

December 23, 2025

Jim Schneider
HF Sinclair Puget Sound Refining LLC
8505 South Texas Road
Anacortes, WA 98221

**Re: Groundwater Monitoring Report: API Well
HF Sinclair Puget Sound Refining LLC**

Dear Mr. Schneider:

ALL4 LLC (ALL4) has completed the annual groundwater sampling at the API well (W-128). This report documents the 2025 annual groundwater monitoring results. The report should be used to document the groundwater conditions in the vicinity of the API Separator located within the Effluent Plant (EP) at the HF Sinclair Puget Sound Refining LLC (HFSPSR) facility. The HFSPSR facility is located at 8505 South Texas Road in Anacortes, Washington. The HFSPSR facility and the API site location are shown on Figure 1. The API area, including the location of W-128, is shown in Figure 2.

Historically, one groundwater sample was collected from monitoring well W-128 annually and analyzed for gasoline-range total petroleum hydrocarbons (TPH), diesel-range TPH, and oil-range TPH using method NWTPH-HCID. Method NWTPH-HCID does not provide quantified results and is used to show the presence or absence of TPH ranges. Since 2019, the volume of water in well W-128 has been insufficient to collect and analyze a groundwater sample for method NWTPH-HCID due to the volume of water required for the test. Since 2019, groundwater from W-128 has been analyzed for gasoline range TPH using method NWTPH-Gx, diesel and oil range TPH using method NWPTH-Dx, and benzene, toluene, ethylbenzene, and total xylenes (BTEX) using method EPA-8260D, as an alternative to the NWTPH-HCID analysis.

GROUNDWATER SAMPLING

One groundwater sample was collected from monitoring well W-128 in 2025. Two site visits were required to complete the collection of the groundwater sample based on the volume of water needed for the analyses. The first event was conducted on October 30, 2025, and bottles for diesel and oil range TPH were filled before the well went dry. The second site visit was completed on November 25, 2025, and the remaining sample bottles for gasoline range TPH and BTEX were filled. The groundwater samples were analyzed at Eurofins Seattle (Eurofins) laboratory.

Prior to sampling, during each sampling attempt, the depth-to-water (DTW) in well W-128 was measured from the top of the polyvinyl chloride (PVC) well casing using an electronic water level indicator. Water levels were recorded in the field notebook. The DTW from each sampling event is presented in Table 1. Water levels in well W-128 have historically been very low due to the shallow depth of the well; the depth of the well is approximately eight feet from the top of the well casing.

Sampling at well W-128 is generally conducted by measuring the depth-to-water, collecting a grab sample prior to purging the well, and then an attempt is made to collect the sample using low-flow sampling procedure per U.S. EPA guidance EQASOP-GW4¹. Water chemistry parameters are measured during the low-flow sampling procedure using a YSI multi-parameter water meter in conjunction with a flow-through cell. During the October 2025 sampling attempt, water levels were not sufficient to allow for low-flow sampling. Groundwater chemistry parameters were collected during the November 2025 sampling event, after collection of the grab sample.

The sample containers were stored on ice in a cooler immediately following collection. All sample containers included a sample label which indicated the sample identification, the project name, the sampling date and time, and the sampler. Standard industry protocols regarding sample collection, preservation, chain-of-custody, and shipping were followed.

GROUNDWATER SAMPLING RESULTS

No analytes were detected above laboratory detection limits.

Groundwater analytical data are summarized in Table 1. Groundwater chemistry parameters are included in Table 2. The original groundwater laboratory analytical data reports are included as an attachment with this letter.

CONCLUSIONS

This report summarizes the groundwater sampling conducted at well W-128 in 2025. Two site visits were required to complete the sampling due to an insufficient volume of water in the well during the first groundwater sampling attempt. Sampling was completed in November 2025, and no detectable contaminants were detected at the well as described above.

Please use this letter report to document the condition of the groundwater in 2025 in the vicinity of the API Separator located within the Effluent Plant at the HFSPSR facility in Anacortes, Washington.

Should you have any questions about this letter, please contact Ava Gempler at (360) 685-8339 or agempler@all4inc.com.

