specific to Method SM 2320B. Therefore, professional judgement was used to determine qualification.

Internal Standard and Surrogate Recoveries

Internal standard and surrogate recoveries exceedances were not identified within the Case Narrative or during GSI’s evaluation of the laboratory data packages. Therefore, data qualifiers were not assigned.

Laboratory Control Samples

The frequency of laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) samples performed during this investigation was in accordance with the requirements specified the QAPP (i.e., one (1) LCS for every twenty (20) project samples). Data quality issues were not identified within the Case Narrative or during GSI’s evaluation of the laboratory data packages for LCS and LCSD samples; therefore, no qualifiers were added.

Matrix Spike/Matrix Spike Duplicates and Laboratory Duplicates

Project-specific matrix spike (MS) and matrix spike duplicate (MSD) samples were not required or collected during this investigation. Therefore, the laboratory performed analysis of spiked MS/MSD sample pairs on non-project-related samples as required by their internal QC process. MS/MSD results that were outside the acceptable surrogate recovery ranges are provided in Exhibit 3.

Exhibit 3. MS/MSD Qualifiers

Lab Report	Method	Primary Sample	Analyte	Recoveries Outside Limits	Laboratory Qualifier
J28921-1	EPA 300.0	SWN-MW-5-N-01102025	Chloride	MS/MSD	J-
J29140-1	EPA 6010D	GCF-MW-5D-N-01132025	Calcium	MS/MSD	J-
J29043-6	EPA 9060A	JTA-005-N-S017-01162025	TOC	MSD	J+
J29158-1	EPA 9060A	CFH-003-N-S003-01242025	TOC	MS	J+

Because the LCS/LCSD recoveries were all within the acceptable limits for these samples and the MS/MSD analyses were performed on non-project-related samples, data qualifiers were not assigned.

Field Duplicates (Field Precision)

As specified in the QAPP, field duplicate samples were required at a frequency of one (1) field duplicate sample for every ten (10) groundwater or soil samples. Seven (7) field duplicate groundwater samples and thirty (30) field duplicate soil samples were collected and analyzed, meeting the frequency requirements of the QAPP. A summary of the field duplicate samples collected and analyzed during the sampling event are provided in Exhibit 4.

Exhibit 4. List of Primary and Field Duplicate Samples

Lab Report	Matrix	Primary Sample ID	Duplicate Sample ID
J28824-1	Water	LA-MW-10-N-01062025	LA-MW-10-FD-01062025
J28851-1	Water	EA-MW-13A-N-01072025	EA-MW-13A-FD-01072025
J28892-1	Water	EA-MW-5A-N-01082025	EA-MW-5A-FD-01082025
J28921-1	Water	SWN-MW-7-N-01092025	SWN-MW-7-FD-01092025
J28985-1	Water	GCF-MW-12A-N-01142025	GCF-MW-12A-FD-01142025
J29005-1	Water	GDF-GR-2-N-01152025	GDF-GR-2-FD-01152025
J29041-1	Water	GCF-MW-8-N-01172025	GCF-MW-8-FD-01172025
J29042-1	Soil	LTA-003-N-S001-01152025	LTA-003-FD-S001-01152025
	Soil	LTA-002-N-S003-01152025	LTA-002-FD-S003-01152025
J29043-1	Soil	JTA-004-N-S003-01162025	JTA-004-FD-S003-01162025
	Soil	JTA-005-N-S003-01162025	JTA-005-FD-S003-01162025
	Soil	JTA-006-N-S001-01162025	JTA-006-FD-S001-01162025
J29051-1	Soil	JTA-007-N-S003-01172025	JTA-007-FD-S003-01172025
	Soil	JTA-009-N-S003-01172025	JTA-009-FD-S003-01172025
	Soil	RTA-003-N-S003-01172025	RTA-003-FD-S003-01172025
J29066-1	Soil	PDW-001-N-S003-01202025	PDW-001-FD-S003-01202025
J29098-1	Soil	FIT-001-N-S003-01212025	FIT-001-FD-S003-01212025
	Soil	FIT-004-N-S003-01212025	FIT-004-FD-S003-01212025
	Soil	SRA-004A-N-S001-01212025	SRA-004A-FD-S001-01212025
J29123-1	Soil	SRA-010-N-S003-01222025	SRA-010-FD-S003-01222025
	Soil	SRA-008-N-S001-01222025	SRA-008-FD-S001-01222025
	Soil	HFH-001-N-S003-01222025	HFH-001-FD-S003-01222025
J29140-1	Soil	HFH-004-N-S003-01232025	HFH-004-FD-S003-01232025
	Soil	HFH-004-N-S010-01232025	HFH-004-FD-S010-01232025
	Soil	HFH-005-N-S001-01232025	HFH-005-FD-S001-01232025
	Soil	HFH-003-N-S006-01232025	HFH-003-FD-S006-01232025
	Soil	HFH-002-N-S001-01232025	HFH-002-FD-S001-01232025
	Soil	FMB-004-N-S010-01232025	FMB-004-FD-S010-01232025
	Soil	FMB-004-N-S003-01232025	FMB-004-FD-S003-01232025
J29158-1	Soil	FMB-001-N-S001-01272025	FMB-001-FD-S001-01272025
	Soil	FMB-003-N-S001-01242025	FMB-003-FD-S001-01242025
	Soil	FMB-003-N-S010-01242025	FMB-003-FD-S010-01242025
	Soil	CFH-007-N-S001-01242025	CFH-007-FD-S001-01242025
	Soil	CFH-005-N-S003-01242025	CFH-005-FD-S003-01242025
	Soil	CFH-004-N-S010-01242025	CFH-004-FD-S010-01242025
	Soil	CFH-003-N-S009-01242025	CFH-003-FD-S009-01242025
	Soil	CFH-002-N-S001-01242025	CFH-002-FD-S001-01242025

TOC was the only analyte with RPD exceedances above its respective threshold of 20%. The RPDs for the remaining analytes were within their respective threshold ranges. The RPD exceedances for TOC are provided in Exhibit 5 and qualifiers are presented in Table 2.

Exhibit 4. Field Duplicate Analysis with TOC RPD > 20%

Lab Report	Primary Sample ID	Duplicate Sample ID	Method	RPD	Qualifier
J29042-1	LTA-003-N-S001-01152025	LTA-003-FD-S001-01152025	EPA 9060A (TOC)	47.93%	Qualify both J (primary < 5x RL, absolute diff. > RL)
J29043-1	JTA-006-N-S001-01162025	JTA-006-FD-S001-01162025	EPA 9060A (TOC)	30.14%	None ¹
J29051-1	JTA-007-N-S003-01172025	JTA-007-FD-S003-01172025	EPA 9060A (TOC)	40.82%	None ¹
	JTA-009-N-S003-01172025	JTA-009-FD-S003-01172025	EPA 9060A (TOC)	23.26%	None ¹
J29098-1	FIT-001-N-S003-01212025	FIT-001-FD-S003-01212025	EPA 9060A (TOC)	32.26%	None ¹
	FIT-004-N-S003-01212025	FIT-004-FD-S003-01212025	EPA 9060A (TOC)	45.61%	None ¹
	SRA-004A-N-S001-01212025	SRA-004A-FD-S001-01212025	EPA 9060A (TOC)	87.02%	Qualify both J (both < 5x RL, absolute diff. > RL)
J29123-1	HFH-001-N-S003-01222025	HFH-001-FD-S003-01222025	EPA 9060A (TOC)	23.38%	None ¹
J29140-1	HFH-004-N-S003-01232025	HFH-004-FD-S003-01232025	EPA 9060A (TOC)	35.29%	None ¹
	HFH-004-N-S010-01232025	HFH-004-FD-S010-01232025	EPA 9060A (TOC)	152.94%	None ¹
	HFH-005-N-S001-01232025	HFH-005-FD-S001-01232025	EPA 9060A (TOC)	32.73%	None ¹
	HFH-003-N-S006-01232025	HFH-003-FD-S006-01232025	EPA 9060A (TOC)	38.71%	None ¹
J29158-1	FMB-001-N-S001-01272025	FMB-001-FD-S001-01272025	EPA 9060A (TOC)	32.26%	None ¹
	CFH-007-N-S001-01242025	CFH-007-FD-S001-01242025	EPA 9060A (TOC)	56.60%	None ¹
	CFH-005-N-S003-01242025	CFH-005-FD-S003-01242025	EPA 9060A (TOC)	68.04%	None ¹
	CFH-004-N-S010-01242025	CFH-004-FD-S010-01242025	EPA 9060A (TOC)	64.79%	None ¹

¹ No qualification because results are < 5x the reporting limit (RL) and the absolute difference is less than or equal to the RL.

Laboratory Duplicates

RPD exceedances in laboratory primary and duplicate samples are provided in Exhibit 6 and qualifiers are presented in Table 2.

Exhibit 5. Laboratory Duplicate Analysis with RPD>20%

Lab Report	Method	Primary Sample	Analyte	RPD	Qualification
J29043-6	9060A	JTA-005-N-S017-01162025	TOC	55%	J
J29051-1	9060A	JTA-007-N-S001-01172025	TOC	22%	J
J29051-3	9060A	JTA-007-N-S000-01172025	TOC	38%	J
J29051-5	9060A	JTA-007-N-S013-01172025	TOC	29%	J
J29051-7	9060A	JTA-009-N-S030-01172025	TOC	22%	J
J29123-1	9060A	SRA-009-N-S000-01222025	TOC	25%	J
J29140-1	9060A	HFH-004-FD-S003-01232025	TOC	33%	J
J29158-1	9060A	FMB-001-N-S003-01272025	TOC	61%	J

Field Procedures

Sample collection and documentation was performed in accordance with GSI's Standard Operating Procedures (SOPs), which were provided in the IPI Work Plan.

3.0 SUMMARY

A total of 235 qualifiers were applied. Reported concentrations of pH and TOC in sample FIT-003-N-S003-01212025 were rejected due to uncertainty regarding the depth of the sample analyzed. Overall, the data generated during this investigation are considered valid and usable for the intended purpose of this investigation.

4.0 REFERENCES

GSI Environmental Inc. 2024. *Initial PFAS Investigation Work Plan*.

USEPA. 2020. *National Functional Guidelines for Inorganic Superfund Methods Data Review*.
Office of Superfund Remediation and Technology Innovation.
https://www.epa.gov/sites/default/files/2021-03/documents/nfg_for_inorganic_superfund_methods_data_review_november_2020.pdf

TABLES

Table 1. Sample Identification and Analytical Methods

Table 2. Sample Qualification

Table 1. Sample Identification and Analytical Methods

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
LA-MW-8-N-01062025	1/6/2025	10:05	N	Water	590-28824-1					X	X	X	X
LA-MW-10-N-01062025	1/6/2025	11:15	N	Water	590-28824-2					X	X	X	X
LA-MW-10-FD-01062025	1/6/2025	11:30	FD	Water	590-28824-3					X	X	X	X
LA-MW-9-N-01062025	1/6/2025	12:40	N	Water	590-28824-4					X	X	X	X
LA-MW-12-N-01062025	1/6/2025	13:30	N	Water	590-28824-5					X	X	X	X
LA-MW-11-N-01062025	1/6/2025	14:20	N	Water	590-28824-6					X	X	X	X
LA-MW-17-N-01062025	1/6/2025	10:15	N	Water	590-28824-7					X	X	X	X
W-MW-15-N-01072025	1/7/2025	9:35	N	Water	590-28851-1					X	X	X	X
EA-MW-14A-N-01072025	1/7/2025	12:35	N	Water	590-28851-2					X	X	X	X
EA-MW-14B-N-01072025	1/7/2025	13:40	N	Water	590-28851-3					X	X	X	X
EA-MW-13A-N-01072025	1/7/2025	14:50	N	Water	590-28851-4					X	X	X	X
EA-MW-13A-FD-01072025	1/7/2025	15:20	FD	Water	590-28851-5					X	X	X	X
EA-MW-13B-N-01082025	1/8/2025	10:35	N	Water	590-28892-1					X	X	X	X
EA-MW-8A-N-01082025	1/8/2025	12:00	N	Water	590-28892-2					X	X	X	X
EA-MW-5A-N-01082025	1/8/2025	13:15	N	Water	590-28892-3					X	X	X	X
EA-MW-5A-FD-01082025	1/8/2025	13:30	FD	Water	590-28892-4					X	X	X	X
SWN-MW-321-N-01082025	1/8/2025	14:55	N	Water	590-28892-5					X	X	X	X
SWN-MW-7-N-01092025	1/9/2025	9:45	N	Water	590-28921-1					X	X	X	X
SWN-MW-7-FD-01092025	1/9/2025	10:15	FD	Water	590-28921-2					X	X	X	X
SWN-MW-4-N-01092025	1/9/2025	11:15	N	Water	590-28921-3					X	X	X	X
SWN-MW-6-N-01092025	1/9/2025	12:15	N	Water	590-28921-4					X	X	X	X
SWN-MW-14-N-01092025	1/9/2025	13:10	N	Water	590-28921-5					X	X	X	X
SWN-MW-13-N-01092025	1/9/2025	14:10	N	Water	590-28921-6					X	X	X	X

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
FGF-MW-18-N-01092025	1/9/2025	15:30	N	Water	590-28921-7					X	X	X	X
SWN-MW-A-N-01092025	1/9/2025	10:20	N	Water	590-28921-8					X	X	X	X
SWN-MW-3-N-01092025	1/9/2025	12:25	N	Water	590-28921-9					X	X	X	X
SWN-MW-1-N-01092025	1/9/2025	14:30	N	Water	590-28921-10					X	X	X	X
SWN-MW-2-N-01092025	1/9/2025	15:40	N	Water	590-28921-11					X	X	X	X
SWN-MW-5-N-01102025	9/10/2025	7:35	N	Water	590-28921-12					X	X	X	X
PD-MW-1A-N-01102025	9/10/2025	8:20	N	Water	590-28921-13					X	X	X	X
GDF-GR-8-N-01102025	9/10/2025	10:15	N	Water	590-28921-14					X	X	X	X
GDF-GR-7D-N-01102025	9/10/2025	11:05	N	Water	590-28921-15					X	X	X	X
GDF-GR-7S-N-01102025	9/10/2025	10:05	N	Water	590-28921-16					X	X	X	X
SWN-MW-5-N-01102025	9/10/2025	8:05	N	Water	590-28921-17					X	X	X	X
GCF-MW-5D-N-01132025	1/13/2025	12:40	N	Water	590-28940-1					X	X	X	X
EA-MW-5B-N-01132025	1/13/2025	15:30	N	Water	590-28940-2					X	X	X	X
GCF-MW-13-N-01132025	1/13/2025	10:40	N	Water	590-28940-3					X	X	X	X
GCF-MW-5-N-01132025	1/13/2025	11:40	N	Water	590-28940-4					X	X	X	X
GCF-MW-5-FD-01132025	1/13/2025	12:10	N	Water	590-28940-5					X	X	X	X
GCF-MW-11-N-01132025	1/13/2025	13:05	N	Water	590-28940-6					X	X	X	X
GCF-MW-7-N-01132025	1/13/2025	14:45	N	Water	590-28940-7					X	X	X	X
GCF-MW-11B-N-01132025	1/13/2025	16:10	N	Water	590-28940-8					X	X	X	X
EA-MW-8B-N-01142025	1/14/2025	11:50	N	Water	590-28985-1					X	X	X	X
GDF-GR-5-N-01142025	1/14/2025	14:05	N	Water	590-28985-2					X	X	X	X
GCF-MW-11A-N-01142025	1/14/2025	10:35	N	Water	590-28985-3					X	X	X	X
GCF-MW-12A-N-01142025	1/14/2025	11:55	N	Water	590-28985-4					X	X	X	X
GCF-MW-12A-FD-01142025	1/14/2025	12:25	FD	Water	590-28985-5					X	X	X	X
GCF-MW-12B-N-01142025	1/14/2025	13:15	N	Water	590-28985-6					X	X	X	X
GDF-MW-10A-N-01142025	1/14/2025	14:30	N	Water	590-28985-7					X	X	X	X



Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
GDF-MW-10R-N-01142025	1/14/2025	15:15	N	Water	590-28985-8					X	X	X	X
GDF-GR-2-N-01152025	1/15/2025	9:45	N	Water	590-29005-1					X	X	X	X
GDF-GR-2-FD-01152025	1/15/2025	9:55	FD	Water	590-29005-2					X	X	X	X
GDF-GR-3-N-01152025	1/15/2025	9:05	N	Water	590-29005-3					X	X	X	X
GDF-GR-4-N-01152025	1/15/2025	10:45	N	Water	590-29005-4					X	X	X	X
GCF-MW-8-N-01172025	1/17/2025	8:55	N	Water	590-29041-1					X	X	X	X
GCF-MW-8-FD-01172025	1/17/2025	9:25	FD	Water	590-29041-2					X	X	X	X
EAMW-7B-N-01172025	1/17/2025	9:10	N	Water	590-29041-3					X	X	X	X
EAMW-7A-N-01172025	1/17/2025	10:40	N	Water	590-29041-4					X	X	X	X
GCF-MW-10-N-01172025	1/17/2025	10:45	N	Water	590-29041-5					X	X	X	X
LTA-001-N-S001-01152025	1/15/2025	8:10	N	Soil	590-29042-2	X	X	X					
LTA-001-N-S003-01152025	1/15/2025	8:15	N	Soil	590-29042-3	X	X	X					
LTA-002-N-S001-01152025	1/15/2025	9:25	N	Soil	590-29042-9	X	X	X					
LTA-002-N-S003-01152025	1/15/2025	9:30	N	Soil	590-29042-10	X	X	X					
LTA-003-N-S001-01152025	1/15/2025	10:05	N	Soil	590-29042-14	X	X	X					
LTA-003-N-S003-01152025	1/15/2025	10:10	N	Soil	590-29042-15	X	X	X					
LTA-003-FD-S001-01152025	1/15/2025	10:30	FD	Soil	590-29042-20	X	X	X					
JTA-001-N-S001-01152025	1/15/2025	15:05	N	Soil	590-29042-22	X	X	X					
JTA-001-N-S003-01152025	1/15/2025	15:10	N	Soil	590-29042-23	X	X	X					
JTA-002-N-S001-01152025	1/15/2025	16:00	N	Soil	590-29042-31	X	X	X					
JTA-002-N-S003-01152025	1/15/2025	16:05	N	Soil	590-29042-32	X	X	X					
JTA-002-FD-S003-01152025	1/15/2025	16:35	FD	Soil	590-29042-33	X	X	X					
LTA-001-N-S000-01152025	1/15/2025	8:05	N	Soil	590-29042-1	X	X	X					
LTA-002-N-S000-01152025	1/15/2025	9:20	N	Soil	590-29042-8	X	X	X					
LTA-002-N-S006-01152025	1/15/2025	9:35	N	Soil	590-29042-11	X	X	X					
LTA-003-N-S000-01152025	1/15/2025	10:00	N	Soil	590-29042-13	X	X	X					



Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
JTA-001-N-S000-01152025	1/15/2025	15:00	N	Soil	590-29042-21	X	X	X					
JTA-002-N-S000-01152025	1/15/2025	15:55	N	Soil	590-29042-30	X	X	X					
JTA-002-N-S006-01152025	1/15/2025	16:10	N	Soil	590-29042-34	X	X	X					
JTA-002-N-S010-01152025	1/15/2025	16:15	N	Soil	590-29042-35	X	X	X					
JTA-002-N-S015-01152025	1/15/2025	16:00	N	Soil	590-29042-36	X	X	X					
JTA-002-N-S020-01152025	1/15/2025	16:25	N	Soil	590-29042-37	X	X	X					
JTA-002-N-S025-01152025	1/15/2025	16:28	N	Soil	590-29042-38	X	X	X					
LTA-001-N-S006-01152025	1/15/2025	8:20	N	Soil					X				
LTA-001-N-S010-01152025	1/15/2025	8:25	N	Soil					X				
LTA-001-N-S012-01152025	1/15/2025	8:30	N	Soil					X				
LTA-001-FD-S012-01152025	1/15/2025	9:00	FD	Soil					X				
LTA-002-N-S010-01152025	1/15/2025	9:40	N	Soil					X				
LTA-003-N-S006-01152025	1/15/2025	10:15	N	Soil					X				
LTA-003-N-S010-01152025	1/15/2025	10:20	N	Soil					X				
LTA-003-N-S015-01152025	1/15/2025	10:25	N	Soil					X				
LTA-003-N-S017-01152025	1/15/2025	10:30	N	Soil					X				
JTA-001-N-S006-01152025	1/15/2025	15:15	N	Soil					X				
JTA-001-N-S010-01152025	1/15/2025	15:20	N	Soil					X				
JTA-001-N-S015-01152025	1/15/2025	15:25	N	Soil					X				
JTA-001-N-S020-01152025	1/15/2025	15:30	N	Soil					X				
JTA-001-N-S023-01152025	1/15/2025	15:35	N	Soil					X				
JTA-001-FD-S006-01152025	1/15/2025	15:45	N	Soil					X				
JTA-002-N-S030-01152025	1/15/2025	16:30	N	Soil					X				
JTA-003-N-S001-01162025	1/16/2025	9:35	N	Soil	590-29043-4	X	X	X					
JTA-003-N-S003-01162025	1/16/2025	9:40	N	Soil	590-29043-5	X	X	X					
JTA-004-N-S001-01162025	1/16/2025	10:45	N	Soil	590-29043-12	X	X	X					



Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
JTA-004-N-S003-01162025	1/16/2025	10:50	N	Soil	590-29043-13	X	X	X					
JTA-004-FD-S003-01162025	1/16/2025	10:55	FD	Soil	590-29043-14	X	X	X					
JTA-005-N-S001-01162025	1/16/2025	13:30	N	Soil	590-29043-21	X	X	X					
JTA-005-N-S003-01162025	1/16/2025	13:35	N	Soil	590-29043-22	X	X	X					
JTA-005-FD-S003-01162025	1/16/2025	14:05	FD	Soil	590-29043-23	X	X	X					
JTA-006-N-S001-01162025	1/16/2025	15:00	N	Soil	590-29043-30	X	X	X					
JTA-006-FD-S001-01162025	1/16/2025	15:30	FD	Soil	590-29043-31	X	X	X					
JTA-006-N-S003-01162025	1/16/2025	15:05	N	Soil	590-29043-32	X	X	X					
JTA-003-N-S000-01162025	1/16/2025	9:30	N	Soil	590-29043-3	X	X	X					
JTA-003-N-S006-01162025	1/16/2025	9:45	N	Soil	590-29043-6	X	X	X					
JTA-004-N-S000-01162025	1/16/2025	10:40	N	Soil	590-29043-11	X	X	X					
JTA-004-N-S006-01162025	1/16/2025	11:00	N	Soil	590-29043-15	X	X	X					
JTA-005-N-S000-01162025	1/16/2025	13:25	N	Soil	590-29043-20	X	X	X					
JTA-005-N-S006-01162025	1/16/2025	13:40	N	Soil	590-29043-24	X	X	X					
JTA-006-N-S000-01162025	1/16/2025	14:55	N	Soil	590-29043-29	X	X	X					
JTA-006-N-S006-01162025	1/16/2025	15:10	N	Soil	590-29043-33	X	X	X					
JTA-003-N-S010-01162025	1/16/2025	9:50	N	Soil	590-29043-7	X	X	X					
JTA-004-N-S010-01162025	1/16/2025	11:05	N	Soil	590-29043-16	X	X	X					
JTA-005-N-S010-01162025	1/16/2025	13:45	N	Soil	590-29043-25	X	X	X					
JTA-006-N-S010-01162025	1/16/2025	15:15	N	Soil	590-29043-34	X	X	X					
JTA-005-N-S015-01162025	1/16/2025	13:50	N	Soil	590-29043-26	X	X	X					
JTA-005-N-S017-01162025	1/16/2025	14:25	N	Soil	590-29043-27	X	X	X					
JTA-005-N-S025-01162025	1/16/2025	14:30	N	Soil	590-29043-28	X	X	X					
JTA-002-N-S040-01162025	1/16/2025	8:30	N	Soil					X				
JTA-002-N-S042-01162025	1/16/2025	8:35	N	Soil					X				
JTA-003-N-S015-01162025	1/16/2025	9:55	N	Soil					X				



Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
JTA-003-N-S020-01162025	1/16/2025	10:00	N	Soil					X				
JTA-003-N-S030-01162025	1/16/2025	10:05	N	Soil					X				
JTA-004-N-S015-01162025	1/16/2025	11:10	N	Soil					X				
JTA-004-N-S020-01162025	1/16/2025	11:15	N	Soil					X				
JTA-004-N-S030-01162025	1/16/2025	11:20	N	Soil					X				
JTA-006-N-S013-01162025	1/16/2025	15:20	N	Soil					X				
JTA-006-N-S021-01162025	1/16/2025	15:25	N	Soil					X				
JTA-006-N-S028-01162025	1/16/2025	15:30	N	Soil					X				
JTA-007-N-S001-01172025	1/17/2025	9:55	N	Soil	590-29051-2	X	X	X					
JTA-007-N-S003-01172025	1/17/2025	10:00	N	Soil	590-29051-3	X	X	X					
JTA-007-FD-S003-01172025	1/17/2025	10:30	FD	Soil	590-29051-4	X	X	X					
JTA-008-N-S001-01172025	1/17/2025	11:00	N	Soil	590-29051-9	X	X	X					
JTA-008-N-S003-01172025	1/17/2025	11:05	N	Soil	590-29051-10	X	X	X					
JTA-009-N-S001-01172025	1/17/2025	11:45	N	Soil	590-29051-16	X	X	X					
JTA-009-N-S003-01172025	1/17/2025	11:50	N	Soil	590-29051-17	X	X	X					
JTA-009-FD-S003-01172025	1/17/2025	12:20	FD	Soil	590-29051-18	X	X	X					
RTA-003-N-S001-01172025	1/17/2025	14:10	N	Soil	590-29051-25	X	X	X					
RTA-003-N-S003-01172025	1/17/2025	14:15	N	Soil	590-29051-26	X	X	X					
RTA-003-FD-S003-01172025	1/17/2025	14:20	FD	Soil	590-29051-27	X	X	X					
JTA-007-N-S000-01172025	1/17/2025	9:50	N	Soil	590-29051-1	X	X	X					
JTA-007-N-S006-01172025	1/17/2025	10:05	N	Soil	590-29051-5	X	X	X					
JTA-008-N-S000-01172025	1/17/2025	10:55	N	Soil	590-29051-8	X	X	X					
JTA-008-N-S006-01172025	1/17/2025	11:10	N	Soil	590-29051-11	X	X	X					
JTA-009-N-S000-01172025	1/17/2025	11:40	N	Soil	590-29051-15	X	X	X					
JTA-009-N-S006-01172025	1/17/2025	11:55	N	Soil	590-29051-19	X	X	X					
RT-003-N-S000-01172025	1/17/2025	14:05	N	Soil	590-29051-24	X	X	X					

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
RT-003-N-S006-01172025	1/17/2025	14:25	N	Soil	590-29051-28	X	X	X					
JTA-007-N-S010-01172025	1/17/2025	10:10	N	Soil	590-29051-6	X	X	X					
JTA-008-N-S010-01172025	1/17/2025	11:15	N	Soil	590-29051-12	X	X	X					
JTA-009-N-S000-01172025	1/17/2025	12:00	N	Soil	590-29051-20	X	X	X					
RT-003-N-S010-01172025	1/17/2025	14:30	N	Soil	590-29051-29	X	X	X					
JTA-007-N-S013-01172025	1/17/2025	10:35	N	Soil	590-29051-7	X	X	X					
JTA-008-N-S015-01172025	1/17/2025	11:20	N	Soil	590-29051-13	X	X	X					
JTA-009-N-S015-01172025	1/17/2025	12:05	N	Soil	590-29051-21	X	X	X					
JTA-008-N-S017-01172025	1/17/2025	11:30	N	Soil	590-29051-14	X	X	X					
JTA-009-N-S020-01172025	1/17/2025	12:10	N	Soil	590-29051-22	X	X	X					
JTA-009-N-S030-01172025	1/17/2025	12:15	N	Soil	590-29051-23	X	X	X					
RT-003-N-S015-01172025	1/17/2025	14:35	N	Soil									
RT-003-N-S020-01172025	1/17/2025	14:40	N	Soil									
RT-003-N-S030-01172025	1/17/2025	14:45	N	Soil									
RTA-002-N-S001-01202025	1/20/2025	8:37	N	Soil	590-29066-2	X	X	X					
RTA-002-N-S003-01202025	1/20/2025	8:49	N	Soil	590-29066-3	X	X	X					
RTA-001-N-S001-01202025	1/20/2025	11:05	N	Soil	590-29066-8	X	X	X					
RTA-001-N-S003-01202025	1/20/2025	11:10	N	Soil	590-29066-9	X	X	X					
PDW-002-N-S010-01202025	1/20/2025	14:15	N	Soil	590-29066-15	X	X	X					
PDW-002-N-S010-01202025	1/20/2025	14:25	N	Soil	590-29066-16	X	X	X					
PDW-001-N-S001-01202025	1/20/2025	16:25	N	Soil	590-29066-24	X	X	X					
PDW-001-N-S003-01202025	1/20/2025	16:35	N	Soil	590-29066-25	X	X	X					
PDW-001-FD-S003-01202025	1/20/2025	16:40	FD	Soil	590-29066-26	X	X	X					
RTA-002-N-S000-01202025	1/20/2025	8:25	N	Soil	590-29066-1	X	X	X					
RTA-002-N-S006-01202025	1/20/2025	9:01	N	Soil	590-29066-4	X	X	X					
PDW-002-N-S000-01202025	1/20/2025	14:10	N	Soil	590-29066-14	X	X	X					



Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
PDW-002-N-S006-01202025	1/20/2025	14:30	N	Soil	590-29066-17	X	X	X					
PDW-001-N-S006-01202025	1/20/2025	16:45	N	Soil	590-29066-27	X	X	X					
RTA-002-N-S010-01202025	1/20/2025	9:08	N	Soil					X				
RTA-002-N-S015-01202025	1/20/2025	9:23	N	Soil					X				
RTA-001-N-S000-01202025	1/20/2025	10:53	N	Soil					X				
RTA-001-N-S006-01202025	1/20/2025	11:25	N	Soil					X				
RTA-001-N-S010-01202025	1/20/2025	11:31	N	Soil					X				
RTA-001-FD-S010-01202025	1/20/2025	11:40	FD	Soil					X				
RTA-001-N-S012-01202025	1/20/2025	12:00	N	Soil					X				
PDW-002-N-S010-01202025	1/20/2025	14:40	N	Soil					X				
PDW-002-N-S015-01202025	1/20/2025	14:45	N	Soil					X				
PDW-002-N-S020-01202025	1/20/2025	14:50	N	Soil					X				
PDW-002-N-S025-01202025	1/20/2025	14:55	N	Soil					X				
PDW-002-N-S029-01202025	1/20/2025	15:00	N	Soil					X				
PDW-001-N-S000-01202025	1/20/2025	16:20	N	Soil					X				
PDW-001-N-S010-01202025	1/20/2025	16:50	N	Soil					X				
PDW-001-N-S015-01202025	1/20/2025	16:55	N	Soil					X				
PDW-001-N-S020-01202025	1/20/2025	17:00	N	Soil					X				
PDW-001-N-S025-01202025	1/20/2025	17:05	N	Soil					X				
PDW-001-N-S030-01202025	1/20/2025	17:10	N	Soil					X				
PDW-001-N-S034-01202025	1/20/2025	17:15	N	Soil					X				
FIT-002-N-S001-01212025	1/21/2025	7:30	N	Soil	590-29098-2	X	X	X					
FIT-002-N-S003-01212025	1/21/2025	7:35	N	Soil	590-29098-3	X	X	X					
FIT-001-N-S001-01212025	1/21/2025	8:45	N	Soil	590-29098-8	X	X	X					
FIT-001-N-S003-01212025	1/21/2025	8:50	N	Soil	590-29098-9	X	X	X					
FIT-001-FD-S003-01212025	1/21/2025	9:20	FD	Soil	590-29098-10	X	X	X					

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
FIT-003-N-S001-01212025	1/21/2025	9:40	N	Soil	590-29098-13	X	X	X					
FIT-003-N-S003-01212025	1/21/2025	9:45	N	Soil	590-29098-14	X	X	X					
FIT-004-N-S001-01212025	1/21/2025	11:05	N	Soil	590-29098-23	X	X	X					
FIT-004-N-S003-01212025	1/21/2025	11:10	N	Soil	590-29098-24	X	X	X					
FIT-004-FD-S003-01212025	1/21/2025	11:40	FD	Soil	590-29098-25	X	X	X					
SRA-003-N-S001-01212025	1/21/2025	13:05	N	Soil	590-29098-31	X	X	X					
SRA-003-N-S003-01212025	1/21/2025	13:10	N	Soil	590-29098-32	X	X	X					
SRA-004A-N-S001-01212025	1/21/2025	14:05	N	Soil	590-29098-37	X	X	X					
SRA-004A-FD-S001-01212025	1/21/2025	14:35	FD	Soil	590-29098-38	X	X	X					
SRA-004A-N-S003-01212025	1/21/2025	14:10	N	Soil	590-29098-39	X	X	X					
SRA-006-N-S001-01212025	1/21/2025	15:45	N	Soil	590-29098-45	X	X	X					
FIT-002-N-S000-01212025	1/21/2025	7:25	N	Soil	590-29098-1	X	X	X					
FIT-002-N-S006-01212025	1/21/2025	7:40	N	Soil	590-29098-4	X	X	X					
FIT-001-N-S000-01212025	1/21/2025	8:40	N	Soil	590-29098-7	X	X	X					
FIT-001-N-S005-01212025	1/21/2025	8:55	N	Soil	590-29098-11	X	X	X					
FIT-003-N-S000-01212025	1/21/2025	9:35	N	Soil	590-29098-12	X	X	X					
FIT-007-N-S000-01212025	1/21/2025	10:10	N	Soil	590-29098-18	X	X	X					
FIT-008-N-S000-01212025	1/21/2025	10:30	N	Soil	590-29098-19	X	X	X					
FIT-006-N-S000-01212025	1/21/2025	11:11	N	Soil	590-29098-20	X	X	X					
FIT-005-N-S000-01212025	1/21/2025	11:06	N	Soil	590-29098-21	X	X	X					
FIT-004-N-S000-01212025	1/21/2025	11:00	N	Soil	590-29098-22	X	X	X					
SRA-003-N-S000-01212025	1/21/2025	13:00	N	Soil	590-29098-30	X	X	X					
SRA-003-N-S006-01212025	1/21/2025	13:15	N	Soil	590-29098-33	X	X	X					
SRA-004A-N-S000-01212025	1/21/2025	14:00	N	Soil	590-29098-36	X	X	X					
SRA-004A-N-S006-01212025	1/21/2025	14:15	N	Soil	590-29098-40	X	X	X					
SRA-004B-N-S000-01212025	1/21/2025	14:50	N	Soil	590-29098-41	X	X	X					

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
SRA-007A-N-S006-01212025	1/21/2025	15:05	N	Soil	590-29098-42	X	X	X					
SRA-007B-N-S000-01212025	1/21/2025	15:15	N	Soil	590-29098-43	X	X	X					
SRA-006-N-S000-01212025	1/21/2025	15:40	N	Soil	590-29098-44	X	X	X					
FIT-002-N-S010-01212025	1/21/2025	7:45	N	Soil	590-29098-5	X	X	X					
SRA-003-N-S010-01212025	1/21/2025	13:20	N	Soil	590-29098-34	X	X	X					
SRA-006-N-S006-01212025	1/21/2025	15:50	N	Soil	590-29098-46	X	X	X					
FIT-002-N-S015-01212025	1/21/2025	7:50	N	Soil	590-29098-6	X	X	X					
SRA-003-N-S012-01212025	1/21/2025	13:25	N	Soil	590-29098-35	X	X	X					
FIT-003-N-S006-01212025	1/21/2025	9:50	N	Soil									
FIT-003-N-S010-01212025	1/21/2025	9:55	N	Soil									
FIT-003-N-S011-01212025	1/21/2025	10:00	N	Soil									
FIT-004-N-S006-01212025	1/21/2025	11:15	N	Soil									
FIT-004-N-S010-01212025	1/21/2025	11:20	N	Soil									
FIT-004-N-S015-01212025	1/21/2025	11:25	N	Soil									
FIT-004-N-S016-01212025	1/21/2025	11:30	N	Soil									
SRA-005-N-S001-01222025	1/22/2025	7:50	N	Soil	590-29123-2	X	X	X					
SRA-005-N-S003-01222025	1/22/2025	7:55	N	Soil	590-29123-3	X	X	X					
SRA-009-N-S000-01222025	1/22/2025	8:45	N	Soil	590-29123-9	X	X	X					
SRA-010-N-S001-01222025	1/22/2025	9:15	N	Soil	590-29123-11	X	X	X					
SRA-010-N-S003-01222025	1/22/2025	9:20	N	Soil	590-29123-12	X	X	X					
SRA-010-FD-S003-01222025	1/22/2025	9:50	FD	Soil	590-29123-13	X	X	X					
SRA-011-N-S001-01222025	1/22/2025	10:15	N	Soil	590-29123-18	X	X	X					
SRA-011-N-S003-01222025	1/22/2025	10:20	N	Soil	590-29123-19	X	X	X					
SRA-008-N-S001-01222025	1/22/2025	11:20	N	Soil	590-29123-24	X	X	X					
SRA-008-FD-S001-01222025	1/22/2025	11:50	FD	Soil	590-29123-25	X	X	X					
SRA-008-N-S003-01222025	1/22/2025	11:25	N	Soil	590-29123-26	X	X	X					

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
SRA-001-N-S001-01222025	1/22/2025	13:05	N	Soil	590-29123-28	X	X	X					
SRA-001-N-S003-01222025	1/22/2025	13:10	N	Soil	590-29123-29	X	X	X					
HFH-001-N-S001-01222025	1/22/2025	14:50	N	Soil	590-29123-32	X	X	X					
HFH-001-N-S003-01222025	1/22/2025	14:55	N	Soil	590-29123-33	X	X	X					
HFH-001-FD-S003-01222025	1/22/2025	15:25	FD	Soil	590-29123-34	X	X	X					
SRA-002-N-S000-01222025	1/22/2025	11:45	N	Soil	590-29123-36	X	X	X					
TRP-001-N-S000-01222025	1/22/2025	12:35	N	Soil	590-29123-37	X	X	X					
TRP-002-N-S000-01222025	1/22/2025	12:55	N	Soil	590-29123-38	X	X	X					
HFH-006-N-S000-01222025	1/22/2025	15:05	N	Soil	590-29123-39	X	X	X					
SRA-005-N-S000-01222025	1/22/2025	7:45	N	Soil	590-29123-1	X	X	X					
SRA-010-N-S000-01222025	1/22/2025	9:10	N	Soil	590-29123-10	X	X	X					
SRA-010-N-S006-01222025	1/22/2025	9:25	N	Soil	590-29123-14	X	X	X					
SRA-011-N-S000-01222025	1/22/2025	10:10	N	Soil	590-29123-17	X	X	X					
SRA-011-N-S006-01222025	1/22/2025	10:25	N	Soil	590-29123-20	X	X	X					
SRA-008-N-S000-01222025	1/22/2025	11:15	N	Soil	590-29123-23	X	X	X					
SRA-001-N-S000-01222025	1/22/2025	13:00	N	Soil	590-29123-27	X	X	X					
SRA-001-N-S006-01222025	1/22/2025	13:15	N	Soil	590-29123-30	X	X	X					
HFH-001-N-S000-01222025	1/22/2025	14:45	N	Soil	590-29123-31	X	X	X					
HFH-001-N-S006-01222025	1/22/2025	15:00	N	Soil	590-29123-35	X	X	X					
SRA-010-N-S010-01222025	1/22/2025	9:30	N	Soil	590-29123-15	X	X	X					
SRA-011-N-S010-01222025	1/22/2025	10:30	N	Soil	590-29123-21	X	X	X					
SRA-011-N-S014-01222025	1/22/2025	10:35	N	Soil	590-29123-22	X	X	X					
SRA-005-N-S006-01222025	1/22/2025	8:00	N	Soil					X				
SRA-005-N-S010-01222025	1/22/2025	8:05	N	Soil					X				
SRA-005-N-S015-01222025	1/22/2025	8:10	N	Soil					X				
SRA-005-N-S017-01222025	1/22/2025	8:15	N	Soil					X				



Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
SRA-005-FD-S017-01222025	1/22/2025	8:20	FD	Soil					X				
SRA-010-N-S015-01222025	1/22/2025	9:35	N	Soil					X				
HFH-004-N-S001-01232025	1/23/2025	10:25	N	Soil	590-29140-2	X	X	X					
HFH-004-N-S003-01232025	1/23/2025	10:30	N	Soil	590-29140-3	X	X	X					
HFH-004-FD-S003-01232025	1/23/2025	11:00	FD	Soil	590-29140-4	X	X	X					
HFH-004-N-S010-01232025	1/23/2025	10:40	N	Soil	590-29140-6	X	X	X					
HFH-004-FD-S010-01232025	1/23/2025	11:10	FD	Soil	590-29140-7	X	X	X					
HFH-005-N-S001-01232025	1/23/2025	11:20	N	Soil	590-29140-9	X	X	X					
HFH-005-FD-S001-01232025	1/23/2025	11:50	FD	Soil	590-29140-10	X	X	X					
HFH-005-N-S003-01232025	1/23/2025	11:25	N	Soil	590-29140-11	X	X	X					
HFH-003-N-S001-01232025	1/23/2025	12:25	N	Soil	590-29140-15	X	X	X					
HFH-003-N-S003-01232025	1/23/2025	12:30	N	Soil	590-29140-16	X	X	X					
HFH-003-N-S006-01232025	1/23/2025	12:35	N	Soil	590-29140-17	X	X	X					
HFH-003-FD-S006-01232025	1/23/2025	13:05	FD	Soil	590-29140-18	X	X	X					
HFH-002-N-S001-01232025	1/23/2025	13:15	N	Soil	590-29140-22	X	X	X					
HFH-002-FD-S001-01232025	1/23/2025	13:45	FD	Soil	590-29140-23	X	X	X					
HFH-002-N-S003-01232025	1/23/2025	13:20	N	Soil	590-29140-24	X	X	X					
FMB-004-N-S001-01232025	1/23/2025	15:55	N	Soil	590-29140-29	X	X	X					
FMB-004-N-S003-01232025	1/23/2025	16:00	N	Soil	590-29140-30	X	X	X					
FMB-004-N-S010-01232025	1/23/2025	16:10	N	Soil	590-29140-32	X	X	X					
FMB-004-FD-S010-01232025	1/23/2025	16:40	FD	Soil	590-29140-33	X	X	X					
FMB-004-FD-S003-01232025	1/23/2025	16:30	FD	Soil	590-29140-34	X	X	X					
HFH-002-N-S012-01232025	1/23/2025	13:35	N	Soil	590-29140-27	X	X	X					
HFH-004-N-S0005-01232025	1/23/2025	10:20	N	Soil	590-29140-1	X	X	X					
HFH-004-N-S006-01232025	1/23/2025	10:35	N	Soil	590-29140-5	X	X	X					
HFH-005-N-S0005-01232025	1/23/2025	11:15	N	Soil	590-29140-8	X	X	X					

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
HFH-005-N-S006-01232025	1/23/2025	11:30	N	Soil	590-29140-12	X	X	X					
HFH-003-N-S0005-01232025	1/23/2025	12:20	N	Soil	590-29140-14	X	X	X					
HFH-003-N-S010-01232025	1/23/2025	12:40	N	Soil	590-29140-19	X	X	X					
HFH-002-N-S0005-01232025	1/23/2025	13:10	N	Soil	590-29140-21	X	X	X					
HFH-002-N-S006-01232025	1/23/2025	13:25	N	Soil	590-29140-25	X	X	X					
FMB-004-N-S0005-01232025	1/23/2025	15:50	N	Soil	590-29140-28	X	X	X					
FMB-004-S006-01232025	1/23/2025	16:05	N	Soil	590-29140-31	X	X	X					
HFH-005-N-S010-01232025	1/23/2025	11:35	N	Soil	590-29140-13	X	X	X					
HFH-003-N-S012-01232025	1/23/2025	12:45	N	Soil	590-29140-20	X	X	X					
HFH-002-N-S010-01232025	1/23/2025	13:30	N	Soil	590-29140-26	X	X	X					
FMB-001-N-S001-01272025	1/27/2025	9:50	N	Soil	590-29158-2	X	X	X					
FMB-001-FD-S001-01272025	1/27/2025	10:20	FD	Soil	590-29158-3	X	X	X					
FMB-001-N-S003-01272025	1/27/2025	9:55	N	Soil	590-29158-4	X	X	X					
FMB-003-N-S001-01242025	1/24/2025	8:05	N	Soil	590-29158-8	X	X	X					
FMB-003-FD-S001-01242025	1/24/2025	8:35	FD	Soil	590-29158-9	X	X	X					
FMB-003-N-S003-01242025	1/24/2025	8:10	N	Soil	590-29158-10	X	X	X					
FMB-003-N-S010-01242025	1/24/2025	8:20	N	Soil	590-29158-12	X	X	X					
FMB-003-FD-S010-01242025	1/24/2025	8:50	FD	Soil	590-29158-13	X	X	X					
FMB-002-N-S001-01242025	1/24/2025	9:05	N	Soil	590-29158-16	X	X	X					
FMB-002-N-S003-01242025	1/24/2025	9:10	N	Soil	590-29158-17	X	X	X					
CFH-007-N-S001-01242025	1/24/2025	11:05	N	Soil	590-29158-22	X	X	X					
CFH-007-FD-S001-01242025	1/24/2025	11:35	FD	Soil	590-29158-23	X	X	X					
CFH-007-N-S003-01242025	1/24/2025	11:10	N	Soil	590-29158-24	X	X	X					
CFH-006-N-S001-01242025	1/24/2025	11:50	N	Soil	590-29158-26	X	X	X					
CFH-005-N-S001-01242025	1/24/2025	12:05	N	Soil	590-29158-28	X	X	X					

Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
CFH-005-N-S003-01242025	1/24/2025	12:10	N	Soil	590-29158-29	X	X	X					
CFH-005-FD-S003-01242025	1/24/2025	12:40	FD	Soil	590-29158-30	X	X	X					
CFH-004-N-S001-01242025	1/24/2025	13:05	N	Soil	590-29158-33	X	X	X					
CFH-004-N-S003-01242025	1/24/2025	13:10	N	Soil	590-29158-34	X	X	X					
CFH-004-N-S010-01242025	1/24/2025	13:20	N	Soil	590-29158-36	X	X	X					
CFH-004-FD-S010-01242025	1/24/2025	13:50	FD	Soil	590-29158-37	X	X	X					
CFH-003-N-S001-01242025	1/24/2025	14:20	N	Soil	590-29158-40	X	X	X					
CFH-003-N-S003-01242025	1/24/2025	14:25	N	Soil	590-29158-41	X	X	X					
CFH-003-N-S009-01242025	1/24/2025	14:35	N	Soil	590-29158-43	X	X	X					
CFH-003-FD-S009-01242025	1/24/2025	15:05	FD	Soil	590-29158-44	X	X	X					
CFH-002-N-S001-01242025	1/24/2025	15:05	N	Soil	590-29158-46	X	X	X					
CFH-002-FD-S001-01242025	1/24/2025	15:35	FD	Soil	590-29158-47	X	X	X					
CFH-002-N-S003-01242025	1/24/2025	15:10	N	Soil	590-29158-48	X	X	X					
CFH-001-N-S001-01242025	1/24/2025	15:50	N	Soil	590-29158-53	X	X	X					
CFH-001-N-S003-01242025	1/24/2025	15:55	N	Soil	590-29158-54	X	X	X					
CFH-006-N-S003-01242025	1/24/2025	11:55	N	Soil	590-29158-58	X	X	X					
FMB-001-N-S0005-01272025	1/27/2025	9:45	N	Soil	590-29158-1	X	X	X					
FMB-001-N-S005-01272025	1/27/2025	10:05	N	Soil	590-29158-6	X	X	X					
FMB-003-N-S0005-01242025	1/24/2025	8:00	N	Soil	590-29158-7	X	X	X					
FMB-003-N-S006-01242025	1/24/2025	8:15	N	Soil	590-29158-11	X	X	X					
FMB-003-N-S015-01242025	1/24/2025	8:25	N	Soil	590-29158-14	X	X	X					
FMB-002-N-S0005-01242025	1/24/2025	9:00	N	Soil	590-29158-15	X	X	X					
FMB-002-N-S006-01242025	1/24/2025	9:15	N	Soil	590-29158-18	X	X	X					
CFH-007-N-S000-01242025	1/24/2025	11:00	N	Soil	590-29158-21	X	X	X					
CFH-006-N-S000-01242025	1/24/2025	11:45	N	Soil	590-29158-25	X	X	X					
CFH-005-N-S000-01242025	1/24/2025	12:00	N	Soil	590-29158-27	X	X	X					



Sample ID	Sample Date	Sample Time	Sample Type	Matrix	Laboratory ID	TOC (EPA 9060A)	pH (SW-846 9045D)	Moisture Content	HOLD	Cations (EPA 200.7)	Anions (EPA 300.0)	Bromide (EPA 300.0)	Alkalinity (SM 2320B)
CFH-004-N-S000-01242025	1/24/2025	13:00	N	Soil	590-29158-32	X	X	X					
CFH-004-N-S006-01242025	1/24/2025	13:15	N	Soil	590-29158-35	X	X	X					
CFH-004-N-S015-01242025	1/24/2025	13:25	N	Soil	590-29158-38	X	X	X					
CFH-003-N-S000-01242025	1/24/2025	14:15	N	Soil	590-29158-39	X	X	X					
CFH-003-N-S006-01242025	1/24/2025	14:30	N	Soil	590-29158-42	X	X	X					
CFH-002-N-S000-01242025	1/24/2025	15:00	N	Soil	590-29158-45	X	X	X					
CFH-001-N-S000-01242025	1/24/2025	15:45	N	Soil	590-29158-52	X	X	X					
CFH-001-N-S006-01242025	1/24/2025	16:00	N	Soil	590-29158-55	X	X	X					
FMB-001-N-S006-01272025	1/27/2025	10:00	N	Soil	590-29158-5	X	X	X					
FMB-002-N-S010-01242025	1/24/2025	9:20	N	Soil	590-29158-19	X	X	X					
CFH-001-N-S010-01242025	1/24/2025	16:05	N	Soil	590-29158-56	X	X	X					
FMB-002-N-S013-01242025	1/24/2025	9:25	N	Soil	590-29158-20	X	X	X					
CFH-005-N-S006-01242025	1/24/2025	12:15	N	Soil					X				
CFH-002-N-S006-01242025	1/24/2025	15:15	N	Soil					X				
CFH-002-N-S010-01242025	1/24/2025	15:20	N	Soil					X				
CFH-002-N-S012-01242025	1/24/2025	15:25	N	Soil					X				
CFH-001-N-S013-01242025	1/24/2025	16:10	N	Soil					X				