Sincerely,



Ava Gempler (ALL4)
Consulting Scientist

¹ U.S. Environmental Protection Agency – Region 1. (2017). Low Stress (low flow) Purging and Sampling Procedure for the Collection of Groundwater Samples from Monitoring Wells. (EQASOP-GW4). U.S. Environmental Protection Agency.

cc: Jim Schneider (HFSPSR)

Figure 1 – Site Location Map

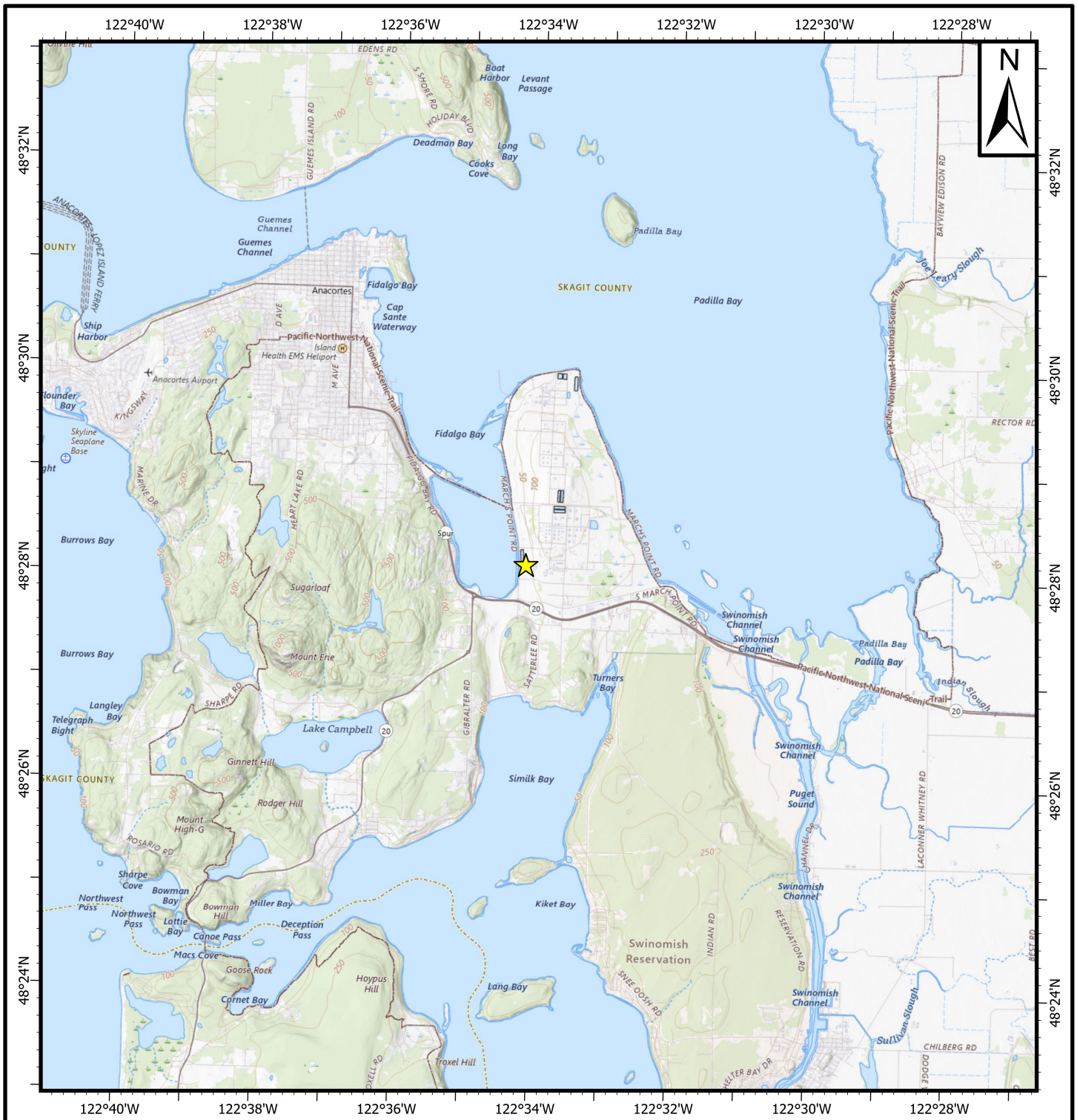
Figure 2 – API Monitoring Well Location Map

Table 1 – Groundwater Sample Petroleum Analytical Results – API Well

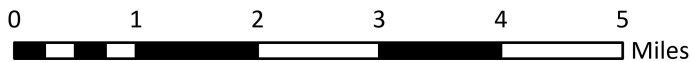
Table 2 – Groundwater Chemistry Parameters – API Well

Attachments:

Attachment 1 – Original Laboratory Data Reports (10/30/2025 and 11/25/2025)



Scale: 1:100,000



Locator Map



HF Sinclair Puget Sound Refining, LLC
8505 S. Texas Road
Anacortes, WA 98221

DATE:
12/23/2025

PROJECT:
004531-0033.00



Figure 1
Site Location Map

HFSPSR - API Well Project
8505 S. Texas Road
Anacortes, WA 98221



Groundwater Monitoring Well

All data are approximate and should be used for relative location reference only.