Table 2. Sample Qualification

Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J28824-1	LA-MW-10-N-01062025	1/6/2025	Water	590-28824-2	Alkalinity	J+	MB	
J28824-1	LA-MW-10-FD-01062025	1/6/2025	Water	590-28824-3	Alkalinity	J+	MB	
J28824-1	LA-MW-11-N-01062025	1/6/2025	Water	590-28824-6	Alkalinity	J+	MB	
J28824-1	LA-MW-12-N-01062025	1/6/2025	Water	590-28824-5	Alkalinity	J+	MB	
J28824-1	LA-MW-17-N-01062025	1/6/2025	Water	590-28824-7	Alkalinity	J+	MB	
J28824-1	LA-MW-8-N-01062025	1/6/2025	Water	590-28824-1	Alkalinity	J+	MB	
J28824-1	LA-MW-9-N-01062025	1/6/2025	Water	590-28824-4	Alkalinity	J+	MB	
J28851-1	EA-MW-13A-N-01072025	1/7/2025	Water	590-28851-4	Alkalinity	J+	MB	
J28851-1	EA-MW-13A-FD-01072025	1/7/2025	Water	590-28851-5	Alkalinity	J+	MB	
J28851-1	EA-MW-14A-N-01072025	1/7/2025	Water	590-28851-2	Alkalinity	J+	MB	
J28851-1	EA-MW-14B-N-01072025	1/7/2025	Water	590-28851-3	Alkalinity	J+	MB	
J28851-1	W-MW-15-N-01072025	1/7/2025	Water	590-28851-1	Alkalinity	J+	MB	
J28892-1	EA-MW-13B-N-01082025	1/8/2025	Water	590-28892-1	Alkalinity	J+	MB	
J28892-1	EA-MW-5A-N-01082025	1/8/2025	Water	590-28892-3	Alkalinity	J+	MB	
J28892-1	EA-MW-5A-FD-01082025	1/8/2025	Water	590-28892-4	Alkalinity	J+	MB	
J28892-1	EA-MW-8A-N-01082025	1/8/2025	Water	590-28892-2	Alkalinity	J+	MB	
J28892-1	SWN-MW-321-N-01082025	1/8/2025	Water	590-28892-5	Alkalinity	J+	MB	
J28921-1	FGF-MW-18-N-01092025	1/9/2025	Water	590-28921-7	Alkalinity	J+	MB	
J28921-1	GDF-GR-7D-N-01102025	9/10/2025	Water	590-28921-15	Alkalinity	J+	MB	
J28921-1	GDF-GR-7S-N-01102025	9/10/2025	Water	590-28921-16	Alkalinity	J+	MB	
J28921-1	GDF-GR-8-N-01102025	9/10/2025	Water	590-28921-14	Alkalinity	J+	MB	
J28921-1	PD-MW-1A-N-01102025	9/10/2025	Water	590-28921-13	Alkalinity	J+	MB	
J28921-1	SWN-MW-13-N-01092025	1/9/2025	Water	590-28921-6	Alkalinity	J+	MB	
J28921-1	SWN-MW-14-N-01092025	1/9/2025	Water	590-28921-5	Alkalinity	J+	MB	
J28921-1	SWN-MW-1-N-01092025	1/9/2025	Water	590-28921-10	Alkalinity	J+	MB	
J28921-1	SWN-MW-2-N-01092025	1/9/2025	Water	590-28921-11	Alkalinity	J+	MB	
J28921-1	SWN-MW-3-N-01092025	1/9/2025	Water	590-28921-9	Alkalinity	J+	MB	
J28921-1	SWN-MW-4-N-01092025	1/9/2025	Water	590-28921-3	Alkalinity	J+	MB	
J28921-1	SWN-MW-5-N-01102025	9/10/2025	Water	590-28921-12	Alkalinity	J+	MB	
J28921-1	SWN-MW-5-N-01102025	9/10/2025	Water	590-28921-17	Alkalinity	J+	MB	
J28921-1	SWN-MW-5-N-01102025	9/10/2025	Water	590-28921-12	Chloride	J-	MS/MSD	

Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J28921-1	SWN-MW-6-N-01092025	1/9/2025	Water	590-28921-4	Alkalinity	J+	MB	
J28921-1	SWN-MW-7-N-01092025	1/9/2025	Water	590-28921-1	Alkalinity	J+	MB	
J28921-1	SWN-MW-7-FD-01092025	1/9/2025	Water	590-28921-2	Alkalinity	J+	MB	
J28921-1	SWN-MW-A-N-01092025	1/9/2025	Water	590-28921-8	Alkalinity	J+	MB	
J28940-1	EA-MW-5B-N-01132025	1/13/2025	Water	590-28940-2	Alkalinity	J+	MB	
J28940-1	GCF-MW-11B-N-01132025	1/13/2025	Water	590-28940-8	Alkalinity	J+	MB	
J28940-1	GCF-MW-11-N-01132025	1/13/2025	Water	590-28940-6	Alkalinity	J+	MB	
J28940-1	GCF-MW-13-N-01132025	1/13/2025	Water	590-28940-3	Alkalinity	J+	MB	
J28940-1	GCF-MW-5D-N-01132025	1/13/2025	Water	590-28940-1	Alkalinity	J+	MB	
J28940-1	GCF-MW-5D-N-01132025	1/13/2025	Water	590-28940-1	Calcium	J-	MS/MSD	
J28940-1	GCF-MW-5-FD-01132025	1/13/2025	Water	590-28940-5	Alkalinity	J+	MB	
J28940-1	GCF-MW-5-N-01132025	1/13/2025	Water	590-28940-4	Alkalinity	J+	MB	
J28940-1	GCF-MW-7-N-01132025	1/13/2025	Water	590-28940-7	Alkalinity	J+	MB	
J28985-1	EA-MW-8B-N-01142025	1/14/2025	Water	590-28985-1	Alkalinity	J+	MB	
J28985-1	GCF-MW-11A-N-01142025	1/14/2025	Water	590-28985-3	Alkalinity	J+	MB	
J28985-1	GCF-MW-12A-FD-01142025	1/14/2025	Water	590-28985-5	Alkalinity	J+	MB	
J28985-1	GCF-MW-12A-N-01142025	1/14/2025	Water	590-28985-4	Alkalinity	J+	MB	
J28985-1	GCF-MW-12B-N-01142025	1/14/2025	Water	590-28985-6	Alkalinity	J+	MB	
J28985-1	GDF-GR-5-N-01142025	1/14/2025	Water	590-28985-2	Alkalinity	J+	MB	
J28985-1	GDF-MW-10A-N-01142025	1/14/2025	Water	590-28985-7	Alkalinity	J+	MB	
J28985-1	GDF-MW-10R-N-01142025	1/14/2025	Water	590-28985-8	Alkalinity	J+	MB	
J29005-1	GDF-GR-2-FD-01152025	1/15/2025	Water	590-29005-2	Alkalinity	J+	MB	
J29005-1	GDF-GR-2-FD-01152025	1/15/2025	Water	590-29005-2	Potassium	J+	MB	
J29005-1	GDF-GR-2-N-01152025	1/15/2025	Water	590-29005-1	Alkalinity	J+	MB	
J29005-1	GDF-GR-2-N-01152025	1/15/2025	Water	590-29005-1	Potassium	J+	MB	
J29005-1	GDF-GR-3-N-01152025	1/15/2025	Water	590-29005-3	Alkalinity	J+	MB	
J29005-1	GDF-GR-3-N-01152025	1/15/2025	Water	590-29005-3	Potassium	J+	MB	
J29005-1	GDF-GR-4-N-01152025	1/15/2025	Water	590-29005-4	Alkalinity	J+	MB	
J29005-1	GDF-GR-4-N-01152025	1/15/2025	Water	590-29005-4	Potassium	J+	MB	
J29041-1	EAMW-7A-N-01172025	1/17/2025	Water	590-29041-4	Alkalinity	J+	MB	
J29041-1	EAMW-7A-N-01172025	1/17/2025	Water	590-29041-4	Potassium	U	MB	
J29041-1	EAMW-7B-N-01172025	1/17/2025	Water	590-29041-3	Alkalinity	J+	MB	
J29041-1	EAMW-7B-N-01172025	1/17/2025	Water	590-29041-3	Potassium	J+	MB	
J29041-1	GCF-MW-10-N-01172025	1/17/2025	Water	590-29041-5	Alkalinity	J+	MB	

Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J29041-1	GCF-MW-10-N-01172025	1/17/2025	Water	590-29041-5	Potassium	U	MB	
J29041-1	GCF-MW-8-FD-01172025	1/17/2025	Water	590-29041-2	Alkalinity	J+	MB	
J29041-1	GCF-MW-8-FD-01172025	1/17/2025	Water	590-29041-2	Potassium	U	MB	
J29041-1	GCF-MW-8-N-01172025	1/17/2025	Water	590-29041-1	Alkalinity	J+	MB	
J29041-1	GCF-MW-8-N-01172025	1/17/2025	Water	590-29041-1	Potassium	U	MB	
J29042-1	LTA-003-N-S001-01152025	1/15/2025	Soil	590-29042-14	TOC	J	FD	
J29042-1	LTA-003-FD-S001-01152025	1/15/2025	Soil	590-29042-20	TOC	J	FD	
J29042-3	JTA-001-N-S000-01152025	1/15/2025	Soil	590-29042-21	TOC	J-	HT	
J29042-3	JTA-002-N-S000-01152025	1/15/2025	Soil	590-29042-30	TOC	J-	HT	
J29042-3	JTA-002-N-S006-01152025	1/15/2025	Soil	590-29042-34	TOC	J-	HT	
J29042-3	LTA-001-N-S000-01152025	1/15/2025	Soil	590-29042-1	TOC	J-	HT	
J29042-3	LTA-002-N-S000-01152025	1/15/2025	Soil	590-29042-8	TOC	J-	HT	
J29042-3	LTA-002-N-S006-01152025	1/15/2025	Soil	590-29042-11	TOC	J-	HT	
J29042-3	LTA-003-N-S000-01152025	1/15/2025	Soil	590-29042-13	TOC	J-	HT	
J29042-4	JTA-002-N-S010-01152025	1/15/2025	Soil	590-29042-35	TOC	J-	HT	
J29042-5	JTA-002-N-S015-01152025	1/15/2025	Soil	590-29042-36	TOC	J-	HT	Since J- and J+, final qualifier J
J29042-5	JTA-002-N-S015-01152025	1/15/2025	Soil	590-29042-36	TOC	J+	MB	
J29042-6	JTA-002-N-S020-01152025	1/15/2025	Soil	590-29042-37	TOC	J-	HT	Since J- and J+, final qualifier J
J29042-6	JTA-002-N-S020-01152025	1/15/2025	Soil	590-29042-37	TOC	J+	MB	
J29042-7	JTA-002-N-S025-01152025	1/15/2025	Soil	590-29042-38	TOC	J-	HT	Since J- and J+, final qualifier J
J29042-7	JTA-002-N-S025-01152025	1/15/2025	Soil	590-29042-38	TOC	J+	MB	
J29043-3	JTA-003-N-S000-01162025	1/16/2025	Soil	590-29043-3	TOC	J-	HT	
J29043-3	JTA-003-N-S006-01162025	1/16/2025	Soil	590-29043-6	TOC	J-	HT	
J29043-3	JTA-004-N-S000-01162025	1/16/2025	Soil	590-29043-11	TOC	J-	HT	
J29043-3	JTA-004-N-S006-01162025	1/16/2025	Soil	590-29043-15	TOC	J-	HT	
J29043-3	JTA-005-N-S000-01162025	1/16/2025	Soil	590-29043-20	TOC	J-	HT	
J29043-3	JTA-005-N-S006-01162025	1/16/2025	Soil	590-29043-24	TOC	J-	HT	
J29043-3	JTA-006-N-S000-01162025	1/16/2025	Soil	590-29043-29	TOC	J-	HT	
J29043-3	JTA-006-N-S006-01162025	1/16/2025	Soil	590-29043-33	TOC	J-	HT	
J29043-4	JTA-003-N-S010-01162025	1/16/2025	Soil	590-29043-7	TOC	J-	HT	Final qualifier U at RL
J29043-4	JTA-003-N-S010-01162025	1/16/2025	Soil	590-29043-7	TOC	U	MB	
J29043-4	JTA-004-N-S010-01162025	1/16/2025	Soil	590-29043-16	TOC	J-	HT	Since J- and J+, final qualifier J
J29043-4	JTA-004-N-S010-01162025	1/16/2025	Soil	590-29043-16	TOC	J+	MB	
J29043-4	JTA-005-N-S010-01162025	1/16/2025	Soil	590-29043-25	TOC	J-	HT	

Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J29043-4	JTA-005-N-S010-01162025	1/16/2025	Soil	590-29043-25	TOC	U	MB	Final qualifier U at RL
J29043-4	JTA-006-N-S010-01162025	1/16/2025	Soil	590-29043-34	TOC	J-	HT	Since J- and J+, final qualifier J
J29043-4	JTA-006-N-S010-01162025	1/16/2025	Soil	590-29043-34	TOC	J+	MB	
J29043-5	JTA-005-N-S015-01162025	1/16/2025	Soil	590-29043-26	TOC	J-	HT	
J29043-5	JTA-005-N-S015-01162025	1/16/2025	Soil	590-29043-26	TOC	U	MB	Final qualifier U at RL
J29043-6	JTA-005-N-S017-01162025	1/16/2025	Soil	590-29043-27	TOC	J-	HT	
J29043-6	JTA-005-N-S017-01162025	1/16/2025	Soil	590-29043-27	TOC	U	MB	
J29043-6	JTA-005-N-S017-01162025	1/16/2025	Soil	590-29043-27	TOC	J	Lab Dup	Final qualifier U at RL
J29043-6	JTA-005-N-S017-01162025	1/16/2025	Soil	590-29043-27	TOC	J+	MSD	
J29043-7	JTA-005-N-S025-01162025	1/16/2025	Soil	590-29043-28	TOC	J-	HT	
J29043-7	JTA-005-N-S025-01162025	1/16/2025	Soil	590-29043-28	TOC	U	MB	Final qualifier U at RL
J29051-1	JTA-007-N-S001-01172025	1/17/2025	Soil	590-29051-2	TOC	J	Lab Dup	
J29051-3	JTA-007-N-S000-01172025	1/17/2025	Soil	590-29051-1	TOC	J-	HT	
J29051-3	JTA-007-N-S000-01172025	1/17/2025	Soil	590-29051-1	TOC	J	Lab Dup	
J29051-3	JTA-007-N-S006-01172025	1/17/2025	Soil	590-29051-5	TOC	J-	HT	
J29051-3	JTA-008-N-S000-01172025	1/17/2025	Soil	590-29051-8	TOC	J-	HT	
J29051-3	JTA-008-N-S006-01172025	1/17/2025	Soil	590-29051-11	TOC	J-	HT	
J29051-3	JTA-009-N-S000-01172025	1/17/2025	Soil	590-29051-15	TOC	J-	HT	
J29051-3	JTA-009-N-S006-01172025	1/17/2025	Soil	590-29051-19	TOC	J-	HT	
J29051-3	RT-003-N-S000-01172025	1/17/2025	Soil	590-29051-24	TOC	J-	HT	
J29051-3	RT-003-N-S006-01172025	1/17/2025	Soil	590-29051-28	TOC	J-	HT	
J29051-4	JTA-007-N-S010-01172025	1/17/2025	Soil	590-29051-6	TOC	J-	HT	
J29051-4	JTA-008-N-S010-01172025	1/17/2025	Soil	590-29051-12	TOC	J-	HT	Final qualifier U at RL
J29051-4	JTA-008-N-S010-01172025	1/17/2025	Soil	590-29051-12	TOC	U	MB	
J29051-4	JTA-009-N-S000-01172025	1/17/2025	Soil	590-29051-20	TOC	J-	HT	
J29051-4	RT-003-N-S010-01172025	1/17/2025	Soil	590-29051-29	TOC	J-	HT	Final qualifier U at RL
J29051-4	RT-003-N-S010-01172025	1/17/2025	Soil	590-29051-29	TOC	U	MB	
J29051-5	JTA-007-N-S013-01172025	1/17/2025	Soil	590-29051-7	TOC	J-	HT	
J29051-5	JTA-007-N-S013-01172025	1/17/2025	Soil	590-29051-7	TOC	U	MB	
J29051-5	JTA-007-N-S013-01172025	1/17/2025	Soil	590-29051-7	TOC	J	Lab Dup	
J29051-5	JTA-008-N-S015-01172025	1/17/2025	Soil	590-29051-13	TOC	J-	HT	Final qualifier U at RL
J29051-5	JTA-008-N-S015-01172025	1/17/2025	Soil	590-29051-13	TOC	U	MB	
J29051-5	JTA-009-N-S015-01172025	1/17/2025	Soil	590-29051-21	TOC	J-	HT	



Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J29051-5	JTA-009-N-S015-01172025	1/17/2025	Soil	590-29051-21	TOC	U	MB	Final qualifier U at RL
J29051-6	JTA-008-N-S017-01172025	1/17/2025	Soil	590-29051-14	TOC	J-	HT	Final qualifier U at RL
J29051-6	JTA-008-N-S017-01172025	1/17/2025	Soil	590-29051-14	TOC	U	MB	Final qualifier U at RL
J29051-6	JTA-009-N-S020-01172025	1/17/2025	Soil	590-29051-22	TOC	J-	HT	Final qualifier U at RL
J29051-6	JTA-009-N-S020-01172025	1/17/2025	Soil	590-29051-22	TOC	U	MB	Final qualifier U at RL
J29051-7	JTA-009-N-S030-01172025	1/17/2025	Soil	590-29051-23	TOC	J-	HT	Final qualifier J
J29051-7	JTA-009-N-S030-01172025	1/17/2025	Soil	590-29051-23	TOC	J+	MB	Final qualifier J
J29051-7	JTA-009-N-S030-01172025	1/17/2025	Soil	590-29051-23	TOC	J	Lab Dup	Final qualifier J
J29066-3	PDW-001-N-S006-01202025	1/20/2025	Soil	590-29066-27	TOC	J-	HT	
J29066-3	PDW-002-N-S000-01202025	1/20/2025	Soil	590-29066-14	TOC	J-	HT	
J29066-3	PDW-002-N-S006-01202025	1/20/2025	Soil	590-29066-17	TOC	J-	HT	
J29066-3	RTA-002-N-S000-01202025	1/20/2025	Soil	590-29066-1	TOC	J-	HT	
J29066-3	RTA-002-N-S006-01202025	1/20/2025	Soil	590-29066-4	TOC	J-	HT	
J29098-1	FIT-003-N-S003-01212025	1/21/2025	Soil	590-29098-14	TOC	R	PJ	
J29098-1	SRA-004A-N-S001-01212025	1/21/2025	Soil	590-29098-37	TOC	J	FD	
J29098-1	SRA-004A-FD-S001-01212025	1/21/2025	Soil	590-29098-38	TOC	J	FD	
J29098-3	FIT-001-N-S000-01212025	1/21/2025	Soil	590-29098-7	TOC	J-	HT	
J29098-3	FIT-001-N-S005-01212025	1/21/2025	Soil	590-29098-11	TOC	J-	HT	
J29098-3	FIT-002-N-S000-01212025	1/21/2025	Soil	590-29098-1	TOC	J-	HT	
J29098-3	FIT-002-N-S006-01212025	1/21/2025	Soil	590-29098-4	TOC	J-	HT	
J29098-3	FIT-003-N-S000-01212025	1/21/2025	Soil	590-29098-12	TOC	J-	HT	
J29098-3	FIT-004-N-S000-01212025	1/21/2025	Soil	590-29098-22	TOC	J-	HT	
J29098-3	FIT-005-N-S000-01212025	1/21/2025	Soil	590-29098-21	TOC	J-	HT	
J29098-3	FIT-006-N-S000-01212025	1/21/2025	Soil	590-29098-20	TOC	J-	HT	
J29098-3	FIT-007-N-S000-01212025	1/21/2025	Soil	590-29098-18	TOC	J-	HT	
J29098-3	FIT-008-N-S000-01212025	1/21/2025	Soil	590-29098-19	TOC	J-	HT	
J29098-3	SRA-003-N-S000-01212025	1/21/2025	Soil	590-29098-30	TOC	J-	HT	
J29098-3	SRA-003-N-S006-01212025	1/21/2025	Soil	590-29098-33	TOC	J-	HT	
J29098-3	SRA-004A-N-S000-01212025	1/21/2025	Soil	590-29098-36	TOC	J-	HT	
J29098-3	SRA-004A-N-S006-01212025	1/21/2025	Soil	590-29098-40	TOC	J-	HT	
J29098-3	SRA-004B-N-S000-01212025	1/21/2025	Soil	590-29098-41	TOC	J-	HT	
J29098-3	SRA-006-N-S000-01212025	1/21/2025	Soil	590-29098-44	TOC	J-	HT	



Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J29098-3	SRA-007A-N-S006-01212025	1/21/2025	Soil	590-29098-42	TOC	J-	HT	
J29098-3	SRA-007B-N-S000-01212025	1/21/2025	Soil	590-29098-43	TOC	J-	HT	
J29098-4	FIT-002-N-S010-01212025	1/21/2025	Soil	590-29098-5	TOC	J-	HT	
J29098-4	SRA-003-N-S010-01212025	1/21/2025	Soil	590-29098-34	TOC	J-	HT	
J29098-4	SRA-006-N-S006-01212025	1/21/2025	Soil	590-29098-46	TOC	J-	HT	
J29098-5	FIT-002-N-S015-01212025	1/21/2025	Soil	590-29098-6	TOC	J-	HT	Final qualifier U at RL
J29098-5	FIT-002-N-S015-01212025	1/21/2025	Soil	590-29098-6	TOC	U	MB	
J29098-5	SRA-003-N-S012-01212025	1/21/2025	Soil	590-29098-35	TOC	J-	HT	Final qualifier U at RL
J29098-5	SRA-003-N-S012-01212025	1/21/2025	Soil	590-29098-35	TOC	U	MB	
J29123-1	SRA-009-N-S000-01222025	1/22/2025	Soil	590-29123-9	TOC	J	Lab Dup	
J29123-3	HFH-001-N-S000-01222025	1/22/2025	Soil	590-29123-31	TOC	J-	HT	
J29123-3	HFH-001-N-S006-01222025	1/22/2025	Soil	590-29123-35	TOC	J-	HT	
J29123-3	SRA-001-N-S000-01222025	1/22/2025	Soil	590-29123-27	TOC	J-	HT	
J29123-3	SRA-001-N-S006-01222025	1/22/2025	Soil	590-29123-30	TOC	J-	HT	
J29123-3	SRA-005-N-S000-01222025	1/22/2025	Soil	590-29123-1	TOC	J-	HT	
J29123-3	SRA-008-N-S000-01222025	1/22/2025	Soil	590-29123-23	TOC	J-	HT	
J29123-3	SRA-010-N-S000-01222025	1/22/2025	Soil	590-29123-10	TOC	J-	HT	
J29123-3	SRA-010-N-S006-01222025	1/22/2025	Soil	590-29123-14	TOC	J-	HT	
J29123-3	SRA-011-N-S000-01222025	1/22/2025	Soil	590-29123-17	TOC	J-	HT	
J29123-3	SRA-011-N-S006-01222025	1/22/2025	Soil	590-29123-20	TOC	J-	HT	
J29123-4	SRA-010-N-S010-01222025	1/22/2025	Soil	590-29123-15	TOC	J-	HT	
J29123-4	SRA-011-N-S010-01222025	1/22/2025	Soil	590-29123-21	TOC	J-	HT	
J29123-5	SRA-011-N-S014-01222025	1/22/2025	Soil	590-29123-22	TOC	J-	HT	Final qualifier U at RL
J29123-5	SRA-011-N-S014-01222025	1/22/2025	Soil	590-29123-22	TOC	U	MB	
J29140-1	HFH-004-FD-S003-01232025	1/23/2025	Soil	590-29140-4	TOC	J	Lab Dup	
J29140-2	HFH-002-N-S012-01232025	1/23/2025	Soil	590-29140-27	TOC	J-	HT	Final qualifier U at RL
J29140-2	HFH-002-N-S012-01232025	1/23/2025	Soil	590-29140-27	TOC	U	MB	
J29140-3	FMB-004-N-S0005-01232025	1/23/2025	Soil	590-29140-28	TOC	J-	HT	
J29140-3	FMB-004-S006-01232025	1/23/2025	Soil	590-29140-31	TOC	J-	HT	
J29140-3	HFH-002-N-S0005-01232025	1/23/2025	Soil	590-29140-21	TOC	J-	HT	
J29140-3	HFH-002-N-S006-01232025	1/23/2025	Soil	590-29140-25	TOC	J-	HT	
J29140-3	HFH-003-N-S0005-01232025	1/23/2025	Soil	590-29140-14	TOC	J-	HT	
J29140-3	HFH-003-N-S010-01232025	1/23/2025	Soil	590-29140-19	TOC	J-	HT	
J29140-3	HFH-004-N-S0005-01232025	1/23/2025	Soil	590-29140-1	TOC	J-	HT	



Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J29140-3	HFH-004-N-S006-01232025	1/23/2025	Soil	590-29140-5	TOC	J-	HT	
J29140-3	HFH-005-N-S0005-01232025	1/23/2025	Soil	590-29140-8	TOC	J-	HT	
J29140-3	HFH-005-N-S006-01232025	1/23/2025	Soil	590-29140-12	TOC	J-	HT	
J29140-4	HFH-002-N-S010-01232025	1/23/2025	Soil	590-29140-26	TOC	J-	HT	Final qualifier U at RL
J29140-4	HFH-002-N-S010-01232025	1/23/2025	Soil	590-29140-26	TOC	U	MB	
J29140-4	HFH-003-N-S012-01232025	1/23/2025	Soil	590-29140-20	TOC	J-	HT	
J29140-4	HFH-003-N-S012-01232025	1/23/2025	Soil	590-29140-20	TOC	U	MB	
J29140-4	HFH-005-N-S010-01232025	1/23/2025	Soil	590-29140-13	TOC	J-	HT	Final qualifier U at RL
J29140-4	HFH-005-N-S010-01232025	1/23/2025	Soil	590-29140-13	TOC	U	MB	
J29158-1	CFH-003-N-S003-01242025	1/24/2025	Soil	590-29158-41	TOC	J+	MS	
J29158-1	FMB-001-N-S003-01272025	1/27/2025	Soil	590-29158-4	TOC	J	Lab Dup	
J29158-3	CFH-001-N-S000-01242025	1/24/2025	Soil	590-29158-52	TOC	J-	HT	
J29158-3	CFH-001-N-S006-01242025	1/24/2025	Soil	590-29158-55	TOC	J-	HT	
J29158-3	CFH-002-N-S000-01242025	1/24/2025	Soil	590-29158-45	TOC	J-	HT	
J29158-3	CFH-003-N-S000-01242025	1/24/2025	Soil	590-29158-39	TOC	J-	HT	
J29158-3	CFH-003-N-S006-01242025	1/24/2025	Soil	590-29158-42	TOC	J-	HT	
J29158-3	CFH-004-N-S000-01242025	1/24/2025	Soil	590-29158-32	TOC	J-	HT	
J29158-3	CFH-004-N-S006-01242025	1/24/2025	Soil	590-29158-35	TOC	J-	HT	
J29158-3	CFH-004-N-S015-01242025	1/24/2025	Soil	590-29158-38	TOC	J-	HT	
J29158-3	CFH-005-N-S000-01242025	1/24/2025	Soil	590-29158-27	TOC	J-	HT	
J29158-3	CFH-006-N-S000-01242025	1/24/2025	Soil	590-29158-25	TOC	J-	HT	
J29158-3	CFH-007-N-S000-01242025	1/24/2025	Soil	590-29158-21	TOC	J-	HT	
J29158-3	FMB-001-N-S0005-01272025	1/27/2025	Soil	590-29158-1	TOC	J-	HT	
J29158-3	FMB-001-N-S005-01272025	1/27/2025	Soil	590-29158-6	TOC	J-	HT	
J29158-3	FMB-002-N-S0005-01242025	1/24/2025	Soil	590-29158-15	TOC	J-	HT	
J29158-3	FMB-002-N-S006-01242025	1/24/2025	Soil	590-29158-18	TOC	J-	HT	
J29158-3	FMB-003-N-S0005-01242025	1/24/2025	Soil	590-29158-7	TOC	J-	HT	
J29158-3	FMB-003-N-S006-01242025	1/24/2025	Soil	590-29158-11	TOC	J-	HT	
J29158-3	FMB-003-N-S015-01242025	1/24/2025	Soil	590-29158-14	TOC	J-	HT	
J29158-4	CFH-001-N-S010-01242025	1/24/2025	Soil	590-29158-56	TOC	J-	HT	Final qualifier U at RL
J29158-4	CFH-001-N-S010-01242025	1/24/2025	Soil	590-29158-56	TOC	U	MB	
J29158-4	FMB-001-N-S006-01272025	1/27/2025	Soil	590-29158-5	TOC	J-	HT	Final qualifier U at RL
J29158-4	FMB-001-N-S006-01272025	1/27/2025	Soil	590-29158-5	TOC	U	MB	
J29158-4	FMB-002-N-S010-01242025	1/24/2025	Soil	590-29158-19	TOC	J-	HT	

GSI Job No. 6892
Laboratory Job IDs: J28824 thru J29158
Issued: 13 March 2026



Lab Report	Sample ID	Sample Date	Matrix	Laboratory ID	Analyte	Qualifier	Reason	Note
J29158-4	FMB-002-N-S010-01242025	1/24/2025	Soil	590-29158-19	TOC	U	MB	Final qualifier U at RL
J29158-5	FMB-002-N-S013-01242025	1/24/2025	Soil	590-29158-20	TOC	J-	HT	Final qualifier U at RL
J29158-5	FMB-002-N-S013-01242025	1/24/2025	Soil	590-29158-20	TOC	U	MB	Final qualifier U at RL

**APPENDIX C DATA USABILITY SUMMARY
INITIAL PFAS INVESTIGATION REPORT**

Spokane International Airport
Spokane, WA

ATTACHMENT C2

PFAS Data Validation Reports (Pyron Environmental)

Data Validation Report

Initial PFAS Investigation Spokane International Airport Spokane, WA

Groundwater Sampling 2025

Prepared for:

GSI Environmental Inc.
1115 West Bay Dr. NW | Suite 202
Olympia, WA 98502

GSI Job No.: 6892

Prepared by:

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October 20, 2025

Approved By: _____



Mingta Lin, Principal Chemist

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Acronyms

%R	percent recovery
%RSD	percent relative standard deviation
%RSE	percent relative Standard error
amu	atomic mass unit
CCB	continuing calibration blank
CCV	continuing calibration verification
CCVL	low-level (at or below reporting limit) continuing calibration verification
CLP	U.S. EPA Contract Laboratory Program
COC	chain-of-custody
DoD	U.S. Department of Defense
DQO	data quality objective
EIS	extracted internal standard
EPA	U.S. Environmental Protection Agency
ICAL	initial calibration
ICB	initial calibration blank
ICV	initial calibration verification
ISC	instrument sensitivity check
LC/MS-MS	liquid chromatography with tandem mass spectrometry
LCS	laboratory control sample
LCS D	laboratory control sample duplicate
LLOPR	low-level ongoing precision and recovery
MS	matrix spike
MSD	matrix spike duplicate
NEtFOSA	N-ethyl perfluorooctanesulfonamide
NEtFOSE	N-ethyl perfluorooctanesulfonamidoethanol
ng/L	nanogram per liter
NMeFOSA	N-methyl perfluorooctanesulfonamide
NMeFOSE	N-methyl perfluorooctane sulfonamidoethanol
NIS	non-extracted internal standard
OPR	ongoing precision and recovery
PFAS	per- and polyfluoroalkyl substances
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid

QA/QC	quality assurance/quality control
RF	response factor
RPD	relative percent difference
RT	retention time
SDG	sample delivery group
S/N	signal-noise ratio
TCDA	taurochenodeoxycholic acid
TDCA	taurodeoxycholic acid
TUDCA	tauroursodeoxycholic acid

I. INTRODUCTION

This report presents and discusses findings of the chemical data quality review performed on analytical data associated with the 80 water samples collected in January 2025 for the referenced project. Sample analyses were performed by Eurofins Environment Testing America in West Sacramento, California (Eurofins). Sample results were reported in seven sample delivery groups (SDGs), assigned Eurofins Job Numbers: 320-118123-1, 320-118162-1, 320-118205-1, 320-118256-1, 320-118263-1, 320-118344-1, and 320-118376-1.

The data validation procedures followed the documents below as guidelines:

- United States Environmental Protection Agency (USEPA) *Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review*. Office of Superfund Remediation and Technical Innovation. November 2020. OLEM 9240.0-51. EPA-540-R-20-005.
- United States Department of Defense (DoD) *Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24*. Environmental Data Quality Workgroup. November 1, 2022.

A Stage 4 (as defined in DoD 2022) validation was performed on 10 percent of the data and a Stage 2B on the remaining data. Instrument calibration, calibration verification, and analytical sequence requirements were checked against the analytical method (EPA Method 1633). Quality control components were evaluated against the data quality objectives (DQOs) specified in the Quality Assurance Project Plan ([QAPP], GSI 2024) and the laboratory in-house performance-based control criteria (laboratory control limits).

Data validation findings are discussed in **Section II – Data Quality Review Findings**, pertinent to the QC parameters for each type of analysis. Field duplicate evaluation is presented in **Section III**. Qualified data along with data qualifiers, qualification reasons, and qualifier definitions are presented in **Section IV - Data Quality Review Summary**. Samples and the associated analyses validated herein are summarized as follows:

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
LA-MW-8-N-01062025	320-118123-1	01/06/25	GW	X
LA-MW-10-N-01062025	320-118123-2	01/06/25	GW	X
LA-MW-10-FD-01062025	320-118123-3	01/06/25	FD	X
LA-MW-9-N-01062025	320-118123-4	01/06/25	GW	X
LA-MW-12-N-01062025	320-118123-5	01/06/25	GW	X
LA-MW-11-N-01062025	320-118123-6	01/06/25	GW	X
W-MW-17-N-01062025	320-118123-7	01/06/25	GW	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
FB-01062025	320-118123-8	01/06/25	FB	X
EB-01062025	320-118123-9	01/06/25	EB	X
FB-01072025	320-118162-1	01/07/25	FB	X
W-MW-15-N-01072025	320-118162-2	01/07/25	GW	X
EA-MW-14A-N-01072025	320-118162-3	01/07/25	GW	X
EA-MW-14B-N-01072025	320-118162-4	01/07/25	GW	X
EA-MW-13A-N-01072025	320-118162-5	01/07/25	GW	X
EA-MW-13A-FD-01072025	320-118162-6	01/07/25	FD	X
EB-01072025	320-118162-7	01/07/25	EB	X
FB-01082025	320-118205-1	01/08/25	FB	X
EA-MW-13B-N-01082025	320-118205-2	01/08/25	GW	X
EA-MW-8A-N-01082025	320-118205-3	01/08/25	GW	X
SWN-MW-321-N-01082025	320-118205-4	01/08/25	GW	X
EB-1-01082025	320-118205-5	01/08/25	EB	X
EA-MW-5A-N-01082025	320-118205-6	01/08/25	GW	X
EA-MW-5A-FD-01082025	320-118205-7	01/08/25	FD	X
EB-2-01082025	320-118205-8	01/08/25	EB	X
SWN-MW-7-N-01092025	320-118256-1	01/09/25	GW	X
SWN-MW-7-FD-01092025	320-118256-2	01/09/25	FD	X
SWN-MW-4-N-01092025	320-118256-3	01/09/25	GW	X
SWN-MW-6-N-01092025	320-118256-4	01/09/25	GW	X
SWN-MW-14-N-01092025	320-118256-5	01/09/25	GW	X
SWN-MW-13-N-01092025	320-118256-6	01/09/25	GW	X
FGF-MW-18-N-01092025	320-118256-7	01/09/25	GW	X
EB-1-01092025	320-118256-8	01/09/25	EB	X
SWN-MW-A-N-01092025	320-118256-9	01/09/25	GW	X
SWN-MW-3-N-01092025	320-118256-10	01/09/25	GW	X
SWN-MW-1-N-01092025	320-118256-11	01/09/25	GW	X
SWN-MW-2-N-01092025	320-118256-12	01/09/25	GW	X
EB-2-01092025	320-118256-13	01/09/25	EB	X
FB-01092025	320-118256-14	01/09/25	FB	X
SWN-MW-5-N-01102025	320-118256-15	01/10/25	GW	X
PD-MW-1A-N-01102025	320-118256-16	01/10/25	GW	X
GDF-GR-8-N-01102025	320-118256-17	01/10/25	GW	X
GDF-GR-7D-N-01102025	320-118256-18	01/10/25	GW	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
GDF-GR-7S-N-01102025	320-118256-19	01/10/25	GW	X
EB-1-01102025	320-118256-20	01/10/25	EB	X
EB-2-01102025	320-118256-21	01/10/25	EB	X
FB-01102025	320-118256-22	01/10/25	FB	X
SWN-MW-5-FD-01102025	320-118256-23	01/10/25	FD	X
GCF-MW-5D-N-01132025	320-118263-1	01/13/25	GW	X
EA-MW-5B-N-01132025	320-118263-2	01/13/25	GW	X
GCF-MW-13-N-01132025	320-118263-3	01/13/25	GW	X
GCF-MW-5-N-01132025	320-118263-4	01/13/25	GW	X
GCF-MW-5-FD-01132025	320-118263-5	01/13/25	FD	X
GCF-MW-11-N-01132025	320-118263-6	01/13/25	GW	X
GCF-MW-7-N-01132025	320-118263-7	01/13/25	GW	X
GCF-MW-11B-N-01132025	320-118263-8	01/13/25	GW	X
EB-01132025	320-118263-9	01/13/25	EB	X
FB-01132025	320-118263-10	01/13/25	FB	X
EA-MW-8B-N-01142025	320-118344-1	01/14/25	GW	X
GDF-GR-5-N-01142025	320-118344-2	01/14/25	GW	X
GCF-MW-11A-N-01142025	320-118344-3	01/14/25	GW	X
GCF-MW-12A-N-01142025	320-118344-4	01/14/25	GW	X
GCF-MW-12A-FD-01142025	320-118344-5	01/14/25	FD	X
GCF-MW-12B-N-01142025	320-118344-6	01/14/25	GW	X
GDF-MW-10A-N-01142025	320-118344-7	01/14/25	GW	X
GDF-MW-10R-N-01142025	320-118344-8	01/14/25	GW	X
EB-01142025	320-118344-9	01/14/25	EB	X
FB-01142025	320-118344-10	01/14/25	FB	X
GDF-GR-2-N-01152025	320-118344-11	01/15/25	GW	X
GDF-GR-2-FD-01152025	320-118344-12	01/15/25	FD	X
GDF-GR-3-N-01152025	320-118344-13	01/15/25	GW	X
GDF-GR-4-N-01152025	320-118344-14	01/15/25	GW	X
EB-01152025	320-118344-15	01/15/25	EB	X
FB-01152025	320-118344-16	01/15/25	FB	X
FB-01172025	320-118376-1	01/17/25	FB	X
GCF-MW-8-N-01172025	320-118376-2	01/17/25	GW	X
GCF-MW-8-FD-01172025	320-118376-3	01/17/25	FD	X
EB-01172025	320-118376-4	01/17/25	EB	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
EA-MW-7B-N-01172025	320-118376-5	01/17/25	GW	X
EA-MW-7A-N-01172025	320-118376-6	01/17/25	GW	X
GCF-MW-10-N-01172025	320-118376-7	01/17/25	GW	X

Notes:

X: The analysis was requested and performed on the sample.

PFAS: Project specific per- and polyfluoroalkyl substances, including 40 target compounds.

EB – Equipment rinsate blank

FB – Field blank

FD – Field duplicate

The analytical parameters requested for the samples, the respective analytical methods, and the analytical laboratories are summarized below:

Parameter	Analytical Method	Analytical Laboratory
Per- and Polyfluoroalkyl Substances (PFAS)	EPA Method 1633	Eurofins Environment Testing America West Sacramento, California

Note: EPA Method 1633: *Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS*. USEPA, Office of Water. January 2024. EPA 821-R-24-001.

II. DATA VALIDATION FINDINGS

1. Sample Custody, Preservation, and Analysis Completeness

Sample custody was maintained and documented as required from the sample collection to the receipt at the laboratory (Eurofins Sacramento). Samples were properly preserved, cooler temperatures were maintained at $<6^{\circ}\text{C}$ across the course of transit, and sample counts were consistent with the accompanying chain-of-custody (COC) documentation. All analyses requested in the COC forms were completed.

2. Per- and Polyfluoroalkyl Substances ([PFAS]; EPA Method 1633)

2.1 Holding Times

The Work Plan calls for water samples being extracted within 28 days of collection and extracts analyzed within 90 days of extraction. All samples were extracted and analyzed within the project required holding times.

2.2 Mass Calibration and Verification

Mass calibration was subjected to the laboratory standard operation procedures following instrument manufacturer's requirements.

To evaluate the mass verification, the first level standard from the initial calibration curve is used to evaluate the tune stability on an ongoing basis. The instrument mass windows are set initially at ± 0.5 amu of the true value; therefore, continued detection of the analyte transition with $S/N > 10$ serves as verification that the assigned mass remains within ± 0.5 amu of the true value. No anomalies were identified in relation to instrument tuning.

2.3 Initial Calibration (ICAL)

The following criteria were applied to ICAL evaluation:

- (1) A minimum of five standards should be used when using average response factor and/or linear calibration fits; a minimum of six analytical standards were to be used when a quadratic fit is used to generate the ICAL curve.
- (2) For average response factors (RFs), the relative standard deviation (%RSD) or percent relative standard error (%RSE) values for all compounds and internal standards must be $\leq 20\%$.
- (3) Immediately following the ICAL, a calibration blank (ICB) should be analyzed; ICB should consist of blank methanol/water containing all EIS and NIS compounds.
- (4) Following the ICB, an initial calibration verification (ICV) standard at the mid-point level of the ICAL and obtained from a source different than the ICAL standards should be analyzed. The

%R values for target compounds and internal standards must be within or equal to 70-130% of true values.

The ICALs met the criteria.

2.4 Continuing Calibration Verification (CCV)

The following criteria were applied to evaluate CCVs:

- (1) A CCV containing all target compounds and internal standards at the mid-level of ICAL should be analyzed at the beginning of every analytical sequence prior to sample analysis, after every 10 samples, and at the end of the analytical sequence.
- (2) An Instrument Sensitivity Check (ISC), named as low-level CCV (CCVL) by the laboratory, at or below the reporting limit (RL) should be analyzed at the beginning of an analytical sequence.
- (3) The recovery for the CCV and CCVL must be within 70-130% of the true value for all target analytes.
- (4) A bile salts interference check standard consisting of TDCA (if acetonitrile is used as mobile phase), or TDCA, TCDA, and TUDCA (if alternative mobile phase is used) was analyzed daily, prior to analysis of samples. The peak separation between retention time of the bile salts and the retention time window of PFOS must be greater than 1 minute.
- (5) A Qualitative Identification Standard (QIS) containing a mixture of the branched and linear isomers of PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE was analyzed daily, prior to analysis of all samples.

CCV requirements were met, except for the following:

CCV ID	Analyte	%D	Control Limit	Bias	Affected Sample	Data Qualifier
CCV 320-828092/6 01/17/25, 10:52	PFEESA	31.0%	±30%	High	FB-01082025 EA-MW-8A-N-01082025 EB-1-01082025	UJ
CCVL 320-829593/10 01/27/25, 10:51	NFDHA	46%	±30%	High	EA-MW-8B-N-01142025	UJ
CCVL 320-828767/4 01/22/25, 07:21	11Cl-PF3OUdS	31.0%	±30%	High	FB-01142025 GDF-GR-2-N-01152025 GDF-GR-2-FD-01152025 GDF-GR-3-N-01152025 GDF-GR-4-N-01152025 EB-01152025 FB-01152025 GDF-GR-5-N-01142025 GCF-MW-11A-N-01142025 GCF-MW-12A-N-01142025 GCF-MW-12A-FD-01142025 GCF-MW-12B-N-01142025 GDF-MW-10A-N-01142025 GDF-MW-10R-N-01142025 EB-01142025	UJ

CCV ID	Analyte	%D	Control Limit	Bias	Affected Sample	Data Qualifier
CCVL 320-828092/5 01/17/25, 10:35	PFEESA PFDoS	40.4% 31.6%	±30%	High	FB-01082025 EA-MW-8A-N-01082025 EB-1-01082025 SWN-MW-7-N-01092025 SWN-MW-1-N-01092025 SWN-MW-2-N-01092025 EB-2-01092025 FB-01092025 SWN-MW-5-N-01102025 PD-MW-1A-N-01102025 GDF-GR-8-N-01102025 GDF-GR-7D-N-01102025 GDF-GR-7S-N-01102025 SWN-MW-7-FD-01092025 EB-1-01102025 EB-2-01102025 FB-01102025 SWN-MW-5-FD-01102025 SWN-MW-14-N-01092025 SWN-MW-13-N-01092025 FGF-MW-18-N-01092025 EB-1-01092025 SWN-MW-A-N-01092025	UJ

2.5 Blanks

ICB and CCB: ICBs and CCBs were analyzed as required by the Method. Target analytes were either not detected in ICBs and CCB at or above the method detection limits (MDLs), or the associated sample concentrations were greater than 5X the detections ICBs/CCBs. No data qualifying action was required.

Method Blanks: Method blanks were prepared and analyzed as required by the Method. Target analytes were either not detected at or above the MDLs, or the associated sample concentrations were greater than 5X the detections in method blanks, except for the following:

Blank ID	Analyte	Detection in Blank (ng/L)	Affected Sample	Original Result (ng/L)	Qualified Result (ng/L)
MB 320-826873/1-A	PFBS	0.765 J	LA-MW-8-N-01062025 LA-MW-10-N-01062025 LA-MW-10-FD-01062025 W-MW-17-N-01062025	3.2 2.0 1.8 3.0	J+

Field Blanks: Nine field blanks were collected. Target analytes were either not detected at or above the MDLs, or the associated sample concentrations were greater than 5X the detections in field blanks, except for the following:

Blank ID	Analyte	Detection in Blank (ng/L)	Affected Sample	Original Result (ng/L)	Qualified Result (ng/L)
FB-01062025	PFHxS	0.4 J	LA-MW-11-N-01062025 W-MW-17-N-01062025	0.61 J 1.2 J	1.6 U 1.7 U
FB-01062025	PFOS	11	LA-MW-8-N-01062025 LA-MW-9-N-01062025 LA-MW-12-N-01062025 LA-MW-11-N-01062025 W-MW-17-N-01062025	14 11 2.2 7.6 2.3	J+

Equipment Rinsate Blanks: Twelve equipment rinsate blanks were collected. Target analytes were not detected at or above the MDLs in these samples, except that EtFOSE and MeFOSE were detected in EB-2-01082025. These compounds were not detected in associated samples; no data qualifying action was required.

2.6 Ongoing Precision and Recovery (OPR) and Low-Level OPR (LLOPR)

OPR and LLOPR (named as LCS and LLCS by the laboratory) analyses were performed as required by the Method. A set of LCS and LCS duplicate (LCSD) were prepared and analyzed in association with project samples. All %R and RPD values either met the laboratory control limits, or the outlier had no adverse effects on data quality (*e.g.*, biased high %R or RPD value for an analyte that was not detected in associated samples).

2.7 Extracted Internal Standard [EIS]

Proper EIS (named as surrogate spike) compounds were to be added to all samples and QC analyses as required by the Method. The EIS retention times for all field and QC samples should be within 0.40 minutes of the retention time of the midpoint standard in the ICAL, or on days when an ICAL is not performed, the initial CV is used. Analytes calibrated using isotope dilution (*i.e.*, those with corresponding isotopically labeled analogs) should elute within +/- 0.1 minutes of their associated EIS. RTs met the Method requirement.

EIS retention time and recovery met the criteria, except that recovery for selected EIS in few samples was outside the laboratory control criteria, but >10% and <200% of the associated CCVs. As per DoD Data Validation Guidelines, Module 6, detects for analytes quantitated using an EIS percent recovery >200% should be qualified estimated with a negative bias (J-) and non-detects should not be qualified. If the EIS recovery is <10%, associated detects and non-detects should be qualified (R) and rejected. No data qualifying action was required in this manner.

In cases where EIS recovery was outside the laboratory criteria in QC analyses (*e.g.*, method blanks and LCS), the effects on associated field sample results were evaluated and data qualified as appropriate. No data action was taken in these cases.

2.8 Non-extracted Internal Standard [NIS]

NIS compounds (named as internal standard by the laboratory) should be added to samples and QC analyses. NIS response peak areas must be $\geq 30\%$ of the average area of the corresponding NIS in the calibration standards. The NIS retention times for all field and QC samples should be within 0.40 minutes of the retention time of the midpoint standard in the ICAL, or on days when an ICAL is not performed, the initial CV is used. All NIS response and RTs met the Method control criteria, except that selected NIS recovery was less than 30% due to required extract dilutions. The %R values for the associated EIS compounds were within control criteria for target compound(s) reported from the dilution analyses. No data qualifying action was required.

2.9 Matrix Spike and Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were not performed on a project sample in this SDG. The method applies isotope dilution technique, which generally precludes sample matrix effects. No further action was taken in this case.

2.10 Field Duplicates

Nine field duplicates were collected and submitted for PFAS analysis. The RPD and concentration difference values and data qualification for detected target analytes were presented in **Section III**. The field duplicate results met the project field precision criteria.

2.11 Compound Quantitation and Detection Limits

Project target PFAS containing linear and branch isomers (*e.g.*, PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE) were properly integrated and quantitated. Manual integration was performed properly and consistently across calibration and sample analyses.

Sample-specific MDLs and RLs were adjusted with sample amount extracted. RLs were supported with adequate initial calibration concentrations. The reported MDLs and RLs were consistent with those listed in the QAPP, Table 12, as applicable.

In cases where an analyte concentration exceeded instrument calibration range, dilution analysis was performed for the analyte for definitive quantitation of the analyte.

Due to substantial matrix interference, less than normal sample aliquots were used for selected samples. The MDLs and RLs were raised accordingly.

Verification calculations were performed on more than 10% of the instrument calibration, calibration verifications, standard concentrations, and reported QC and sample analyses. No anomalies were found. Sample quantitation and reporting were correctly performed.

2.12 Target Compound Identification

Target compound identification is evaluated by examining if:

- (1) The transition ions specified in the SOP were monitored consistently across the course of calibration and sample analyses.
- (2) The relative RT for an analyte to the corresponding labeled internal standard should be within ± 0.1 minute.
- (3) S/N signal for both quantitative and qualitative transition ions must be ≥ 3 .
- (4) Transition ion abundance ratio should be within 50 – 150% of the ICV if analyzed immediately following the ICAL or the most recent CCV standard.

No anomalies were found in relation to target compound identification, except that transition ion abundance ratios for selected detections were outside the control limits as qualified below:

Sample ID	Lab Sample ID	Analyte	Sample Ion Ratio	CCV Ion Ratio	Control Limit	Data Qualifier
LA-MW-12-N-01062025	320-118123-5	PFOS	7.693	4.377	2.19 - 6.57	J
SWN-MW-A-N-01092025	320-118256-9	PFPeA	41.891	110.946	55.47 - 166.42	J
GDF-GR-8-N-01102025	320-118256-17	PFOS	6.482	4.226	2.11 - 6.34	J
GDF-GR-7S-N-01102025	320-118256-19	PFBS	6.325	2.205	1.10 - 3.31	J
GCF-MW-5-N-01132025	320-118263-4	PFNA	4.730	3.061	1.53 - 4.59	J
GCF-MW-7-N-01132025	320-118263-7	PFNA	4.972	3.061	1.53 - 4.59	J
EA-MW-8B-N-01142025	320-118344-1	PFHpS	7.559	4.663	2.33 - 6.99	J
GDF-MW-10R-N-01142025	320-118344-8	PFOS	6.622	4.349	2.17 - 6.52	J
GCF-MW-8-N-01172025	320-118376-2	PFOS	7.187	4.259	2.13 - 6.39	J
GCF-MW-8-FD-01172025	320-118376-3	PFOS	6.551	4.259	2.13 - 6.39	J

2.13 System Performance

The system performance and stability over an analytical sequence was evaluated by examining chromatograms for abrupt baseline shifting, excessive baseline rise at elevated temperature, progressing peak tailing, or loss of resolution. In addition, the internal standard retention times and response areas were checked for trends of shifting. No anomalies were observed.

2.14 Overall Assessment of PFAS Data Usability

PFAS data are acceptable for use as qualified, based on the information submitted by the laboratory. Qualified data are summarized in **Section IV-1**.