Figure 2 API Monitoring Well Location Map

0 100 200 400
Feet
1 inch = 200 feet

DATE:
12/23/2025
PROJECT:
004531-0033.00



HFSPSR - API Well Project
8505 S. Texas Road
Anacortes, WA 98221

Table 1
Groundwater Sample Petroleum Analytical Results - API Well
HF Sinclair Puget Sound Refining LLC - Anacortes, WA

Sample ID	Depth to Water	NWTPH-HCID	NWTPH-HCID	NWTPH-HCID	NWTPH-Gx	NWTPH-Dx	NWTPH-Dx	EPA-8260	EPA-8260	EPA-8260	EPA-8260
		Gasoline Range	Diesel Range	Oil Range	Gasoline Range	Diesel Range	Oil Range	Benzene	Toluene	Ethylbenzene	Xylenes
Units:	(ft below casing)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
MTCA Method A Cleanup Levels:		1,000/800 ^(a)	500	500	1,000/800 ^(a)	500	500	5	1,000	700	1,000
API WELL (W-128)											
11/20/17	7.30	90	ND(<120)	ND(<240)	NA	NA	NA	NA	NA	NA	NA
11/14/18	7.36	31	100	ND(<110)	NA	NA	NA	NA	NA	NA	NA
12/12/19	7.94	NA	NA	NA	ND(<250)	NA	NA	ND(<3.0)	ND(<2.0)	ND(<3.0)	ND(<3.0)
4/22/20	7.23	NA	NA	NA	ND(<250)	130	ND(<380)	ND(<3.0)	ND(<2.0)	ND(<3.0)	ND(<3.0)
3/30/21	7.95	NA	NA	NA	ND(<250)	ND(<120)	ND(<390)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)
4/20/22	6.95	NA	NA	NA	ND(<50)	ND(<110)	ND(<360)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)
12/13/23	7.60	NA	NA	NA	ND(<100)	130	ND(<360)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)
5/13/24	7.92	NA	NA	NA	ND(<150)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)
11/12/24	6.04	NA	NA	NA	ND(<150)	ND(<200)	ND(<350)	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)
10/30/25	7.74	NA	NA	NA	NA	ND(<210)	ND(<360)	NA	NA	NA	NA
11/25/25	6.88	NA	NA	NA	ND(<150)	NA	NA	ND(<1.0)	ND(<1.0)	ND(<1.0)	ND(<2.0)

^(a) Cleanup level dependant on BTEX concentrations.

ND indicates analyte was not detected at level above the laboratory reporting limit.

NA indicates analyte was not analyzed for that particular sample.

Table 2
Groundwater Chemistry Parameters - API Well
HF Sinclair Puget Sound Refining LLC - Anacortes, WA

Sample ID	Temperature	Electrical Conductivity	TDS	Salinity	DO	pH	ORP
Units:	(°C)	(mS/cm)	(g/L)	(ppt)	(mg/L)	(pH units)	(mV)
API WELL (W-128)							
11/16/17	13.47	0.97	0.63	0.48	2.54	7.84	108.90
11/14/18	Well immediately went dry prior to any parameters being recorded.						
12/12/19	Well immediately went dry prior to any parameters being recorded.						
4/22/20	Well immediately went dry prior to any parameters being recorded.						
3/30/21	Well immediately went dry prior to any parameters being recorded.						
4/20/22	Well immediately went dry prior to any parameters being recorded.						
12/13/23	Well immediately went dry prior to any parameters being recorded.						
5/13/24	Well immediately went dry prior to any parameters being recorded.						
11/12/24	15.07	0.82	0.53	0.41	4.36	6.86	-23.30
10/30/25	Well immediately went dry prior to any parameters being recorded.						
11/25/25 ^(a)	16.40	0.90	0.58	0.44	5.18	7.38	56.80

^(a) Well ran dry after 30 minutes of low-flow sampling procedure, prior to stabilization.

**ATTACHMENT 1 -
ORIGINAL LABORATORY DATA REPORTS (10/30/2025 AND 11/25/2025)**

ANALYTICAL REPORT

PREPARED FOR

Attn: Eric Libolt
ALL4, Inc.
228 East Champion Street #101
Bellingham, Washington 98225

Generated 11/7/2025 8:43:25 AM

JOB DESCRIPTION

HF Sinclair 2025 GW Monitoring -C
HF Sinclair Puget Sound Refining LLC

JOB NUMBER

580-155373-1

Eurofins Seattle

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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11/7/2025 8:43:25 AM

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Case Narrative

Client: ALL4, Inc.
Project: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1

Job ID: 580-155373-1

Eurofins Seattle

Job Narrative 580-155373-1

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 10/31/2025 9:40 AM. 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 1.4°C.