III. FIELD DUPLICATE SUMMARY

According to the QAPP, a criterion of 30 percent was applied to evaluate the RPD values of field duplicate results \geq RL. For results $<$ RL, an advisory criterion of 1xRL was applied to evaluate the concentration differences. The RPD (or concentration difference) values and data qualification for detected compounds in field duplicate pairs are presented as follows:

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
			EA-MW-13A-N-01072025	EA-MW-13A-FD-01072025			
PFBA	ng/L	3.4	4.1	3.8	8%		
PFBS	ng/L	1.7	5.3	5.4	2%		
PFDA	ng/L	1.7	1.3	1.2		0.1	
PFDoA	ng/L	1.7	0.97	0.84		0.13	
PFDS	ng/L	1.7	0.52	0.43		0.09	
PFHpA	ng/L	1.7	3.2	3	6%		
PFHpS	ng/L	1.7	4.3	4.1	5%		
PFHxA	ng/L	1.7	17	16	6%		
PFHxS	ng/L	1.7	160	160	0%		
PFNA	ng/L	1.7	0.82	0.68		0.14	
PFNS	ng/L	1.7	0.88	0.78		0.1	
PFOA	ng/L	1.7	19	17	11%		
PFOS	ng/L	1.7	130	130	0%		
PFOSA	ng/L	1.7	1.3	1.3		0	
PFPeA	ng/L	1.7	4.8	4.8	0%		
PFPeS	ng/L	1.7	8.8	8.7	1%		
			EA-MW-5A-N-01082025	EA-MW-5A-FD-01082025			
PFOS	ng/L	1.7	0.46	0.44		0.02	
			GCF-MW-12A-N-01142025	GCF-MW-12A-FD-01142025			
PFBA	ng/L	3.2	3.6	3.5	3%		
PFBS	ng/L	1.6	4.5	4.5	0%		
PFHpA	ng/L	1.6	3.2	3.5	9%		
PFHpS	ng/L	1.6	0.74	0.82		0.08	
PFHxA	ng/L	1.6	8.2	9.3	13%		
PFHxS	ng/L	1.6	40	44	10%		
PFNA	ng/L	1.6	0.74	0.88		0.14	
PFOA	ng/L	1.6	16	14	13%		
PFOS	ng/L	1.6	28	28	0%		
PFPeA	ng/L	1.6	7.4	7.6	3%		
PFPeS	ng/L	1.6	2.6	3	14%		
			GCF-MW-5-N-01132025	GCF-MW-5-FD-01132025			

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
PFBA	ng/L	3.1	2.1	2.1		0	
PFBS	ng/L	1.6	1.7	1.8	6%		
PFDA	ng/L	1.6	0.57	0.46		0.11	
PFHpA	ng/L	1.6	0.44	<0.43		0.44	
PFHxS	ng/L	1.6	4.7	5.1	8%		
PFNA	ng/L	1.6	0.53	0.45		0.08	
PFOA	ng/L	1.6	1.7	1.3		0.4	
PFOS	ng/L	1.6	2.9	2.9	0%		
PFPeS	ng/L	1.6	0.49	0.43		0.06	
			GCF-MW-8-N-01172025	GCF-MW-8-FD-01172025			
PFBA	ng/L	3.4	0.96	0.98		0.02	
PFBS	ng/L	1.7	1.3	1.5		0.2	
PFHxA	ng/L	1.7	0.63	0.69		0.06	
PFHxS	ng/L	1.7	2.5	2.5	0%		
PFOA	ng/L	1.7	1.8	1.5		0.3	
PFOS	ng/L	1.7	2.5	2.6	4%		
PFPeA	ng/L	1.7	0.78	0.98		0.2	
			GDF-GR-2-N-01152025	GDF-GR-2-FD-01152025			
PFBA	ng/L	3.6	18	19	5%		
PFBS	ng/L	1.8	3.5	3.7	6%		
PFHpA	ng/L	1.8	2.7	2.4	12%		
PFHxA	ng/L	1.8	7.8	8.4	7%		
PFHxS	ng/L	1.8	1.4	1.4		0	
PFNA	ng/L	1.8	<0.45	0.46		0.46	
PFOA	ng/L	1.8	4.1	3.4	19%		
PFOS	ng/L	1.8	5.9	5.7	3%		
PFPeA	ng/L	1.8	7.8	8.9	13%		
			LA-MW-10-N-01062025	LA-MW-10-FD-01062025			
6:2 FTS	ng/L	3.4	<0.85	2.5		2.5	
PFBA	ng/L	3.4	42	37	13%		
PFBS	ng/L	1.7	2	1.8	11%		
PFHpA	ng/L	1.7	10	10	0%		
PFHxA	ng/L	1.7	180	180	0%		
PFHxS	ng/L	1.7	2.6	2.7	4%		
PFPeA	ng/L	1.7	160	170	6%		
PFPeS	ng/L	1.7	0.43	0.47		0.01	
			SWN-MW-5-N-01102025	SWN-MW-5-FD-01102025			
6:2 FTS	ng/L	3.5	3.3	3.1		0.2	
PFBA	ng/L	3.5	21	20	5%		
PFBS	ng/L	1.8	2.7	2.4	12%		
PFDA	ng/L	1.8	26	26	0%		

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
PFDoA	ng/L	1.8	0.56	<0.49		0.56	
PFHpA	ng/L	1.8	22	21	5%		
PFHpS	ng/L	1.8	0.99	0.97		0.02	
PFHxA	ng/L	1.8	51	53	4%		
PFHxS	ng/L	1.8	100	97	3%		
PFNA	ng/L	1.8	13	12	8%		
PFOA	ng/L	1.8	70	70	0%		
PFOS	ng/L	1.8	35	35	0%		
PFPeA	ng/L	1.8	48	46	4%		
PFPeS	ng/L	1.8	3	2.8	7%		
PFUnDA	ng/L	1.8	1.3	1.2		0.1	
			SWN-MW-7-N-01092025	SWN-MW-7-FD-01092025			
PFBA	ng/L	3.4	9	8.9	1%		
PFBS	ng/L	1.7	3.5	3.4	3%		
PFDA	ng/L	1.7	5.5	6.1	10%		
PFHpA	ng/L	1.7	8.7	11	23%		
PFHpS	ng/L	1.7	0.73	0.75		0.02	
PFHxA	ng/L	1.7	18	21	15%		
PFHxS	ng/L	1.7	32	34	6%		
PFNA	ng/L	1.7	4.5	4.1	9%		
PFOA	ng/L	1.7	33	32	3%		
PFOS	ng/L	1.7	23	22	4%		
PFPeA	ng/L	1.7	20	23	14%		
PFPeS	ng/L	1.7	3.3	3	10%		

Notes:

ND – The analyte was not detected at or above the method detection limit (MDL).

RL – Reporting limit

RPD – Relative percent difference

ng/L – nanogram per liter

IV. DATA VALIDATION SUMMARY

1. Data Qualification

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
FB-01142025	320-118344-10	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GDF-GR-2-N-01152025	320-118344-11	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GDF-GR-2-FD-01152025	320-118344-12	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GDF-GR-3-N-01152025	320-118344-13	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GDF-GR-4-N-01152025	320-118344-14	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
EB-01152025	320-118344-15	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
FB-01152025	320-118344-16	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GDF-GR-5-N-01142025	320-118344-2	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GCF-MW-11A-N-01142025	320-118344-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GCF-MW-12A-N-01142025	320-118344-4	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GCF-MW-12A-FD-01142025	320-118344-5	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GCF-MW-12B-N-01142025	320-118344-6	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GDF-MW-10A-N-01142025	320-118344-7	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
GDF-MW-10R-N-01142025	320-118344-8	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
EB-01142025	320-118344-9	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
EA-MW-8B-N-01142025	320-118344-1	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
FB-01082025	320-118205-1	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
EA-MW-8A-N-01082025	320-118205-3	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
EB-1-01082025	320-118205-5	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-7-N-01092025	320-118256-1	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-1-N-01092025	320-118256-11	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-2-N-01092025	320-118256-12	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
EB-2-01092025	320-118256-13	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
FB-01092025	320-118256-14	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-5-N-01102025	320-118256-15	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
PD-MW-1A-N-01102025	320-118256-16	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
GDF-GR-8-N-01102025	320-118256-17	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
GDF-GR-7D-N-01102025	320-118256-18	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
GDF-GR-7S-N-01102025	320-118256-19	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-7-FD-01092025	320-118256-2	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
EB-1-01102025	320-118256-20	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
EB-2-01102025	320-118256-21	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
FB-01102025	320-118256-22	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-5-FD-01102025	320-118256-23	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-14-N-01092025	320-118256-5	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-13-N-01092025	320-118256-6	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
FGF-MW-18-N-01092025	320-118256-7	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
EB-1-01092025	320-118256-8	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
SWN-MW-A-N-01092025	320-118256-9	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	CCH
FB-01082025	320-118205-1	Perfluorododecanesulfonic acid	UJ	CCH
EA-MW-8A-N-01082025	320-118205-3	Perfluorododecanesulfonic acid	UJ	CCH
EB-1-01082025	320-118205-5	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-7-N-01092025	320-118256-1	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-1-N-01092025	320-118256-11	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-2-N-01092025	320-118256-12	Perfluorododecanesulfonic acid	UJ	CCH
EB-2-01092025	320-118256-13	Perfluorododecanesulfonic acid	UJ	CCH
FB-01092025	320-118256-14	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-5-N-01102025	320-118256-15	Perfluorododecanesulfonic acid	UJ	CCH
PD-MW-1A-N-01102025	320-118256-16	Perfluorododecanesulfonic acid	UJ	CCH
GDF-GR-8-N-01102025	320-118256-17	Perfluorododecanesulfonic acid	UJ	CCH
GDF-GR-7D-N-01102025	320-118256-18	Perfluorododecanesulfonic acid	UJ	CCH
GDF-GR-7S-N-01102025	320-118256-19	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-7-FD-01092025	320-118256-2	Perfluorododecanesulfonic acid	UJ	CCH
EB-1-01102025	320-118256-20	Perfluorododecanesulfonic acid	UJ	CCH
EB-2-01102025	320-118256-21	Perfluorododecanesulfonic acid	UJ	CCH
FB-01102025	320-118256-22	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-5-FD-01102025	320-118256-23	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-14-N-01092025	320-118256-5	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-13-N-01092025	320-118256-6	Perfluorododecanesulfonic acid	UJ	CCH
FGF-MW-18-N-01092025	320-118256-7	Perfluorododecanesulfonic acid	UJ	CCH
EB-1-01092025	320-118256-8	Perfluorododecanesulfonic acid	UJ	CCH
SWN-MW-A-N-01092025	320-118256-9	Perfluorododecanesulfonic acid	UJ	CCH
LA-MW-11-N-01062025	320-118123-6	Perfluorohexanesulfonic acid	1.6 U	FB
W-MW-17-N-01062025	320-118123-7	Perfluorohexanesulfonic acid	1.7 U	FB
LA-MW-8-N-01062025	320-118123-1	Perfluorooctanesulfonic acid	J+	FB
LA-MW-9-N-01062025	320-118123-4	Perfluorooctanesulfonic acid	J+	FB
LA-MW-11-N-01062025	320-118123-6	Perfluorooctanesulfonic acid	J+	FB
W-MW-17-N-01062025	320-118123-7	Perfluorooctanesulfonic acid	J+	FB
LA-MW-12-N-01062025	320-118123-5	Perfluorooctanesulfonic acid	J+	FB, IRH
GDF-GR-7S-N-01102025	320-118256-19	Perfluorobutanesulfonic acid	J	ISH
EA-MW-8B-N-01142025	320-118344-1	Perfluoroheptanesulfonic acid	J	ISH
GCF-MW-5-N-01132025	320-118263-4	Perfluorononanoic acid	J	ISH
GCF-MW-7-N-01132025	320-118263-7	Perfluorononanoic acid	J	ISH
GDF-GR-8-N-01102025	320-118256-17	Perfluorooctanesulfonic acid	J	ISH
GDF-MW-10R-N-01142025	320-118344-8	Perfluorooctanesulfonic acid	J	ISH
GCF-MW-8-N-01172025	320-118376-2	Perfluorooctanesulfonic acid	J	ISH
SWN-MW-A-N-01092025	320-118256-9	Perfluoropentanoic acid	J	ISL
LA-MW-8-N-01062025	320-118123-1	Perfluorobutanesulfonic acid	J+	MB

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
LA-MW-10-N-01062025	320-118123-2	Perfluorobutanesulfonic acid	J+	MB
LA-MW-10-FD-01062025	320-118123-3	Perfluorobutanesulfonic acid	J+	MB
W-MW-17-N-01062025	320-118123-7	Perfluorobutanesulfonic acid	J+	MB

Notes:

“U” – The result was qualified as non-detected at or above the associated number; the unit is in ng/L.

CCH – Continuing calibration verification recovery biased high.

MB – The result was affected by the detection of the analyte in method blank.

FB – The result was affected by the detection of the analyte in field blank.

ISH – The transition ion abundance ratio biased high.

ISL – The transition ion abundance ratio biased high.

2. Data Qualifier Definition

Data Qualifier	Definition
J	The analyte was detected above the reported quantitation limit, and the reported concentration was an estimated value with an unknown bias.
J+	The analyte was detected above the reported quantitation limit, and the reported concentration was an estimated value with a high bias.
U	The analyte was not detected at or above the reported detection limit.
UJ	The analyte is not detected above the sample specific detection limit (DL), and the DL was an estimated value.
R	Exclusion of the data was recommended.

V. REFERENCES

- United States Environmental Protection Agency (USEPA). 2024. *Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS*. Office of Water. January 2024. EPA 821-R-24-001
- USEPA. 2020. *Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review*. Office of Superfund Remediation and Technical Innovation. November 2020. OLEM 9240.0-51. EPA-540-R-20-005.
- Department of Defense, United States (DoD). 2022. *Data Validation Guidelines Module 6: Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24*. Environmental Data Quality Workgroup. November 2022.
- GSI Environmental, Inc. 2024. *Initial PFAS Investigation Work Plan, Spokane International Airport, Spokane, Washington*. Appendix B – Quality Assurance Project Plan. Prepared for Port of Seattle. December 13, 2024.

Data Validation Report

Initial PFAS Investigation Spokane International Airport Spokane, WA

Soil Sampling 2025
Part 1

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Acronyms

%R	percent recovery
%RSD	percent relative standard deviation
%RSE	percent relative Standard error
amu	atomic mass unit
CCB	continuing calibration blank
CCV	continuing calibration verification
CCVL	low-level (at or below reporting limit) continuing calibration verification
CLP	U.S. EPA Contract Laboratory Program
COC	chain-of-custody
DoD	U.S. Department of Defense
DQO	data quality objective
EIS	extracted internal standard
EPA	U.S. Environmental Protection Agency
ICAL	initial calibration
ICB	initial calibration blank
ICV	initial calibration verification
ISC	instrument sensitivity check
LC/MS-MS	liquid chromatography with tandem mass spectrometry
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LLOPR	low-level ongoing precision and recovery
MS	matrix spike
MSD	matrix spike duplicate
NEtFOSA	N-ethyl perfluorooctanesulfonamide
NEtFOSE	N-ethyl perfluorooctanesulfonamidoethanol
ng/L	nanogram per liter
NMeFOSA	N-methyl perfluorooctanesulfonamide
NMeFOSE	N-methyl perfluorooctane sulfonamidoethanol
NIS	non-extracted internal standard
OPR	ongoing precision and recovery
PFAS	per- and polyfluoroalkyl substances
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid

QA/QC	quality assurance/quality control
RF	response factor
RPD	relative percent difference
RT	retention time
SDG	sample delivery group
S/N	signal-noise ratio
TCDA	taurochenodeoxycholic acid
TDCA	taurodeoxycholic acid
TUDCA	tauroursodeoxycholic acid

I. INTRODUCTION

This report presents and discusses findings of the chemical data quality review performed on analytical data associated with the soil and water samples collected in January 2025 for the referenced project. Sample analyses were performed by Eurofins Environment Testing America in West Sacramento, California (Eurofins). Sample results were reported in seven sample delivery groups (SDGs), assigned Eurofins Job Numbers: 320-118375-1, 320-118375-2, 320-118375-3, 320-118375-4, 320-118375-5, 320-118375-6, 320-118378-1, 320-118378-2, 320-118378-3, 320-118378-4, 320-118378-5, and 320-118378-1.

The data validation procedures followed the documents below as guidelines:

- United States Environmental Protection Agency (USEPA) *Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review*. Office of Superfund Remediation and Technical Innovation. November 2020. OLEM 9240.0-51. EPA-540-R-20-005.
- United States Department of Defense (DoD) *Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24*. Environmental Data Quality Workgroup. November 1, 2022.

A Stage 4 (as defined in DoD 2022) validation was performed on 10 percent of the data and a Stage 2B on the remaining data. Instrument calibration, calibration verification, and analytical sequence requirements were checked against the analytical method (EPA Method 1633). Quality control components were evaluated against the data quality objectives (DQOs) specified in the Quality Assurance Project Plan ([QAPP], GSI 2024) and the laboratory in-house performance-based control criteria (laboratory control limits).

Data validation findings are discussed in **Section II – Data Quality Review Findings**, pertinent to the QC parameters for each type of analysis. Field duplicate evaluation is presented in **Section III**. Qualified data along with data qualifiers, qualification reasons, and qualifier definitions are presented in **Section IV - Data Quality Review Summary**. Samples and the associated analyses validated herein are summarized as follows:

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
LA-MW-8-N-01062025	320-118123-1	01/06/25	GW	X
LA-MW-10-N-01062025	320-118123-2	01/06/25	GW	X
LA-MW-10-FD-01062025	320-118123-3	01/06/25	FD	X
LA-MW-9-N-01062025	320-118123-4	01/06/25	GW	X
LA-MW-12-N-01062025	320-118123-5	01/06/25	GW	X
LA-MW-11-N-01062025	320-118123-6	01/06/25	GW	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
W-MW-17-N-01062025	320-118123-7	01/06/25	GW	X
FB-01062025	320-118123-8	01/06/25	FB	X
JTA-004-N-S000-01162025	320-118375-11	01/16/25	Soil	
JTA-004-N-S001-01162025	320-118375-12	01/16/25	Soil	X
JTA-004-N-S003-01162025	320-118375-13	01/16/25	Soil	X
JTA-004-FD-S003-01162025	320-118375-14	01/16/25	Soil	X
JTA-004-N-S006-01162025	320-118375-15	01/16/25	Soil	X
JTA-004-N-S010-01162025	320-118375-16	01/16/25	Soil	X
JTA-005-N-S000-01162025	320-118375-20	01/16/25	Soil	X
JTA-005-N-S001-01162025	320-118375-21	01/16/25	Soil	X
JTA-005-N-S003-01162025	320-118375-22	01/16/25	Soil	X
JTA-005-FD-S003-01162025	320-118375-23	01/16/25	Soil	X
JTA-005-N-S006-01162025	320-118375-24	01/16/25	Soil	X
JTA-005-N-S010-01162025	320-118375-25	01/16/25	Soil	X
JTA-005-N-S015-01162025	320-118375-26	01/16/25	Soil	X
JTA-005-N-S017-01162025	320-118375-27	01/16/25	Soil	X
JTA-005-N-S025-01162025	320-118375-28	01/16/25	Soil	X
JTA-006-N-S000-01162025	320-118375-29	01/16/25	Soil	X
JTA-003-N-S000-01162025	320-118375-3	01/16/25	Soil	X
JTA-006-N-S001-01162025	320-118375-30	01/16/25	Soil	X
JTA-006-FD-S001-01162025	320-118375-31	01/16/25	FD	X
JTA-006-N-S003-01162025	320-118375-32	01/16/25	Soil	X
JTA-006-N-S006-01162025	320-118375-33	01/16/25	Soil	X
JTA-006-N-S010-01162025	320-118375-34	01/16/25	Soil	X
EB-01162025	320-118375-38	01/16/25	EB	X
FB-01162025	320-118375-39	01/16/25	FB	X
JTA-003-N-S001-01162025	320-118375-4	01/16/25	Soil	X
JTA-003-N-S003-01162025	320-118375-5	01/16/25	Soil	X
JTA-003-N-S006-01162025	320-118375-6	01/16/25	Soil	X
JTA-003-N-S010-01162025	320-118375-7	01/16/25	Soil	X
LTA-001-N-S000-01152025	320-118378-1	01/15/25	Soil	X
LTA-002-N-S003-01152025	320-118378-10	01/15/25	Soil	X
LTA-002-N-S006-01152025	320-118378-11	01/15/25	Soil	X
LTA-003-N-S000-01152025	320-118378-13	01/15/25	Soil	X
LTA-003-N-S001-01152025	320-118378-14	01/15/25	Soil	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
LTA-003-N-S003-01152025	320-118378-15	01/15/25	Soil	X
LTA-001-N-S001-01152025	320-118378-2	01/15/25	Soil	X
LTA-003-FD-S001-01152025	320-118378-20	01/15/25	Soil	X
JTA-001-N-S000-01152025	320-118378-21	01/15/25	Soil	X
JTA-001-N-S001-01152025	320-118378-22	01/15/25	Soil	X
JTA-001-N-S003-01152025	320-118378-23	01/15/25	Soil	X
LTA-001-N-S003-01152025	320-118378-3	01/15/25	Soil	X
JTA-002-N-S000-01152025	320-118378-30	01/15/25	Soil	X
JTA-002-N-S001-01152025	320-118378-31	01/15/25	Soil	X
JTA-002-N-S003-01152025	320-118378-32	01/15/25	Soil	X
JTA-002-FD-S003-01152025	320-118378-33	01/15/25	Soil	X
JTA-002-N-S006-01152025	320-118378-34	01/15/25	Soil	X
JTA-002-N-S010-01152025	320-118378-35	01/15/25	Soil	X
JTA-002-N-S015-01152025	320-118378-36	01/15/25	Soil	X
JTA-002-N-S020-01152025	320-118378-37	01/15/25	Soil	X
JTA-002-N-S025-01152025	320-118378-38	01/15/25	Soil	X
EB-01152025	320-118378-40	01/15/25	EB	X
HDW01152025	320-118378-41	01/15/25	Water	X
FB-01152025	320-118378-42	01/15/25	FB	X
LTA-002-N-S000-01152025	320-118378-8	01/15/25	Soil	X
LTA-002-N-S001-01152025	320-118378-9	01/15/25	Soil	X

Notes:

X: The analysis was requested and performed on the sample.

PFAS: Project specific per- and polyfluoroalkyl substances, including 40 target compounds.

EB – Equipment rinsate blank

FB – Field blank

FD – Field duplicate

The analytical parameters requested for the samples, the respective analytical methods, and the analytical laboratories are summarized below:

Parameter	Analytical Method	Analytical Laboratory
Per- and Polyfluoroalkyl Substances (PFAS)	EPA Method 1633	Eurofins Environment Testing America West Sacramento, California

Note: EPA Method 1633: *Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS*. USEPA, Office of Water. January 2024. EPA 821-R-24-001.

II. DATA VALIDATION FINDINGS

1. Sample Custody, Preservation, and Analysis Completeness

Sample custody was maintained and documented as required from the sample collection to the receipt at the laboratory (Eurofins Sacramento). Samples were properly preserved, cooler temperatures were maintained at $<6^{\circ}\text{C}$ across the course of transit, and sample counts were consistent with the accompanying chain-of-custody (COC) documentation. All analyses requested in the COC forms were completed.

2. Per- and Polyfluoroalkyl Substances ([PFAS]; EPA Method 1633)

2.1 Holding Times

The Work Plan calls for water samples to be extracted within 28 days of collection and soil samples should be extracted within 90 days of collection. Extracts should be analyzed within 90 days of extraction. All samples were extracted and analyzed within the project required holding times, except that samples JTA-005-N-S025-01162025 and JTA-002-N-S025-01152025 were extracted past the project required holding time. Target analytes were not detected in these samples; results for all target analytes were qualified (UJ).

2.2 Mass Calibration and Verification

Mass calibration was subjected to the laboratory standard operation procedures following instrument manufacturer's requirements.

To evaluate the mass verification, the first level standard from the initial calibration curve is used to evaluate the tune stability on an ongoing basis. The instrument mass windows are set initially at ± 0.5 amu of the true value; therefore, continued detection of the analyte transition with $S/N > 10$ serves as verification that the assigned mass remains within ± 0.5 amu of the true value. No anomalies were identified in relation to instrument tuning.

2.3 Initial Calibration (ICAL)

The following criteria were applied to ICAL evaluation:

- (1) A minimum of five standards should be used when using average response factor and/or linear calibration fits; a minimum of six analytical standards were to be used when a quadratic fit is used to generate the ICAL curve.
- (2) For average response factors (RFs), the relative standard deviation (%RSD) or percent relative standard error (%RSE) values for all compounds and internal standards must be $\leq 20\%$.
- (3) Immediately following the ICAL, a calibration blank (ICB) should be analyzed; ICB should consist of blank methanol/water containing all EIS and NIS compounds.

- (4) Following the ICB, an initial calibration verification (ICV) standard at the mid-point level of the ICAL and obtained from a source different than the ICAL standards should be analyzed. The %R values for target compounds and internal standards must be within or equal to 70-130% of true values.

The ICALs met the criteria.

2.4 Continuing Calibration Verification (CCV)

The following criteria were applied to evaluate CCVs:

- (1) A CCV containing all target compounds and internal standards at the mid-level of ICAL should be analyzed at the beginning of every analytical sequence prior to sample analysis, after every 10 samples, and at the end of the analytical sequence.
- (2) An Instrument Sensitivity Check (ISC), named as low-level CCV (CCVL) by the laboratory, at or below the reporting limit (RL) should be analyzed at the beginning of an analytical sequence.
- (3) The recovery for the CCV and CCVL must be within 70-130% of the true value for all target analytes.
- (4) A bile salts interference check standard consisting of TDCA (if acetonitrile is used as mobile phase), or TDCA, TCDA, and TUDCA (if alternative mobile phase is used) was analyzed daily, prior to analysis of samples. The peak separation between retention time of the bile salts and the retention time window of PFOS must be greater than 1 minute.
- (5) A Qualitative Identification Standard (QIS) containing a mixture of the branched and linear isomers of PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE was analyzed daily, prior to analysis of all samples.

CCV requirements were met, except for the following:

CCV ID	Analyte	%D	Control Limit	Bias	Affected Sample	Data Qualifier
CCVL 320-829454/4 01/25/25 04:04	PFTeDA	-32.6%	±30%	Low	EB-01162025 FB-01162025	UJ
CCVL 320-845716/2 04/11/25 09:04	NFDHA	49.6%	±30%	High	JTA-005-N-S017-01162025 JTA-002-N-S020-01152025	UJ
CCVL 320-856044/3 06/06/25 18:45	PFTeDA	33.9%	±30%	High	JTA-005-N-S025-01162025 JTA-002-N-S025-01152025	UJ

CCV ID	Analyte	%D	Control Limit	Bias	Affected Sample	Data Qualifier
CCVL 320-829312/4 01/24/25 08:21	11CL-PF3OUDS	32.7%	±30%	High	LTA-002-N-S003-01152025 LTA-003-N-S001-01152025 LTA-003-N-S003-01152025 LTA-001-N-S001-01152025 LTA-003-FD-S001-01152025 JTA-001-N-S001-01152025 JTA-001-N-S003-01152025 LTA-001-N-S003-01152025 JTA-002-N-S001-01152025 JTA-002-N-S003-01152025 JTA-002-FD-S003-01152025 LTA-002-N-S001-01152025	UJ

2.5 Blanks

ICB and CCB: ICBs and CCBs were analyzed as required by the Method. Target analytes were either not detected in ICBs and CCB at or above the method detection limits (MDLs), or the associated sample concentrations were greater than 5X the detections ICBs/CCBs. No data qualifying action was required.