Receipt Exceptions

One 250mL amber container submitted for NWTPH - DX was not completely filled.

W-128 (580-155373-1)

Sample containers were not provided by the client for the following sample for Gx and BTEX: W-128 (580-155373-1) and Trip Blanks (580-155373-2) The client indicated 8 containers on the COC but there were only 2 amber 250 HCl in the cooler. This sample was only logged in for Dx as requested on the COC.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Hydrocarbons

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Seattle

Definitions/Glossary

Client: ALL4, Inc.

Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1

SDG: HF Sinclair Puget Sound Refining LLC

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: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Client Sample ID: W-128

Lab Sample ID: 580-155373-1

Date Collected: 10/30/25 11:10

Matrix: Water

Date Received: 10/31/25 09:40

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.21		mg/L		11/04/25 09:13	11/05/25 17:44	1
Motor Oil (>C24-C36)	ND		0.36		mg/L		11/04/25 09:13	11/05/25 17:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl	88		50 - 150				11/04/25 09:13	11/05/25 17:44	1

Client Sample Results

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Client Sample ID: Trip Blanks

Lab Sample ID: 580-155373-2

Date Collected: 10/30/25 00:00

Matrix: Water

Date Received: 10/31/25 09:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			11/03/25 14:25	1
Toluene	ND		1.0		ug/L			11/03/25 14:25	1
Ethylbenzene	ND		1.0		ug/L			11/03/25 14:25	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/03/25 14:25	1
o-Xylene	ND		1.0		ug/L			11/03/25 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		11/03/25 14:25	1
4-Bromofluorobenzene (Surr)	95		80 - 120		11/03/25 14:25	1
Dibromofluoromethane (Surr)	114		80 - 120		11/03/25 14:25	1
1,2-Dichloroethane-d4 (Surr)	116		80 - 120		11/03/25 14:25	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.15		mg/L			11/03/25 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		77 - 123		11/03/25 14:25	1

QC Sample Results

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-507586/10

Matrix: Water

Analysis Batch: 507586

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			11/03/25 13:34	1
Toluene	ND		1.0		ug/L			11/03/25 13:34	1
Ethylbenzene	ND		1.0		ug/L			11/03/25 13:34	1
m-Xylene & p-Xylene	ND		2.0		ug/L			11/03/25 13:34	1
o-Xylene	ND		1.0		ug/L			11/03/25 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		11/03/25 13:34	1
4-Bromofluorobenzene (Surr)	100		80 - 120		11/03/25 13:34	1
Dibromofluoromethane (Surr)	110		80 - 120		11/03/25 13:34	1
1,2-Dichloroethane-d4 (Surr)	107		80 - 120		11/03/25 13:34	1

Lab Sample ID: LCS 580-507586/5

Matrix: Water

Analysis Batch: 507586

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	5.00	5.23		ug/L		105	80 - 122
Toluene	5.00	5.00		ug/L		100	80 - 120
Ethylbenzene	5.00	5.30		ug/L		106	80 - 120
m-Xylene & p-Xylene	5.00	5.59		ug/L		112	80 - 120
o-Xylene	5.00	5.54		ug/L		111	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	98		80 - 120
4-Bromofluorobenzene (Surr)	109		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		80 - 120

Lab Sample ID: LCSD 580-507586/6

Matrix: Water

Analysis Batch: 507586

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	5.00	5.05		ug/L		101	80 - 122	4	14
Toluene	5.00	5.42		ug/L		108	80 - 120	8	13
Ethylbenzene	5.00	5.66		ug/L		113	80 - 120	7	14
m-Xylene & p-Xylene	5.00	5.66		ug/L		113	80 - 120	1	14
o-Xylene	5.00	5.48		ug/L		110	80 - 120	1	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	109		80 - 120
1,2-Dichloroethane-d4 (Surr)	111		80 - 120

Eurofins Seattle

QC Sample Results

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-507582/10
Matrix: Water
Analysis Batch: 507582

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.15		mg/L			11/03/25 13:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		77 - 123					11/03/25 13:34	1

Lab Sample ID: LCS 580-507582/7
Matrix: Water
Analysis Batch: 507582

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline	1.00	1.15		mg/L		115	55 - 148		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	96		77 - 123						

Lab Sample ID: LCSD 580-507582/8
Matrix: Water
Analysis Batch: 507582

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Gasoline	1.00	1.17		mg/L		117	55 - 148	2	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	90		77 - 123						

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC)