Method Blanks: Method blanks were prepared and analyzed as required by the Method. Target analytes were not detected at or above the MDLs.

Field Blanks: Two field blanks were collected. Target analytes were not detected at or above the MDLs.

Equipment Rinsate Blanks: Three equipment rinsate blanks were collected. Target analytes were not detected at or above the MDLs in these samples.

2.6 Ongoing Precision and Recovery (OPR) and Low-Level OPR (LLOPR)

OPR and LLOPR (named as LCS and LLCS by the laboratory) analyses were performed as required by the Method. A set of LCS and LCS duplicate (LCS D) were prepared and analyzed in association with project samples. All %R and RPD values either met the laboratory control limits, or the outlier had no adverse effects on data quality (*e.g.*, biased high %R or RPD value for an analyte that was not detected in associated samples).

2.7 Extracted Internal Standard [EIS]

Proper EIS (named as surrogate spike) compounds were to be added to all samples and QC analyses as required by the Method. The EIS retention times for all field and QC samples should be within 0.40 minutes of the retention time of the midpoint standard in the ICAL, or on days when an ICAL is not performed, the initial CV is used. Analytes calibrated using isotope dilution

(i.e., those with corresponding isotopically labeled analogs) should elute within \pm 0.1 minutes of their associated EIS. RTs met the Method requirement.

EIS retention time and recovery met the criteria, except that recovery for selected EIS in few samples was outside the laboratory control criteria, but $>10\%$ and $<200\%$ of the associated CCVs. As per DoD Data Validation Guidelines, Module 6, detects for analytes quantitated using an EIS percent recovery $>200\%$ should be qualified estimated with a negative bias (J-) and non-detects should not be qualified. If the EIS recovery is $<10\%$, associated detects and non-detects should be qualified (R) and rejected. No data qualifying action was required in this manner.

In cases where EIS recovery was outside the laboratory criteria in QC analyses (e.g., method blanks and LCS), the effects on associated field sample results were evaluated and data qualified as appropriate. No data action was taken in these cases.

2.8 Non-extracted Internal Standard [NIS]

NIS compounds (named as internal standard by the laboratory) should be added to samples and QC analyses. NIS response peak areas must be $\geq 30\%$ of the average area of the corresponding NIS in the calibration standards. The NIS retention times for all field and QC samples should be within 0.40 minutes of the retention time of the midpoint standard in the ICAL, or on days when an ICAL is not performed, the initial CV is used. All NIS response and RTs met the Method control criteria, except that selected NIS recovery was less than 30% due to required extract dilutions. The %R values for the associated EIS compounds were within control criteria for target compound(s) reported from the dilution analyses. No data qualifying action was required.

2.9 Matrix Spike and Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were not performed on a project sample in these SDGs. The method applies isotope dilution technique, which generally precludes sample matrix effects. No further action was taken in this case.

2.10 Field Duplicates

Two field duplicates were collected and submitted for PFAS analysis. The RPD and concentration difference values and data qualification for detected target analytes were presented in **Section III**. The field duplicate results met the project field precision criteria.

2.11 Compound Quantitation and Detection Limits

Project target PFAS containing linear and branch isomers (e.g., PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE) were properly integrated and quantitated. Manual integration was performed properly and consistently across calibration and sample analyses.

Sample-specific MDLs and RLs were adjusted with sample amount extracted. RLs were supported with adequate initial calibration concentrations. The reported MDLs and RLs were consistent with those listed in the QAPP, Table 12, as applicable.

In cases where an analyte concentration exceeded instrument calibration range, dilution analysis was performed for the analyte for definitive quantitation of the analyte.

Due to substantial matrix interference, less than normal sample aliquots were used for selected samples. The MDLs and RLs were raised accordingly.

Samples LTA-002-N-S000-01152025 (320-118378-8) exhibited matrix interferences for PFBS, causing elevation of the reporting limit for this compound.

Verification calculations were performed on more than 10% of the instrument calibration, calibration verifications, standard concentrations, and reported QC and sample analyses. No anomalies were found. Sample quantitation and reporting were correctly performed.

2.12 Target Compound Identification

Target compound identification is evaluated by examining if:

- (1) The transition ions specified in the SOP were monitored consistently across the course of calibration and sample analyses.
- (2) The relative RT for an analyte to the corresponding labeled internal standard should be within ± 0.1 minute.
- (3) S/N signal for both quantitative and qualitative transition ions must be ≥ 3 .
- (4) Transition ion abundance ratio should be within 50 – 150% of the ICV if analyzed immediately following the ICAL or the most recent CCV standard.

No anomalies were found in relation to target compound identification, except that transition ion abundance ratios for selected detections were outside the control limits as qualified below:

Sample ID	Lab Sample ID	Analyte	Sample Ion Ratio	CCV Ion Ratio	Control Limit	Data Qualifier
JTA-006-N-S001-01162025	320-118375-30	PFHxA	19.981	12.798	6.40 - 19.20	J
JTA-002-N-S006-01152025	320-118378-34	PFOS	6.224	4.144	2.07 - 6.22	J

2.13 System Performance

The system performance and stability over an analytical sequence was evaluated by examining chromatograms for abrupt baseline shifting, excessive baseline rise at elevated temperature, progressing peak tailing, or loss of resolution. In addition, the internal standard retention times and response areas were checked for trends of shifting. No anomalies were observed.

2.14 Overall Assessment of PFAS Data Usability

PFAS data are acceptable for use as qualified, based on the information submitted by the laboratory. Qualified data are summarized in **Section IV-1**.

III. FIELD DUPLICATE SUMMARY

According to the QAPP, a criterion of 30 percent was applied to evaluate the RPD values of field duplicate results \geq RL. For results $<$ RL, an advisory criterion of 1xRL was applied to evaluate the concentration differences. The RPD (or concentration difference) values and data qualification for detected compounds in field duplicate pairs are presented as follows:

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
			JTA-004-N-S003-01162025	JTA-004-FD-S003-01162025			
PFHxS	µg/kg	0.2	0.28	0.16		0	
PFHxA	µg/kg	0.2	0.056	ND		0.056	
PFOS	µg/kg	0.2	0.066	ND		0.066	
			JTA-002-N-S003-01152025	JTA-002-FD-S003-01152025			
PFHxS	µg/kg	0.2	0.063	0.063		0	
PFOS	µg/kg	2	38	34	11%		

Notes:

ND – The analyte was not detected at or above the method detection limit (MDL).

RL – Reporting limit

RPD – Relative percent difference

µg/kg – micrograms per kilogram

IV. DATA VALIDATION SUMMARY

1. Data Qualification

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
JTA-005-N-S017-01162025	320-118375-27	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
JTA-005-N-S025-01162025	320-118375-28	Perfluorotetradecanoic acid	UJ	CCH
LTA-002-N-S003-01152025	320-118378-10	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
LTA-003-N-S001-01152025	320-118378-14	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
LTA-003-N-S003-01152025	320-118378-15	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
LTA-001-N-S001-01152025	320-118378-2	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
LTA-003-FD-S001-01152025	320-118378-20	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
JTA-001-N-S001-01152025	320-118378-22	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
JTA-001-N-S003-01152025	320-118378-23	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
LTA-001-N-S003-01152025	320-118378-3	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
JTA-002-N-S001-01152025	320-118378-31	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
JTA-002-N-S003-01152025	320-118378-32	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
JTA-002-FD-S003-01152025	320-118378-33	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
JTA-002-N-S020-01152025	320-118378-37	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
LTA-002-N-S001-01152025	320-118378-9	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	CCH
EB-01162025	320-118375-38	Perfluorotetradecanoic acid	UJ	CCL
FB-01162025	320-118375-39	Perfluorotetradecanoic acid	UJ	CCL
JTA-005-N-S025-01162025	320-118375-28	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	2-(N-Methylperfluorooctanesulfonamido)acetic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	2H,2H,3H,3H-Perfluorooctanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	3:3 Fluorotelomer carboxylic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	3-Perfluoroheptyl propanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	4,8-Dioxa-3h-perfluorononanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	4:2 Fluorotelomer sulfonate	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	6:2 Fluorotelomer sulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	8:2 Fluorotelomer sulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Hexafluoropropylene oxide dimer acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	N-ethylperfluoro-1-octanesulfonamide	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	N-ethylperfluorooctane sulfonamidoacetic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	N-methylperfluoro-1-octanesulfonamide	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Nonafluoro-3,6-dioxaheptanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluoro(4-methoxybutanoic) acid	UJ	HT

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
JTA-005-N-S025-01162025	320-118375-28	Perfluoro-3-methoxypropanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorobutanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorobutanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorodecanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorodecanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorododecanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorododecanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluoroheptanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluoroheptanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorohexanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorohexanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorononanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorononanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorooctanesulfonamide	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorooctanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorooctanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluoropentanesulfonic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluoropentanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluorotridecanoic acid	UJ	HT
JTA-005-N-S025-01162025	320-118375-28	Perfluoroundecanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	2-(N-Methylperfluorooctanesulfonamido)acetic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	2H,2H,3H,3H-Perfluorooctanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	3:3 Fluorotelomer carboxylic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	3-Perfluoroheptyl propanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	4,8-Dioxa-3h-perfluorononanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	4:2 Fluorotelomer sulfonate	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	6:2 Fluorotelomer sulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	8:2 Fluorotelomer sulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	9-Chlorohexadecafluoro-3-oxanone-1-sulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Hexafluoropropylene oxide dimer acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	N-Ethyl-N-(2-hydroxyethyl)perfluorooctylsulphonamide	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	N-ethylperfluoro-1-octanesulfonamide	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	N-ethylperfluorooctane sulfonamidoacetic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	N-methylperfluoro-1-octanesulfonamide	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Nonafluoro-3,6-dioxaheptanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluoro(2-ethoxyethane)sulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluoro(4-methoxybutanoic) acid	UJ	HT

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
JTA-002-N-S025-01152025	320-118378-38	Perfluoro-3-methoxypropanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorobutanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorobutanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorodecanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorodecanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorododecanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorododecanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluoroheptanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluoroheptanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorohexanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorohexanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorononanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorononanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorooctanesulfonamide	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorooctanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorooctanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluoropentanesulfonic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluoropentanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorotetradecanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluoroundecanoic acid	UJ	HT
JTA-002-N-S025-01152025	320-118378-38	Perfluorotridecanoic acid	UJ	HT, CCH
JTA-006-N-S001-01162025	320-118375-30	Perfluorohexanoic acid	J	IRH
JTA-002-N-S006-01152025	320-118378-34	Perfluorooctanesulfonic acid	J	IRH

Notes:

CCH – Continuing calibration verification recovery biased high.
 CCL – Continuing calibration verification recovery biased low.
 HT – Sample was extracted past project required holding time.
 IRH – The transition ion abundance ratio biased high.

2. Data Qualifier Definition

Data Qualifier	Definition
J	The analyte was detected above the reported quantitation limit, and the reported concentration was an estimated value with an unknown bias.
J+	The analyte was detected above the reported quantitation limit, and the reported concentration was an estimated value with a high bias.
U	The analyte was not detected at or above the reported detection limit.
UJ	The analyte is not detected above the sample specific detection limit (DL), and the DL was an estimated value.
R	Exclusion of the data was recommended.

V. REFERENCES

- United States Environmental Protection Agency (USEPA). 2024. *Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS*. Office of Water. January 2024. EPA 821-R-24-001
- USEPA. 2020. *Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review*. Office of Superfund Remediation and Technical Innovation. November 2020. OLEM 9240.0-51. EPA-540-R-20-005.
- Department of Defense, United States (DoD). 2022. *Data Validation Guidelines Module 6: Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24*. Environmental Data Quality Workgroup. November 2022.
- GSI Environmental, Inc. 2024. *Initial PFAS Investigation Work Plan*, Spokane International Airport, Spokane, Washington. Appendix B – Quality Assurance Project Plan. Prepared for Port of Seattle. December 13, 2024.

Data Validation Report

Initial PFAS Investigation Spokane International Airport Spokane, WA

Soil Sampling 2025
Part 2

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Acronyms

%R	percent recovery
%RSD	percent relative standard deviation
%RSE	percent relative Standard error
amu	atomic mass unit
CCB	continuing calibration blank
CCV	continuing calibration verification
CCVL	low-level (at or below reporting limit) continuing calibration verification
CLP	U.S. EPA Contract Laboratory Program
COC	chain-of-custody
DoD	U.S. Department of Defense
DQO	data quality objective
EIS	extracted internal standard
EPA	U.S. Environmental Protection Agency
ICAL	initial calibration
ICB	initial calibration blank
ICV	initial calibration verification
ISC	instrument sensitivity check
LC/MS-MS	liquid chromatography with tandem mass spectrometry
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
LLOPR	low-level ongoing precision and recovery
MS	matrix spike
MSD	matrix spike duplicate
NEtFOSA	N-ethyl perfluorooctanesulfonamide
NEtFOSE	N-ethyl perfluorooctanesulfonamidoethanol
ng/L	nanogram per liter
NMeFOSA	N-methyl perfluorooctanesulfonamide
NMeFOSE	N-methyl perfluorooctane sulfonamidoethanol
NIS	non-extracted internal standard
OPR	ongoing precision and recovery
PFAS	per- and polyfluoroalkyl substances
PFNA	Perfluorononanoic acid
PFOA	Perfluorooctanoic acid

QA/QC	quality assurance/quality control
RF	response factor
RPD	relative percent difference
RT	retention time
SDG	sample delivery group
S/N	signal-noise ratio
TCDA	taurochenodeoxycholic acid
TDCA	taurodeoxycholic acid
TUDCA	tauroursodeoxycholic acid

I. INTRODUCTION

This report presents and discusses findings of the chemical data quality review performed on analytical data associated with the soil and water samples collected in January 2025 for the referenced project. Sample analyses were performed by Eurofins Environment Testing America in West Sacramento, California (Eurofins). Sample results were reported in 28 sample delivery groups (SDGs), assigned Eurofins Job Numbers: 320-118424-1, 320-118424-2, 320-118424-3, 320-118424-4, 320-118424-5, 320-118499-1, 320-118499-2, 320-118511-1, 320-118511-2, 320-118511-3, 320-118511-4, 320-118551-1, 320-118551-2, 320-118551-3, 320-118551-4, 320-118553-1, 320-118553-2, 320-118553-3, 320-118553-4, 320-118632-1, 320-118632-2, 320-118632-3, 320-118635-1, 320-118635-2, 320-118635-3, 320-118635-4, 320-118638-1, and 320-118639-1.

The data validation procedures followed the documents below as guidelines:

- United States Environmental Protection Agency (USEPA) *Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review*. Office of Superfund Remediation and Technical Innovation. November 2020. OLEM 9240.0-51. EPA-540-R-20-005.
- United States Department of Defense (DoD) *Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24*. Environmental Data Quality Workgroup. November 1, 2022.

A Stage 4 (as defined in DoD 2022) validation was performed on 10 percent of the data and a Stage 2B on the remaining data. Instrument calibration, calibration verification, and analytical sequence requirements were checked against the analytical method (EPA Method 1633). Quality control components were evaluated against the data quality objectives (DQOs) specified in the Quality Assurance Project Plan ([QAPP], GSI 2024) and the laboratory in-house performance-based control criteria (laboratory control limits).

Data validation findings are discussed in **Section II – Data Quality Review Findings**, pertinent to the QC parameters for each type of analysis. Field duplicate evaluation is presented in **Section III**. Qualified data along with data qualifiers, qualification reasons, and qualifier definitions are presented in **Section IV - Data Quality Review Summary**. Samples and the associated analyses validated herein are summarized as follows:

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
JTA-007-N-S001-01172025	320-118424-2	01/17/25	Soil	X
JTA-007-N-S003-01172025	320-118424-3	01/17/25	Soil	X
JTA-007-FD-S003-01172025	320-118424-4	01/17/25	Soil	X
JTA-008-N-S001-01172025	320-118424-9	01/17/25	Soil	X
JTA-008-N-S003-01172025	320-118424-10	01/17/25	Soil	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
JTA-009-N-S001-01172025	320-118424-16	01/17/25	Soil	X
JTA-009-N-S003-01172025	320-118424-17	01/17/25	Soil	X
JTA-009-FD-S003-01172025	320-118424-18	01/17/25	Soil	X
RTA-003-N-S001-01172025	320-118424-25	01/17/25	Soil	X
RTA-003-N-S003-01172025	320-118424-26	01/17/25	Soil	X
RTA-003-FD-S003-01172025	320-118424-27	01/17/25	Soil	X
EB-01172025	320-118424-33	01/17/25	EB	X
FB-01172025	320-118424-34	01/17/25	FB	X
JTA-007-N-S000-01172025	320-118424-1	01/17/25	Soil	X
JTA-007-N-S006-01172025	320-118424-5	01/17/25	Soil	X
JTA-008-N-S000-01172025	320-118424-8	01/17/25	Soil	X
JTA-008-N-S006-01172025	320-118424-11	01/17/25	Soil	X
JTA-009-N-S000-01172025	320-118424-15	01/17/25	Soil	X
JTA-009-N-S006-01172025	320-118424-19	01/17/25	Soil	X
RTA-003-N-S000-01172025	320-118424-24	01/17/25	Soil	X
RTA-003-N-S006-01172025	320-118424-28	01/17/25	Soil	X
JTA-007-N-S010-01172025	320-118424-6	01/17/25	Soil	X
JTA-008-N-S010-01172025	320-118424-12	01/17/25	Soil	X
JTA-009-N-S010-01172025	320-118424-20	01/17/25	Soil	X
RTA-003-N-S010-01172025	320-118424-29	01/17/25	Soil	X
JTA-007-N-S013-01172025	320-118424-7	01/17/25	Soil	X
JTA-008-N-S015-01172025	320-118424-13	01/17/25	Soil	X
JTA-009-N-S015-01172025	320-118424-21	01/17/25	Soil	X
JTA-008-N-S017-01172025	320-118424-14	01/17/25	Soil	X
JTA-009-N-S020-01172025	320-118424-22	01/17/25	Soil	X
JTA-009-N-S030-01172025	320-118424-23	01/17/25	Soil	X
RTA-002-N-S001-01202025	320-118499-2	01/20/25	Soil	X
RTA-002-N-S003-01202025	320-118499-3	01/20/25	Soil	X
RTA-001-N-S001-01202025	320-118499-8	01/20/25	Soil	X
RTA-001-N-S003-01202025	320-118499-9	01/20/25	Soil	X
PDW-002-N-S001-01202025	320-118499-15	01/20/25	Soil	X
PDW-002-N-S003-01202025	320-118499-16	01/20/25	Soil	X
PDW-001-N-S001-01202025	320-118499-24	01/20/25	Soil	X
PDW-001-N-S003-01202025	320-118499-25	01/20/25	Soil	X
PDW-001-FD-S003-01202025	320-118499-26	01/20/25	Soil	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
EB-01202025	320-118499-34	01/20/25	EB	X
FB-01202025	320-118499-35	01/20/25	FB	X
RTA-002-N-S000-01202025	320-118499-1	01/20/25	Soil	X
RTA-002-N-S006-01202025	320-118499-4	01/20/25	Soil	X
PDW-002-N-S000-01202025	320-118499-14	01/20/25	Soil	X
PDW-002-N-S006-01202025	320-118499-17	01/20/25	Soil	X
PDW-001-N-S006-01202025	320-118499-27	01/20/25	Soil	X
FIT-002-N-S001-01212025	320-118511-2	01/21/25	Soil	X
FIT-002-N-S003-01212025	320-118511-3	01/21/25	Soil	X
FIT-001-N-S001-01212025	320-118511-8	01/21/25	Soil	X
FIT-001-N-S003-01212025	320-118511-9	01/21/25	Soil	X
FIT-001-FD-S003-01212025	320-118511-10	01/21/25	Soil	X
FIT-003-N-S001-01212025	320-118511-13	01/21/25	Soil	X
FIT-003-N-S003-01212025	320-118511-14	01/21/25	Soil	X
FIT-004-N-S001-01212025	320-118511-23	01/21/25	Soil	X
FIT-004-N-S003-01212025	320-118511-24	01/21/25	Soil	X
FIT-004-FD-S003-01212025	320-118511-25	01/21/25	Soil	X
SRA-003-N-S001-01212025	320-118511-31	01/21/25	Soil	X
SRA-003-N-S003-01212025	320-118511-32	01/21/25	Soil	X
SRA-004A-N-S001-01212025	320-118511-37	01/21/25	Soil	X
SRA-004A-FD-S001-01212025	320-118511-38	01/21/25	Soil	X
SRA-004A-N-S003-01212025	320-118511-39	01/21/25	Soil	X
SRA-006-N-S001-01212025	320-118511-45	01/21/25	Soil	X
EB-01212025	320-118511-47	01/21/25	EB	X
FB-01212025	320-118511-48	01/21/25	Soil	X
FIT-002-N-S000-01212025	320-118511-1	01/21/25	Soil	X
FIT-002-N-S006-01212025	320-118511-4	01/21/25	Soil	X
FIT-001-N-S000-01212025	320-118511-7	01/21/25	Soil	X
FIT-001-N-S005-01212025	320-118511-11	01/21/25	Soil	X
FIT-003-N-S000-01212025	320-118511-12	01/21/25	Soil	X
FIT-007-N-S000-01212025	320-118511-18	01/21/25	Soil	X
FIT-008-N-S000-01212025	320-118511-19	01/21/25	Soil	X
FIT-006-N-S000-01212025	320-118511-20	01/21/25	Soil	X
FIT-005-N-S000-01212025	320-118511-21	01/21/25	Soil	X
FIT-004-N-S000-01212025	320-118511-22	01/21/25	Soil	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
SRA-003-N-S000-01212025	320-118511-30	01/21/25	Soil	X
SRA-003-N-S006-01212025	320-118511-33	01/21/25	Soil	X
SRA-004A-N-S000-01212025	320-118511-36	01/21/25	Soil	X
SRA-004A-N-S006-01212025	320-118511-40	01/21/25	Soil	X
SRA-004B-N-S000-01212025	320-118511-41	01/21/25	Soil	X
SRA-007A-N-S006-01212025	320-118511-42	01/21/25	Soil	X
SRA-007B-N-S000-01212025	320-118511-43	01/21/25	Soil	X
SRA-006-N-S000-01212025	320-118511-44	01/21/25	Soil	X
FIT-002-N-S010-01212025	320-118511-5	01/21/25	Soil	X
SRA-003-N-S010-01212025	320-118511-34	01/21/25	Soil	X
SRA-006-N-S006-01212025	320-118511-46	01/21/25	Soil	X
SRA-003-N-S012-01212025	320-118511-35	01/21/25	Soil	X
FIT-002-N-S015-01212025	320-118511-6	01/21/25	Soil	X
SRA-010-N-S001-01222025	320-118551-11	01/22/25	Water	X
SRA-010-N-S003-01222025	320-118551-12	01/22/25	Water	X
SRA-010-FD-S003-01222025	320-118551-13	01/22/25	Water	X
SRA-011-N-S001-01222025	320-118551-18	01/22/25	Water	X
SRA-011-N-S003-01222025	320-118551-19	01/22/25	Water	X
SRA-005-N-S001-01222025	320-118551-2	01/22/25	Water	X
SRA-008-N-S001-01222025	320-118551-24	01/22/25	Water	X
SRA-008-FD-S001-01222025	320-118551-25	01/22/25	Water	X
SRA-008-N-S003-01222025	320-118551-26	01/22/25	Water	X
SRA-001-N-S001-01222025	320-118551-28	01/22/25	Water	X
SRA-001-N-S003-01222025	320-118551-29	01/22/25	Water	X
SRA-005-N-S003-01222025	320-118551-3	01/22/25	Water	X
HFH-001-N-S001-01222025	320-118551-32	01/22/25	Water	X
HFH-001-N-S003-01222025	320-118551-33	01/22/25	Water	X
HFH-001-FD-S003-01222025	320-118551-34	01/22/25	Water	X
SRA-002-N-S000-01222025	320-118551-36	01/22/25	Water	X
TRP-001-N-S000-01222025	320-118551-37	01/22/25	Water	X
TRP-002-N-S000-01222025	320-118551-38	01/22/25	Water	X
HFH-006-N-S000-01222025	320-118551-39	01/22/25	Water	X
EB-01222025	320-118551-40	01/22/25	EB	X
FB-01222025	320-118551-41	01/22/25	FB	X
SRA-009-N-S000-01222025	320-118551-9	01/22/25	Water	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
SRA-005-N-S000-01222025	320-118551-1	01/22/25	Soil	X
SRA-010-N-S000-01222025	320-118551-10	01/22/25	Soil	X
SRA-010-N-S006-01222025	320-118551-14	01/22/25	Soil	X
SRA-011-N-S000-01222025	320-118551-17	01/22/25	Soil	X
SRA-011-N-S006-01222025	320-118551-20	01/22/25	Soil	X
SRA-008-N-S000-01222025	320-118551-23	01/22/25	Soil	X
SRA-001-N-S000-01222025	320-118551-27	01/22/25	Soil	X
SRA-001-N-S006-01222025	320-118551-30	01/22/25	Soil	X
HFH-001-N-S000-01222025	320-118551-31	01/22/25	Soil	X
HFH-001-N-S006-01222025	320-118551-35	01/22/25	Soil	X
SRA-010-N-S010-01222025	320-118551-15	01/22/25	Soil	X
SRA-011-N-S010-01222025	320-118551-21	01/22/25	Soil	X
SRA-011-N-S014-01222025	320-118551-22	01/22/25	Soil	X
HFH-005-FD-S001-01232025	320-118553-10	01/23/25	Soil	X
HFH-005-N-S003-01232025	320-118553-11	01/23/25	Soil	X
HFH-003-N-S001-01232025	320-118553-15	01/23/25	Soil	X
HFH-003-N-S003-01232025	320-118553-16	01/23/25	Soil	X
HFH-003-N-S006-01232025	320-118553-17	01/23/25	Soil	X
HFH-003-FD-S006-01232025	320-118553-18	01/23/25	Soil	X
HFH-004-N-S001-01232025	320-118553-2	01/23/25	Soil	X
HFH-002-N-S001-01232025	320-118553-22	01/23/25	Soil	X
HFH-002-FD-S001-01232025	320-118553-23	01/23/25	Soil	X
HFH-002-N-S003-01232025	320-118553-24	01/23/25	Soil	X
FMB-004-N-S001-01232025	320-118553-29	01/23/25	Soil	X
HFH-004-N-S003-01232025	320-118553-3	01/23/25	Soil	X
FMB-004-N-S003-01232025	320-118553-30	01/23/25	Soil	X
FMB-004-N-S010-01232025	320-118553-32	01/23/25	Soil	X
FMB-004-FD-S010-01232025	320-118553-33	01/23/25	Soil	X
FMB-004-FD-S003-01232025	320-118553-34	01/23/25	Soil	X
HFH-004-FD-S003-01232025	320-118553-4	01/23/25	Soil	X
HFH-004-N-S010-01232025	320-118553-6	01/23/25	Soil	X
HFH-004-FD-S010-01232025	320-118553-7	01/23/25	Soil	X
HFH-005-N-S001-01232025	320-118553-9	01/23/25	Soil	X
HFH-004-N-S005-01232025	320-118553-1	01/23/25	Soil	X
HFH-005-N-S006-01232025	320-118553-12	01/23/25	Soil	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
HFH-003-N-S005-01232025	320-118553-14	01/23/25	Soil	X
HFH-003-N-S010-01232025	320-118553-19	01/23/25	Soil	X
HFH-002-N-S005-01232025	320-118553-21	01/23/25	Soil	X
HFH-002-N-S006-01232025	320-118553-25	01/23/25	Soil	X
FMB-004-N-S005-01232025	320-118553-28	01/23/25	Soil	X
FMB-004-N-S006-01232025	320-118553-31	01/23/25	Soil	X
HFH-004-N-S006-01232025	320-118553-5	01/23/25	Soil	X
HFH-005-N-S005-01232025	320-118553-8	01/23/25	Soil	X
HFH-005-N-S010-01232025	320-118553-13	01/23/25	Soil	X
HFH-003-N-S012-01232025	320-118553-20	01/23/25	Soil	X
HFH-002-N-S010-01232025	320-118553-26	01/23/25	Soil	X
HFH-002-N-S012-01232025	320-118553-27	01/23/25	Soil	X
FMB-001-N-S001-01272025	320-118632-2	01/27/25	Soil	X
FMB-001-FD-S001-01272025	320-118632-3	01/27/25	Soil	X
FMB-001-N-S003-01272025	320-118632-4	01/27/25	Soil	X
FMB-001-N-S0005-01272025	320-118632-1	01/27/25	Soil	X
FMB-001-N-S005-01272025	320-118632-6	01/27/25	Soil	X
FMB-001-N-S006-01272025	320-118632-5	01/27/25	Soil	X
FMB-002-N-S001-01242025	320-118635-10	01/24/25	Soil	X
FMB-002-N-S003-01242025	320-118635-11	01/24/25	Soil	X
CFH-007-N-S001-01242025	320-118635-16	01/24/25	Soil	X
CFH-007-FD-S001-01242025	320-118635-17	01/24/25	Soil	X
CFH-007-N-S003-01242025	320-118635-18	01/24/25	Soil	X
FMB-003-N-S001-01242025	320-118635-2	01/24/25	Soil	X
CFH-006-N-S001-01242025	320-118635-20	01/24/25	Soil	X
CFH-005-N-S001-01242025	320-118635-22	01/24/25	Soil	X
CFH-005-N-S003-01242025	320-118635-23	01/24/25	Soil	X
CFH-005-FD-S003-01242025	320-118635-24	01/24/25	Soil	X
CFH-004-N-S001-01242025	320-118635-27	01/24/25	Soil	X
CFH-004-N-S003-01242025	320-118635-28	01/24/25	Soil	X
FMB-003-FD-S001-01242025	320-118635-3	01/24/25	Soil	X
CFH-004-N-S010-01242025	320-118635-30	01/24/25	Soil	X
CFH-004-FD-S010-01242025	320-118635-31	01/24/25	Soil	X
CFH-003-N-S001-01242025	320-118635-34	01/24/25	Soil	X
CFH-003-N-S003-01242025	320-118635-35	01/24/25	Soil	X

Field Sample ID	Laboratory Sample ID	Sampling Date	Matrix	Analysis
				PFAS
CFH-003-N-S009-01242025	320-118635-37	01/24/25	Soil	X
CFH-003-FD-S009-01242025	320-118635-38	01/24/25	Soil	X
FMB-003-N-S003-01242025	320-118635-4	01/24/25	Soil	X
CFH-002-N-S001-01242025	320-118635-40	01/24/25	Soil	X
CFH-002-FD-S001-01242025	320-118635-41	01/24/25	Soil	X
CFH-002-N-S003-01242025	320-118635-42	01/24/25	Soil	X
CFH-001-N-S001-01242025	320-118635-47	01/24/25	Soil	X
CFH-001-N-S003-01242025	320-118635-48	01/24/25	Soil	X
CFH-006-N-S003-01242025	320-118635-52	01/24/25	Soil	X
FMB-003-N-S010-01242025	320-118635-6	01/24/25	Soil	X
FMB-003-FD-S010-01242025	320-118635-7	01/24/25	Soil	X
FMB-003-N-S0005-01242025	320-118635-1	01/24/25	Soil	X
FMB-002-N-S006-01242025	320-118635-12	01/24/25	Soil	X
CFH-007-N-S000-01242025	320-118635-15	01/24/25	Soil	X
CFH-006-N-S000-01242025	320-118635-19	01/24/25	Soil	X
CFH-005-N-S000-01242025	320-118635-21	01/24/25	Soil	X
CFH-004-N-S000-01242025	320-118635-26	01/24/25	Soil	X
CFH-004-N-S006-01242025	320-118635-29	01/24/25	Soil	X
CFH-004-N-S015-01242025	320-118635-32	01/24/25	Soil	X
CFH-003-N-S000-01242025	320-118635-33	01/24/25	Soil	X
CFH-003-N-S006-01242025	320-118635-36	01/24/25	Soil	X
CFH-002-N-S000-01242025	320-118635-39	01/24/25	Soil	X
CFH-001-N-S000-01242025	320-118635-46	01/24/25	Soil	X
CFH-001-N-S006-01242025	320-118635-49	01/24/25	Soil	X
FMB-003-N-S006-01242025	320-118635-5	01/24/25	Soil	X
FMB-003-N-S015-01242025	320-118635-8	01/24/25	Soil	X
FMB-002-N-S0005-01242025	320-118635-9	01/24/25	Soil	X
FMB-002-N-S010-01242025	320-118635-13	01/24/25	Soil	X
CFH-001-N-S010-01242025	320-118635-50	01/24/25	Soil	X
FMB-002-N-S013-01242025	320-118635-14	01/24/25	Soil	X
FB-01242025	320-118638-1	01/24/25	FB	X
FB-01272025	320-118639-1	01/27/25	FB	X
EB-01272025	320-118639-2	01/27/25	EB	X

Notes:

X: The analysis was requested and performed on the sample.

PFAS: Project specific per- and polyfluoroalkyl substances, including 40 target compounds.

EB – Equipment rinsate blank
FB – Field blank

The analytical parameters requested for the samples, the respective analytical methods, and the analytical laboratories are summarized below:

Parameter	Analytical Method	Analytical Laboratory
Per- and Polyfluoroalkyl Substances (PFAS)	EPA Method 1633	Eurofins Environment Testing America West Sacramento, California

Note: EPA Method 1633: *Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS*. USEPA, Office of Water. January 2024. EPA 821-R-24-001.

II. DATA VALIDATION FINDINGS

1. Sample Custody, Preservation, and Analysis Completeness

Sample custody was maintained and documented as required from the sample collection to the receipt at the laboratory (Eurofins Sacramento). Samples were properly preserved, cooler temperatures were maintained at $<6^{\circ}\text{C}$ across the course of transit, and sample counts were consistent with the accompanying chain-of-custody (COC) documentation. All analyses requested in the COC forms were completed.

2. Per- and Polyfluoroalkyl Substances ([PFAS]; EPA Method 1633)

2.1 Holding Times

The Work Plan calls for water samples to be extracted within 28 days of collection and soil sample extracted within 90 days of collection. Extracts should be analyzed within 90 days of extraction. All samples were extracted and analyzed within the project required holding times.

2.2 Mass Calibration and Verification

Mass calibration was subjected to the laboratory standard operation procedures following instrument manufacturer's requirements.

To evaluate the mass verification, the first level standard from the initial calibration curve is used to evaluate the tune stability on an ongoing basis. The instrument mass windows are set initially at ± 0.5 amu of the true value; therefore, continued detection of the analyte transition with $S/N > 10$ serves as verification that the assigned mass remains within ± 0.5 amu of the true value. No anomalies were identified in relation to instrument tuning.

2.3 Initial Calibration (ICAL)

The following criteria were applied to ICAL evaluation:

- (1) A minimum of five standards should be used when using average response factor and/or linear calibration fits; a minimum of six analytical standards were to be used when a quadratic fit is used to generate the ICAL curve.
- (2) For average response factors (RFs), the relative standard deviation (%RSD) or percent relative standard error (%RSE) values for all compounds and internal standards must be $\leq 20\%$.
- (3) Immediately following the ICAL, a calibration blank (ICB) should be analyzed; ICB should consist of blank methanol/water containing all EIS and NIS compounds.
- (4) Following the ICB, an initial calibration verification (ICV) standard at the mid-point level of the ICAL and obtained from a source different than the ICAL standards should be analyzed. The

%R values for target compounds and internal standards must be within or equal to 70-130% of true values.

The ICALs met the criteria.

2.4 Continuing Calibration Verification (CCV)

The following criteria were applied to evaluate CCVs:

- (1) A CCV containing all target compounds and internal standards at the mid-level of ICAL should be analyzed at the beginning of every analytical sequence prior to sample analysis, after every 10 samples, and at the end of the analytical sequence.
- (2) An Instrument Sensitivity Check (ISC), named as low-level CCV (CCVL) by the laboratory, at or below the reporting limit (RL) should be analyzed at the beginning of an analytical sequence.
- (3) The recovery for the CCV and CCVL must be within 70-130% of the true value for all target analytes.
- (4) A bile salts interference check standard consisting of TDCA (if acetonitrile is used as mobile phase), or TDCA, TCDA, and TUDCA (if alternative mobile phase is used) was analyzed daily, prior to analysis of samples. The peak separation between retention time of the bile salts and the retention time window of PFOS must be greater than 1 minute.
- (5) A Qualitative Identification Standard (QIS) containing a mixture of the branched and linear isomers of PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE was analyzed daily, prior to analysis of all samples.

CCV requirements were met, except for the following:

CCV ID	Analyte	%D	Control Limit	Bias	Affected Sample	Data Qualifier
CCVL 320-843420/2 04/01/25 01:42	PFPeA	48.2%	±30%	High	JTA-009-N-S015-01172025 SRA-003-N-S012-01212025 FIT-002-N-S015-01212025 SRA-011-N-S014-01222025 FMB-002-N-S013-01242025	UJ
CCVL 320-830993/4 02/04/25 10:39	NFDHA	42.1%	±30%	High	FIT-004-N-S003-01212025 FIT-004-FD-S003-01212025 SRA-003-N-S001-01212025 SRA-003-N-S003-01212025 SRA-004A-N-S001-01212025 SRA-004A-N-S003-01212025 SRA-006-N-S001-01212025	UJ
CCVL 320-830077/2 01/29/25 06:41	NFDHA	51.5%	±30%	High	SRA-010-N-S001-01222025 SRA-010-N-S003-01222025 SRA-010-FD-S003-01222025 SRA-011-N-S001-01222025 SRA-009-N-S000-01222025	UJ
CCV 320-830248/1 01/30/25 01:29		32.8%	±30%	High		

CCV ID	Analyte	%D	Control Limit	Bias	Affected Sample	Data Qualifier
CCVL 320-829903/2 01/28/25 10:40	ADONA	37.0%	±30%	High	FB-01212025 EB-01212025	UJ
CCVL 320-830077/2 01/29/25 06:41	PFHxA	33.0%	±30%	High	SRA-010-N-S001-01222025 SRA-010-N-S003-01222025 SRA-009-N-S000-01222025	UJ
CCV 320-837059/1 03/04/25 00:32	NFDHA	30.6%	±30%	High	HFH-003-N-S005-01232025 HFH-003-N-S010-01232025	UJ

2.5 Blanks

ICB and CCB: ICBs and CCBs were analyzed as required by the Method. Target analytes were either not detected in ICBs and CCB at or above the method detection limits (MDLs).

Method Blanks: Method blanks were prepared and analyzed as required by the Method. Target analytes were either not detected at or above the MDLs, or the associated sample concentrations were greater than 5X the detections in method blanks, except for the following:

Blank ID	Analyte	Detection in Blank (µg/kg)	Affected Sample	Original Result (µg/kg)	Qualified Result (µg/kg)
MB 320-831269/1-A	PFBS	0.141 J	CFH-004-FD-S010-01242025	0.140 J	0.19 U
			CFH-003-N-S001-01242025	0.097 J	0.21 U
			CFH-003-N-S003-01242025	0.074 J	0.19 U
			CFH-003-FD-S009-01242025	0.046 J	0.18 U
			CFH-002-FD-S001-01242025	0.057 J	0.21 U
			CFH-002-N-S003-01242025	0.047 J	0.18 U
			CFH-001-N-S001-01242025	0.062 J	0.19 U

Field Blanks: Five field blanks were collected. Target analytes were not detected at or above the MDLs.

Equipment Rinsate Blanks: Five equipment rinsate blanks were collected. Target analytes were not detected at or above the MDLs in these samples.

2.6 Ongoing Precision and Recovery (OPR) and Low-Level OPR (LLOPR)

OPR and LLOPR (named as LCS and LLCS by the laboratory) analyses were performed as required by the Method. A set of LCS and LCS duplicate (LCSD) were prepared and analyzed in association with project samples. All %R and RPD values either met the laboratory control limits, or the outlier had no adverse effects on data quality (e.g., biased high %R or RPD value for an analyte that was not detected in associated samples), except for the following:

LCS/LCSD ID	Analyte	LCS %R	LCSD %R	Control Limit	RPD	Affected sample	Data Qualifier
LCS 320-845047/3-A LCSD 320-845047/4-A	3:3-FTCA	35%	32%	45-130%	10%	JTA-008-N-S017-01172025 JTA-009-N-S020-01172025	UJ
LLCSD 320-845047/2-A (LLOPR)	3:3-FTCA	27%	-	45-130%	-	JTA-009-N-S030-01172025	

2.7 Extracted Internal Standard (EIS)

Proper EIS (named as surrogate spike) compounds were to be added to all samples and QC analyses as required by the Method. The EIS retention times for all field and QC samples should be within 0.40 minutes of the retention time of the midpoint standard in the ICAL, or on days when an ICAL is not performed, the initial CV is used. Analytes calibrated using isotope dilution (i.e., those with corresponding isotopically labeled analogs) should elute within +/- 0.1 minutes of their associated EIS. RTs met the Method requirement.

EIS retention time and recovery met the criteria, except that recovery for selected EIS in few samples was outside the laboratory control criteria, but >10% and <200% of the associated CCVs. As per DoD Data Validation Guidelines, Module 6, detects for analytes quantitated using an EIS percent recovery >200% should be qualified estimated with a negative bias (J-) and non-detects should not be qualified. If the EIS recovery is <10%, associated detects and non-detects should be qualified (R) and rejected. No data qualifying action was required in this manner.

In cases where EIS recovery was outside the laboratory criteria in QC analyses (e.g., method blanks and LCS), the effects on associated field sample results were evaluated and data qualified as appropriate. No data action was taken in these cases.

2.8 Non-extracted Internal Standard (NIS)

NIS compounds (named as internal standard by the laboratory) should be added to samples and QC analyses. NIS response peak areas must be ≥30% of the average area of the corresponding NIS in the calibration standards. The NIS retention times for all field and QC samples should be within 0.40 minutes of the retention time of the midpoint standard in the ICAL, or on days when an ICAL is not performed, the initial CV is used. All NIS response and RTs met the Method control criteria, except that selected NIS recovery was less than 30% due to required extract dilutions. The %R values for the associated EIS compounds were within control criteria for target compound(s) reported from the dilution analyses. No data qualifying action was required.

2.9 Matrix Spike and Matrix Spike Duplicate (MS/MSD)

MS/MSD analyses were not performed on a project sample in these SDGs. The method applies isotope dilution technique, which generally precludes sample matrix effects. No further action was taken in this case.

2.10 Field Duplicates

Twenty-four field duplicates were collected and submitted for PFAS analysis. The RPD and concentration difference values and data qualification for detected target analytes were presented in **Section III**. The field duplicate results met the project field precision criteria.

2.11 Compound Quantitation and Detection Limits

Project target PFAS containing linear and branch isomers (*e.g.*, PFOA, PFNA, PFOSA, NMeFOSA, NEtFOSA, NEtFOSE, and NMeFOSE) were properly integrated and quantitated. Manual integration was performed properly and consistently across calibration and sample analyses.

Sample-specific MDLs and RLs were adjusted with sample amount extracted. RLs were supported with adequate initial calibration concentrations. The reported MDLs and RLs were consistent with those listed in the QAPP, Table 12, as applicable.

In cases where an analyte concentration exceeded instrument calibration range, dilution analysis was performed for the analyte for definitive quantitation of the analyte.

Due to substantial matrix interference, less than normal sample aliquots were used or extracts were diluted for selected samples to overcome the interference with definitive quantitation of target and/or EIS compounds. The MDLs and RLs were raised accordingly in these cases.

Verification calculations were performed on more than 10% of the instrument calibration, calibration verifications, standard concentrations, and reported QC and sample analyses. No anomalies were found. Sample quantitation and reporting were correctly performed.

2.12 Target Compound Identification

Target compound identification is evaluated by examining if:

- (1) The transition ions specified in the SOP were monitored consistently across the course of calibration and sample analyses.
- (2) The relative RT for an analyte to the corresponding labeled internal standard should be within ± 0.1 minute.
- (3) S/N signal for both quantitative and qualitative transition ions must be ≥ 3 .
- (4) Transition ion abundance ratio should be within 50 – 150% of the ICV if analyzed immediately following the ICAL or the most recent CCV standard.

No anomalies were found in relation to target compound identification, except that transition ion abundance ratios for selected detections were outside the control limits as qualified below:

Sample ID	Lab Sample ID	Analyte	Sample Ion Ratio	CCV Ion Ratio	Control Limit	Data Qualifier
JTA-007-N-S006-01172025	320-118424-5	PFOS	8.166	4.867	2.43 - 7.30	J
JTA-008-N-S000-01172025	320-118424-8	NMeFOSAA	3.215	1.186	0.59 - 1.78	J
PDW-002-N-S000-01202025	320-118499-14	PFNA	6.456	3.512	1.76 - 5.27	J
FIT-002-N-S000-01212025	320-118511-1	PFHxA	36.344	14.845	7.42 - 22.27	J
FIT-001-N-S005-01212025	320-118511-11	PFOA	4.111	1.735	0.87 - 2.60	J
SRA-003-N-S000-01212025	320-118511-30	PFNA	6.746	3.512	1.76 - 5.27	J
SRA-001-N-S000-01222025	320-118551-27	PFPeA	315.429	192.502	96.25 - 288.75	J
HFH-004-FD-S010-01232025	320-118553-7	PFNA	5.798	3.564	1.78 - 5.35	J
HFH-005-N-S001-01232025	320-118553-9	PFOS	6.986	4.012	2.01 - 6.02	J
FMB-004-N-S010-01232025	320-118553-32	PFOS	6.429	4.129	2.06 - 6.19	J
FMB-004-FD-S010-01232025	320-118553-33	PFOS	6.352	4.129	2.06 - 6.19	J
HFH-005-N-S006-01232025	320-118553-12	PFOS	10.928	4.245	2.12 - 6.37	J
FMB-003-N-S001-01242025	320-118635-2	PFNA	6.626	3.454	1.73 - 5.18	J
FMB-003-FD-S001-01242025	320-118635-3	PFNA	5.516	3.454	1.73 - 5.18	J
CFH-005-FD-S003-01242025	320-118635-24	PFNA	5.044	3.286	1.64 - 4.93	J

2.13 System Performance

The system performance and stability over an analytical sequence was evaluated by examining chromatograms for abrupt baseline shifting, excessive baseline rise at elevated temperature, progressing peak tailing, or loss of resolution. In addition, the internal standard retention times and response areas were checked for trends of shifting. No anomalies were observed.

2.14 Overall Assessment of PFAS Data Usability

PFAS data are acceptable for use as qualified, based on the information submitted by the laboratory. Qualified data are summarized in **Section IV-1**.

III. FIELD DUPLICATE SUMMARY

According to the QAPP, a criterion of 30 percent was applied to evaluate the RPD values of field duplicate results \geq RL. For results $<$ RL, an advisory criterion of 1xRL was applied to evaluate the concentration differences. The RPD (or concentration difference) values and data qualification for detected compounds in field duplicate pairs are presented as follows:

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
			JTA-007-N-S003-01172025	JTA-007-FD-S003-01172025			
PFBS	µg/kg	0.21	0.11	0.12		0.01	
PFHpS	µg/kg	0.21	0.72	1	32.6%		J/J
PFHxS	µg/kg	0.21	4.1	4.4	7.1%		
PFHxA	µg/kg	0.21	0.45	0.56	21.8%		
PFNS	µg/kg	0.21	0.066	0.068		0.002	
PFNA	µg/kg	0.21	0.18	0.22		0.04	
PFOA	µg/kg	0.21	0.15	0.18		0.03	
PFOS	µg/kg	10	360	380	5.4%		
PFOA	µg/kg	0.21	0.36	0.49	30.6%		J/J
PFPeS	µg/kg	0.21	0.13	0.15		0.02	
PFPeA	µg/kg	0.21	0.14	0.18		0.04	
			JTA-009-N-S003-01172025	JTA-009-FD-S003-01172025			
PFHxS	µg/kg	0.2	0.084	0.18		0.096	
PFHxA	µg/kg	0.2	ND	0.051		0.051	
PFOS	µg/kg	0.2	4.1	6.1	39%		J/J
			RTA-003-N-S003-01172025	RTA-003-FD-S003-01172025			
PFHxS	µg/kg	0.19	0.31	0.24	25%		
PFOS	µg/kg	0.19	0.072	0.064		0.008	
PFOA	µg/kg	0.19	0.49	0.37	28%		
			PDW-001-N-S003-01202025	PDW-001-FD-S003-01202025			
6:2-FTS	µg/kg	0.39	ND	0.18		0.18	
PFHxS	µg/kg	0.2	ND	0.12		0.12	
PFHxA	µg/kg	0.2	ND	0.064		0.064	
PFOS	µg/kg	0.2	ND	0.32		0.32	U/J
PFOA	µg/kg	0.2	ND	0.1		0.1	
			FIT-001-N-S003-01212025	FIT-001-FD-S003-01212025			
PFOS	µg/kg	0.2	ND	0.059		0.059	
Target PFAS	µg/kg	0.2	ND	ND		0	
			SRA-004A-N-S001-01212025	SRA-004A-FD-S001-01212025			

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
5:3-FTCA	µg/kg	1	5.1	6.3	21%		
3:3-FTCA	µg/kg	0.4	0.45	0.52	14%		
7:3-FTCA	µg/kg	1	6.8	7.2	6%		
PFDA	µg/kg	0.2	6.6	5.6	16%		
PFDoA	µg/kg	0.2	4.9	5.7	15%		
PFHpA	µg/kg	0.2	0.13	0.15		0.02	
PFHxS	µg/kg	0.2	0.19	0.19		0	
PFHxA	µg/kg	0.2	0.13	0.14		0.01	
PFNA	µg/kg	0.2	0.52	0.47	10%		
PFOS	µg/kg	0.2	2.3	1.9	19%		
PFOA	µg/kg	0.2	0.66	0.67	2%		
PFPeA	µg/kg	0.2	0.12	0.11		0.01	
PFTeA	µg/kg	0.2	0.98	0.89	10%		
PFTrDA	µg/kg	0.2	0.33	0.34	3%		
PFUnDA	µg/kg	0.2	1.8	1.8	0%		
			HFH-001-N-S003-01222025	HFH-001-FD-S003-01222025			
3:3-FTCA	ng/L	0.39	0.17	0.14		0.03	
7:3-FTCA	ng/L	0.98	0.86	0.86		0	
6:2-FTS	ng/L	0.39	6.6	4.9	30%		
8:2-FTS	ng/L	3.9	150	150	0%		
EtFOSAA	ng/L	2	0.59	0.59		0	
PFDA	ng/L	0.2	3.1	3	3%		
PFHpS	ng/L	2	1.1	0.68		0.42	
PFHpA	ng/L	0.2	0.054	ND		0.054	
PFHxS	ng/L	0.2	1.1	0.55	67%		J/J
PFHxA	ng/L	0.2	0.31	0.24	25%		
PFNS	ng/L	2	0.68	0.61		0.07	
PFNA	ng/L	0.2	0.93	0.66	34%		J/J
PFOSA	ng/L	2	12	13	8%		
PFOS	ng/L	3.9	330	320	3%		
PFOA	ng/L	0.2	1.7	0.6	96%		J/J
PFPeA	ng/L	0.2	0.079	ND		0.079	
			SRA-008-N-S001-01222025	SRA-008-FD-S001-01222025			
PFDA	ng/L	0.2	0.9	1.3	36%		
PFDoA	ng/L	0.2	0.056	0.14		0.084	
PFHpS	ng/L	0.2	0.12	0.29	83%		
PFHxS	ng/L	0.2	0.6	1	50%		
PFHxA	ng/L	0.2	0.47	0.74	45%		
PFNA	ng/L	0.2	0.21	0.26	21%		
PFOSA	ng/L	0.2	ND	0.16		0.16	
PFOS	ng/L	0.2	16	47	98%		

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
PFOA	ng/L	0.2	0.4	0.64	46%		
PFPeA	ng/L	0.2	ND	0.098		0.098	
PFUnDA	ng/L	0.2	ND	0.084		0.084	
			SRA-010-N-S003-01222025	SRA-010-FD-S003-01222025			
PFDA	ng/L	0.2	1.4	1.8	25%		
PFHxS	ng/L	0.2	0.062	0.091		0.029	
PFHxA	ng/L	0.2	ND	0.059		0.059	
PFNA	ng/L	0.2	0.093	0.14		0.047	
PFOS	ng/L	0.2	0.79	1.1	33%		J/J
PFOA	ng/L	0.2	ND	0.089		0.089	
			FMB-004-N-S003-01232025	FMB-004-FD-S003-01232025			
5:3-FTCA	µg/kg	1.2	ND	0.25		0.25	
6:2-FTS	µg/kg	0.46	0.23	0.18		0.05	
PFHpS	µg/kg	0.23	0.7	0.63	11%		
PFHxS	µg/kg	0.23	0.57	0.47	19%		
PFNA	µg/kg	0.23	0.77	0.63	20%		
PFOA	µg/kg	0.23	0.85	0.87	2%		
PFOS	µg/kg	0.23	22	18	20%		
			FMB-004-N-S010-01232025	FMB-004-FD-S010-01232025			
6:2-FTS	µg/kg	0.4	0.53	0.77	37%		J/J
PFBA	µg/kg	0.4	ND	0.11		0.11	
PFBS	µg/kg	0.2	ND	0.089		0.089	
PFHpA	µg/kg	0.2	0.065	0.094		0.029	
PFHxA	µg/kg	0.2	0.12	0.21	55%		J/J
PFHxS	µg/kg	0.2	0.63	0.86	31%		J/J
PFOA	µg/kg	0.2	0.094	0.13		0.036	
PFOS	µg/kg	0.2	0.61	0.82	29%		
PFPeA	µg/kg	0.2	0.12	0.23	63%		J/J
PFPeS	µg/kg	0.2	0.058	0.093		0.035	
			HFH-002-N-S001-01232025	HFH-002-FD-S001-01232025			
6:2-FTS	µg/kg	0.39	0.27	0.43		0.16	
8:2-FTS	µg/kg	0.39	1.4	2.2	44%		J/J
PFBA	µg/kg	0.39	0.16	0.15		0.01	
PFBS	µg/kg	0.2	0.053	ND		0.053	
PFDA	µg/kg	0.2	0.11	0.19		0.08	
PFHpA	µg/kg	0.2	0.59	0.55	7%		
PFHxA	µg/kg	0.2	1	0.94	6%		
PFHxS	µg/kg	0.2	0.61	0.72	17%		
PFNA	µg/kg	0.2	0.1	0.12		0.02	
PFOA	µg/kg	0.2	0.74	0.83	11%		

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
PFOS	µg/kg	0.2	6	10	50%		J/J
PFOSA	µg/kg	0.2	0.086	0.14		0.054	
PFPeA	µg/kg	0.2	1.3	1.1	17%		
PFPeS	µg/kg	0.2	0.068	0.065		0.003	
PFUnDA	µg/kg	0.2	0.064	0.12		0.056	
			HFH-003-N-S006-01232025	HFH-003-FD-S006-01232025			
6:2-FTS	µg/kg	0.41	2.5	2.8	11%		
8:2-FTS	µg/kg	0.41	11	12	9%		
EtFOSAA	µg/kg	0.2	0.054	ND		0.054	
PFBA	µg/kg	0.41	0.18	0.16		0.02	
PFBS	µg/kg	0.2	0.16	0.14		0.02	
PFDA	µg/kg	0.2	0.47	0.46	2%		
PFDS	µg/kg	0.2	0.061	ND		0.061	
PFHpA	µg/kg	0.2	0.28	0.26	7%		
PFHpS	µg/kg	0.2	0.1	0.11		0.01	
PFHxA	µg/kg	0.2	1	0.84	17%		
PFHxS	µg/kg	0.2	2.3	2.3	0%		
PFNA	µg/kg	0.2	0.056	0.062		0.006	
PFNS	µg/kg	0.2	0.13	0.14		0.01	
PFOA	µg/kg	0.2	0.8	0.75	6%		
PFOS	µg/kg	0.2	17	20	16%		
PFOSA	µg/kg	0.2	0.95	0.86	10%		
PFPeA	µg/kg	0.2	0.56	0.5	11%		
PFPeS	µg/kg	0.2	0.2	0.19		0.01	
PFUnDA	µg/kg	0.2	0.056	ND		0.056	
			HFH-004-N-S003-01232025	HFH-004-FD-S003-01232025			
6:2-FTS	µg/kg	0.4	0.21	0.86		0.65	J/J
8:2-FTS	µg/kg	0.4	0.13	0.13		0	
PFBS	µg/kg	0.2	ND	0.16		0.16	
PFDA	µg/kg	0.2	0.19	0.13		0.06	
PFHpA	µg/kg	0.2	0.11	0.19		0.08	
PFHpS	µg/kg	0.2	0.12	0.094		0.026	
PFHxA	µg/kg	0.2	0.075	0.42		0.345	J/J
PFHxS	µg/kg	0.2	4.8	4.1	16%		
PFNA	µg/kg	0.2	0.099	0.093		0.006	
PFOA	µg/kg	0.2	0.67	1.1	49%		J/J
PFOS	µg/kg	0.2	6.9	7.1	3%		
PFOSA	µg/kg	0.2	0.12	0.081		0.039	
PFPeA	µg/kg	0.2	ND	0.11		0.11	
PFPeS	µg/kg	0.2	0.078	0.18		0.102	
			HFH-004-N-S010-01232025	HFH-004-FD-S010-01232025			

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
6:2-FTS	µg/kg	0.41	0.17	0.1		0.07	
8:2-FTS	µg/kg	0.41	0.68	0.53	25%		
PFDA	µg/kg	0.2	0.11	0.052		0.058	
PFDS	µg/kg	0.2	0.077	0.049		0.028	
PFHpS	µg/kg	0.2	0.12	ND		0.12	
PFHxA	µg/kg	0.2	0.075	0.08		0.005	
PFHxS	µg/kg	0.2	1.7	0.39	125%		J/J
PFNA	µg/kg	0.2	0.11	0.075		0.035	
PFOA	µg/kg	0.2	0.26	0.11		0.15	
PFOS	µg/kg	0.2	6.1	3.4	57%		J/J
PFOSA	µg/kg	0.2	0.38	0.37	3%		
PFUnDA	µg/kg	0.2	0.38	0.35	8%		
			HFH-005-N-S001-01232025	HFH-005-FD-S001-01232025			
PFOS	µg/kg	0.2	0.064	0.23		0.166	
			FMB-001-N-S001-01272025	FMB-001-FD-S001-01272025			
6:2-FTS	µg/kg	0.4	0.74	0.57	26%		
PFBA	µg/kg	0.4	0.11	0.1		0.01	
PFDA	µg/kg	0.2	0.38	0.27	34%		J/J
PFDoA	µg/kg	0.2	0.38	0.47	21%		
PFHxA	µg/kg	0.2	0.1	0.069		0.031	
PFOS	µg/kg	0.2	0.25	0.11		0.14	
PFPeA	µg/kg	0.2	0.14	0.089		0.051	
PFTA	µg/kg	0.2	0.08	0.09		0.01	
PFUnDA	µg/kg	0.2	0.13	0.13		0	
			CFH-002-N-S001-01242025	CFH-002-FD-S001-01242025			
3:3-FTCA	µg/kg	0.4	0.89	1	12%		
5:3-FTCA	µg/kg	1	6.1	7.1	15%		
6:2-FTS	µg/kg	0.4	14	11	24%		
PFBA	µg/kg	0.4	0.35	0.28		0.07	
PFBS	µg/kg	0.2	ND	0.057		0.057	
PFHpA	µg/kg	0.2	0.07	0.059		0.011	
PFHxA	µg/kg	0.2	0.35	0.27	26%		
PFHxS	µg/kg	0.2	0.11	0.098		0.012	
PFNA	µg/kg	0.2	0.062	0.099		0.037	
PFOA	µg/kg	0.2	0.12	0.11		0.01	
PFOS	µg/kg	0.2	0.28	0.38	30%		
PFPeA	µg/kg	0.2	0.45	0.43	5%		
			CFH-003-N-S009-01242025	CFH-003-FD-S009-01242025			
PFBA	µg/kg	0.42	0.12	0.13		0.01	
PFBS	µg/kg	0.21	ND	0.046		0.046	

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
PFHxA	µg/kg	0.21	0.1	0.16		0.06	
PFPeA	µg/kg	0.21	0.17	0.23		0.06	
			CFH-004-N-S010-01242025	CFH-004-FD-S010-01242025			
6:2-FTS	µg/kg	0.41	3.9	4.2	7%		
8:2-FTS	µg/kg	0.41	0.28	0.29		0.01	
PFBA	µg/kg	0.41	ND	0.13		0.13	
PFBS	µg/kg	0.2	0.079	0.14		0.061	
PFHpA	µg/kg	0.2	ND	0.06		0.06	
PFHpS	µg/kg	0.2	0.16	0.14		0.02	
PFHxA	µg/kg	0.2	0.2	0.3	40%		J/J
PFHxS	µg/kg	0.2	2.1	2.5	17%		
PFNA	µg/kg	0.2	0.3	0.27	11%		
PFOA	µg/kg	0.2	0.21	0.26	21%		
PFOS	µg/kg	0.2	21	20	5%		
PFPeA	µg/kg	0.2	0.11	0.18		0.07	
PFPeS	µg/kg	0.2	0.19	0.24		0.05	
			CFH-005-N-S003-01242025	CFH-005-FD-S003-01242025			
3:3-FTCA	µg/kg	0.4	0.22	0.28		0.06	
5:3-FTCA	µg/kg	1	1.1	1.2	9%		
6:2-FTS	µg/kg	0.4	36	27	29%		
8:2-FTS	µg/kg	0.4	0.15	0.14		0.01	
PFBA	µg/kg	0.4	0.2	0.15		0.05	
PFHpA	µg/kg	0.2	0.18	0.092		0.088	
PFHpS	µg/kg	0.2	0.52	0.96	59%		J/J
PFHxA	µg/kg	0.2	0.31	0.19		0.12	
PFHxS	µg/kg	0.2	8.3	5.5	41%		J/J
PFNA	µg/kg	0.2	ND	0.07		0.07	
PFOA	µg/kg	0.2	2.8	2.2	24%		
PFOS	µg/kg	0.2	2.2	1.5	38%		J/J
PFPeA	µg/kg	0.2	0.14	0.1		0.04	
PFPeS	µg/kg	0.2	0.22	0.092		0.128	
			CFH-007-N-S001-01242025	CFH-007-FD-S001-01242025			
PFBA	µg/kg	0.4	0.12	0.12		0	
PFDA	µg/kg	0.2	ND	0.067		0.067	
PFHxA	µg/kg	0.2	0.061	ND		0.061	
PFHxS	µg/kg	0.2	0.082	0.051		0.031	
PFNA	µg/kg	0.2	0.083	0.063		0.02	
PFOA	µg/kg	0.2	0.12	0.062		0.12	
PFOS	µg/kg	0.2	1.2	2.2	59%		J/J
			FMB-003-N-S001-01242025	FMB-003-FD-S001-01242025			

Target Analyte	Unit	RL	Field Duplicate Sample ID & Concentration		RPD (%)	Concentration Difference	Data Qualifier
6:2-FTS	µg/kg	0.39	0.42	ND		0.42	
8:2-FTS	µg/kg	0.39	0.14	ND		0.14	
PFDA	µg/kg	0.19	0.25	0.38	41%		J/J
PFDoA	µg/kg	0.19	0.66	0.54	20%		
PFHxS	µg/kg	0.19	0.057	0.05		0.057	
PFNA	µg/kg	0.19	0.086	0.087		0.001	
PFOA	µg/kg	0.19	0.19	0.38	67%		J/J
PFOS	µg/kg	0.19	0.74	0.11		0.63	J/J
PFTA	µg/kg	0.19	0.31	0.19		0.12	
PFTrDA	µg/kg	0.19	0.096	0.074		0.022	
PFUnDA	µg/kg	0.19	0.092	0.11		0.018	
			FMB-003-N-S010-01242025	FMB-003-FD-S010-01242025			
6:2-FTS	µg/kg	0.42	6.3	7.4	16%		
8:2-FTS	µg/kg	0.42	0.27	0.15		0.12	
PFBA	µg/kg	0.42	0.14	0.16		0.02	
PFDA	µg/kg	0.21	0.096	ND		0.096	
PFHpA	µg/kg	0.21	0.073	0.1		0.027	
PFHxA	µg/kg	0.21	0.22	0.29	27%		
PFHxS	µg/kg	0.21	0.46	0.61	28%		
PFOA	µg/kg	0.21	0.29	0.32	10%		
PFOS	µg/kg	0.21	2.7	2.3	16%		
PFPeA	µg/kg	0.21	0.17	0.21		0.04	

Notes:

µg/kg – micrograms per kilogram

ND – The analyte was not detected at or above the method detection limit (MDL).

ng/L – nanograms per liter

RL – Reporting limit

RPD – Relative percent difference

IV. DATA VALIDATION SUMMARY

1. Data Qualification

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
JTA-008-N-S017-01172025	320-118424-14	3:3 Fluorotelomer carboxylic acid	UJ	BSL
JTA-009-N-S020-01172025	320-118424-22	3:3 Fluorotelomer carboxylic acid	UJ	BSL
JTA-009-N-S030-01172025	320-118424-23	3:3 Fluorotelomer carboxylic acid	UJ	BSL
EB-01212025	320-118511-47	4,8-Dioxa-3h-perfluorononanoic acid	UJ	CCH
FB-01212025	320-118511-48	4,8-Dioxa-3h-perfluorononanoic acid	UJ	CCH
FIT-004-N-S003-01212025	320-118511-24	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
FIT-004-FD-S003-01212025	320-118511-25	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-003-N-S001-01212025	320-118511-31	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-003-N-S003-01212025	320-118511-32	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-004A-N-S001-01212025	320-118511-37	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-004A-N-S003-01212025	320-118511-39	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-006-N-S001-01212025	320-118511-45	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-009-N-S000-01222025	320-118551-9	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-010-N-S001-01222025	320-118551-11	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-010-N-S003-01222025	320-118551-12	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-010-FD-S003-01222025	320-118551-13	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
HFH-003-N-S005-01232025	320-118553-14	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-011-N-S001-01222025	320-118551-18	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
HFH-003-N-S010-01232025	320-118553-19	Nonafluoro-3,6-dioxaheptanoic acid	UJ	CCH
SRA-010-N-S001-01222025	320-118551-11	Perfluorohexanoic acid	UJ	CCH
SRA-010-N-S003-01222025	320-118551-12	Perfluorohexanoic acid	UJ	CCH
SRA-009-N-S000-01222025	320-118551-9	Perfluorohexanoic acid	UJ	CCH
JTA-009-N-S015-01172025	320-118424-21	Perfluoropentanoic acid	UJ	CCH
SRA-003-N-S012-01212025	320-118511-35	Perfluoropentanoic acid	UJ	CCH
FIT-002-N-S015-01212025	320-118511-6	Perfluoropentanoic acid	UJ	CCH
SRA-011-N-S014-01222025	320-118551-22	Perfluoropentanoic acid	UJ	CCH
FMB-002-N-S013-01242025	320-118635-14	Perfluoropentanoic acid	UJ	CCH
HFH-004-N-S003-01232025	320-118553-3	6:2 Fluorotelomer sulfonic acid	J	FD
FMB-004-N-S010-01232025	320-118553-32	6:2 Fluorotelomer sulfonic acid	J	FD
FMB-004-FD-S010-01232025	320-118553-33	6:2 Fluorotelomer sulfonic acid	J	FD
HFH-004-FD-S003-01232025	320-118553-4	6:2 Fluorotelomer sulfonic acid	J	FD
HFH-002-N-S001-01232025	320-118553-22	8:2 Fluorotelomer sulfonic acid	J	FD
HFH-002-FD-S001-01232025	320-118553-23	8:2 Fluorotelomer sulfonic acid	J	FD
SRA-008-N-S001-01222025	320-118551-24	Perfluorodecanoic acid	J	FD
SRA-008-FD-S001-01222025	320-118551-25	Perfluorodecanoic acid	J	FD
FMB-001-N-S001-01272025	320-118632-2	Perfluorodecanoic acid	J	FD
FMB-001-FD-S001-01272025	320-118632-3	Perfluorodecanoic acid	J	FD

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
FMB-003-N-S001-01242025	320-118635-2	Perfluorodecanoic acid	J	FD
FMB-003-FD-S001-01242025	320-118635-3	Perfluorodecanoic acid	J	FD
JTA-007-N-S003-01172025	320-118424-3	Perfluoroheptanesulfonic acid	J	FD
JTA-007-FD-S003-01172025	320-118424-4	Perfluoroheptanesulfonic acid	J	FD
SRA-008-N-S001-01222025	320-118551-24	Perfluoroheptanesulfonic acid	J	FD
SRA-008-FD-S001-01222025	320-118551-25	Perfluoroheptanesulfonic acid	J	FD
CFH-005-N-S003-01242025	320-118635-23	Perfluoroheptanesulfonic acid	J	FD
CFH-005-FD-S003-01242025	320-118635-24	Perfluoroheptanesulfonic acid	J	FD
SRA-008-N-S001-01222025	320-118551-24	Perfluorohexanesulfonic acid	J	FD
SRA-008-FD-S001-01222025	320-118551-25	Perfluorohexanesulfonic acid	J	FD
HFH-001-N-S003-01222025	320-118551-33	Perfluorohexanesulfonic acid	J	FD
HFH-001-FD-S003-01222025	320-118551-34	Perfluorohexanesulfonic acid	J	FD
FMB-004-N-S010-01232025	320-118553-32	Perfluorohexanesulfonic acid	J	FD
FMB-004-FD-S010-01232025	320-118553-33	Perfluorohexanesulfonic acid	J	FD
HFH-004-N-S010-01232025	320-118553-6	Perfluorohexanesulfonic acid	J	FD
HFH-004-FD-S010-01232025	320-118553-7	Perfluorohexanesulfonic acid	J	FD
CFH-005-N-S003-01242025	320-118635-23	Perfluorohexanesulfonic acid	J	FD
CFH-005-FD-S003-01242025	320-118635-24	Perfluorohexanesulfonic acid	J	FD
SRA-008-N-S001-01222025	320-118551-24	Perfluorohexanoic acid	J	FD
SRA-008-FD-S001-01222025	320-118551-25	Perfluorohexanoic acid	J	FD
HFH-004-N-S003-01232025	320-118553-3	Perfluorohexanoic acid	J	FD
FMB-004-N-S010-01232025	320-118553-32	Perfluorohexanoic acid	J	FD
FMB-004-FD-S010-01232025	320-118553-33	Perfluorohexanoic acid	J	FD
HFH-004-FD-S003-01232025	320-118553-4	Perfluorohexanoic acid	J	FD
CFH-004-N-S010-01242025	320-118635-30	Perfluorohexanoic acid	J	FD
CFH-004-FD-S010-01242025	320-118635-31	Perfluorohexanoic acid	J	FD
SRA-008-N-S001-01222025	320-118551-24	Perfluorononanoic acid	J	FD
SRA-008-FD-S001-01222025	320-118551-25	Perfluorononanoic acid	J	FD
HFH-001-N-S003-01222025	320-118551-33	Perfluorononanoic acid	J	FD
HFH-001-FD-S003-01222025	320-118551-34	Perfluorononanoic acid	J	FD
JTA-009-N-S003-01172025	320-118424-17	Perfluorooctanesulfonic acid	J	FD
JTA-009-FD-S003-01172025	320-118424-18	Perfluorooctanesulfonic acid	J	FD
PDW-001-N-S003-01202025	320-118499-25	Perfluorooctanesulfonic acid	UJ	FD
PDW-001-FD-S003-01202025	320-118499-26	Perfluorooctanesulfonic acid	J	FD
SRA-010-N-S003-01222025	320-118551-12	Perfluorooctanesulfonic acid	J	FD
SRA-010-FD-S003-01222025	320-118551-13	Perfluorooctanesulfonic acid	J	FD
SRA-008-N-S001-01222025	320-118551-24	Perfluorooctanesulfonic acid	J	FD
SRA-008-FD-S001-01222025	320-118551-25	Perfluorooctanesulfonic acid	J	FD
HFH-002-N-S001-01232025	320-118553-22	Perfluorooctanesulfonic acid	J	FD
HFH-002-FD-S001-01232025	320-118553-23	Perfluorooctanesulfonic acid	J	FD
HFH-004-N-S010-01232025	320-118553-6	Perfluorooctanesulfonic acid	J	FD

Sample Name	Laboratory ID	Analyte	Qualifier	Reason Code
HFH-004-FD-S010-01232025	320-118553-7	Perfluorooctanesulfonic acid	J	FD
CFH-007-N-S001-01242025	320-118635-16	Perfluorooctanesulfonic acid	J	FD
CFH-007-FD-S001-01242025	320-118635-17	Perfluorooctanesulfonic acid	J	FD
FMB-003-N-S001-01242025	320-118635-2	Perfluorooctanesulfonic acid	J	FD
CFH-005-N-S003-01242025	320-118635-23	Perfluorooctanesulfonic acid	J	FD
CFH-005-FD-S003-01242025	320-118635-24	Perfluorooctanesulfonic acid	J	FD
FMB-003-FD-S001-01242025	320-118635-3	Perfluorooctanesulfonic acid	J	FD
JTA-007-N-S003-01172025	320-118424-3	Perfluorooctanoic acid	J	FD
JTA-007-FD-S003-01172025	320-118424-4	Perfluorooctanoic acid	J	FD
SRA-008-N-S001-01222025	320-118551-24	Perfluorooctanoic acid	J	FD
SRA-008-FD-S001-01222025	320-118551-25	Perfluorooctanoic acid	J	FD
HFH-001-N-S003-01222025	320-118551-33	Perfluorooctanoic acid	J	FD
HFH-001-FD-S003-01222025	320-118551-34	Perfluorooctanoic acid	J	FD
HFH-004-N-S003-01232025	320-118553-3	Perfluorooctanoic acid	J	FD
HFH-004-FD-S003-01232025	320-118553-4	Perfluorooctanoic acid	J	FD
FMB-003-N-S001-01242025	320-118635-2	Perfluorooctanoic acid	J	FD
FMB-003-FD-S001-01242025	320-118635-3	Perfluorooctanoic acid	J	FD
FMB-004-N-S010-01232025	320-118553-32	Perfluoropentanoic acid	J	FD
FMB-004-FD-S010-01232025	320-118553-33	Perfluoropentanoic acid	J	FD
JTA-008-N-S000-01172025	320-118424-8	2-(N-Methylperfluorooctanesulfonamido)acetic acid	J	IRH
FIT-002-N-S000-01212025	320-118511-1	Perfluorohexanoic acid	J	IRH
SRA-003-N-S000-01212025	320-118511-30	Perfluorononanoic acid	J	IRH
HFH-004-FD-S010-01232025	320-118553-7	Perfluorononanoic acid	J	IRH
JTA-007-N-S006-01172025	320-118424-5	Perfluorooctanesulfonic acid	J	IRH
HFH-005-N-S006-01232025	320-118553-12	Perfluorooctanesulfonic acid	J	IRH
FMB-004-N-S010-01232025	320-118553-32	Perfluorooctanesulfonic acid	J	IRH
FMB-004-FD-S010-01232025	320-118553-33	Perfluorooctanesulfonic acid	J	IRH
HFH-005-N-S001-01232025	320-118553-9	Perfluorooctanesulfonic acid	J	IRH
FIT-001-N-S005-01212025	320-118511-11	Perfluorooctanoic acid	J	IRH
SRA-001-N-S000-01222025	320-118551-27	Perfluoropentanoic acid	J	IRH
PDW-002-N-S000-01202025	320-118499-14	Perfluorononanoic acid	J	IRH
CFH-004-FD-S010-01242025	320-118635-31	Perfluorobutanesulfonic acid	0.19 U	MBL
CFH-003-N-S001-01242025	320-118635-34	Perfluorobutanesulfonic acid	0.21 U	MBL
CFH-003-N-S003-01242025	320-118635-35	Perfluorobutanesulfonic acid	0.19 U	MBL
CFH-003-FD-S009-01242025	320-118635-38	Perfluorobutanesulfonic acid	0.18 U	MBL
CFH-002-FD-S001-01242025	320-118635-41	Perfluorobutanesulfonic acid	0.21 U	MBL
CFH-002-N-S003-01242025	320-118635-42	Perfluorobutanesulfonic acid	0.18 U	MBL
CFH-001-N-S001-01242025	320-118635-47	Perfluorobutanesulfonic acid	0.19 U	MBL

Notes:

“U” – The analyte was qualified as non-detected at the associated value. Results are reported in µg/kg for soil samples.
 CCH – Continuing calibration verification recovery biased high.

BSL – Blank spike (laboratory control sample) recovery biased low.

IRH – The transition ion abundance ratio biased high.

MBL – The result was affected by the detection on associated method blank.

FD – Field duplicate results did not meet project precision criteria.

2. Data Qualifier Definition

Data Qualifier	Definition
J	The analyte was detected above the reported quantitation limit, and the reported concentration was an estimated value with an unknown bias.
J+	The analyte was detected above the reported quantitation limit, and the reported concentration was an estimated value with a high bias.
U	The analyte was not detected at or above the reported detection limit.
UJ	The analyte is not detected above the sample specific detection limit (DL), and the DL was an estimated value.
R	Exclusion of the data was recommended.

V. REFERENCES

- United States Environmental Protection Agency (USEPA). 2024. *Analysis of Per- and Polyfluoroalkyl Substances (PFAS) in Aqueous, Solid, Biosolids, and Tissue Samples by LC-MS/MS*. Office of Water. January 2024. EPA 821-R-24-001
- USEPA. 2020. *Contract Laboratory Program National Functional Guidelines for Organic Superfund Data Review*. Office of Superfund Remediation and Technical Innovation. November 2020. OLEM 9240.0-51. EPA-540-R-20-005.
- Department of Defense, United States (DoD). 2022. *Data Validation Guidelines Module 6: Data Validation Guidelines Module 6: Data Validation Procedure for Per- and Polyfluoroalkyl Substances Analysis by QSM Table B-24*. Environmental Data Quality Workgroup. November 2022.
- GSI Environmental, Inc. 2024. *Initial PFAS Investigation Work Plan, Spokane International Airport, Spokane, Washington*. Appendix B – Quality Assurance Project Plan. Prepared for Port of Seattle. December 13, 2024.