Lab Sample ID: MB 580-507655/1-A
Matrix: Water
Analysis Batch: 507784

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 507655

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
#2 Diesel (C10-C24)	ND		0.20		mg/L		11/04/25 09:13	11/05/25 15:22	1
Motor Oil (>C24-C36)	ND		0.35		mg/L		11/04/25 09:13	11/05/25 15:22	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl	99		50 - 150				11/04/25 09:13	11/05/25 15:22	1

Lab Sample ID: LCS 580-507655/2-A
Matrix: Water
Analysis Batch: 507784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507655

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
#2 Diesel (C10-C24)	4.00	3.21		mg/L		80	50 - 120		
Motor Oil (>C24-C36)	4.00	3.49		mg/L		87	64 - 120		

Eurofins Seattle

QC Sample Results

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Method: NWTPH-Dx - Northwest - Semi-Volatile Petroleum Products (GC) (Continued)

Lab Sample ID: LCS 580-507655/2-A
Matrix: Water
Analysis Batch: 507784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 507655

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	76		50 - 150

Lab Sample ID: LCSD 580-507655/3-A
Matrix: Water
Analysis Batch: 507784

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 507655

	Spike	LCSD	LCSD						%Rec		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit			
#2 Diesel (C10-C24)	4.00	3.65		mg/L		91	50 - 120	13	26			
Motor Oil (>C24-C36)	4.00	3.93		mg/L		98	64 - 120	12	24			

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	89		50 - 150

Lab Chronicle

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Client Sample ID: W-128
Date Collected: 10/30/25 11:10
Date Received: 10/31/25 09:40

Lab Sample ID: 580-155373-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	3510C			507655	J1H	EET SEA	11/04/25 09:13
Total/NA	Analysis	NWTPH-Dx		1	507784	K1K	EET SEA	11/05/25 17:44

Client Sample ID: Trip Blanks
Date Collected: 10/30/25 00:00
Date Received: 10/31/25 09:40

Lab Sample ID: 580-155373-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	507586	AA	EET SEA	11/03/25 14:25
Total/NA	Analysis	NWTPH-Gx		1	507582	AA	EET SEA	11/03/25 14:25

Laboratory References:
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-26

- 1
- 2
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Sample Summary

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring -C

Job ID: 580-155373-1
SDG: HF Sinclair Puget Sound Refining LLC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
580-155373-1	W-128	Water	10/30/25 11:10	10/31/25 09:40	Washington
580-155373-2	Trip Blanks	Water	10/30/25 00:00	10/31/25 09:40	Washington

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- 11

Chain of Custody Record

Client Information		Sampler	Lab PM:	Carrier Tracking No(s):	COC No:							
Client Contact: Ava Gempier Company: ALL4 LLC		Phone: 360-752-9571	Meagann Russell E-Mail: Meagann.Russell@eurofins.com	FedEx	Page: Page 1 of 1							
Address: 228 East Champion Street #101 City: Bellingham State, Zip: WA, 98225 Phone: 360-752-9571 Email: agempier@all4inc.com Project Name: HF Sinclair 2025 GW Monitoring-C Site: HF Sinclair Puget Sound Refining LLC		Due Date Requested: TAT Requested (days): Standard PO #: Bill to ALL4, PO# 004631-0033.00 WO #: Project #: SSOW#:	Analysis Requested									
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD ()	NWTPH-Gx	BTEX (8260D)	NWTPH-Dx	Total Number of containers	Special Instructions/Note:
W-128		10/30/25	11:10	G	W	N	X	X	X		8	Please provide results to both HF Sinclair PSR and ALL4 Jim Schneider and Ava Gempier's E-Mails are: Jim.Schneider@HFSinclair.com agempier@all4inc.com
Trip Blanks		10/30/25	-	G	W	N	X	X			2	
Trip Blank filled by lab, labeled per lab instruction. Re-test date =												
Possible Hazard Identification		580-155373 Chain of Custody										
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Therm. ID: 3811 Cor: 1.4 Unc: 1.3 Cooler Desc: 3B UPS: PO Packing: 3B Blue Wet Melted Dry None Other:										
Deliverable Requested: I, II, III, IV, Other (Specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months										
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:								
Relinquished by:	Vanessa Spring	10/30/25	14:00	Company	ALL4	Received by:	10/31/25	0940	Company	ETN		
Relinquished by:		Date/Time:		Company		Received by:	Date/Time:		Company			
Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:										

Login Sample Receipt Checklist

Client: ALL4, Inc.

Job Number: 580-155373-1

SDG Number: HF Sinclair Puget Sound Refining LLC

Login Number: 155373

List Source: Eurofins Seattle

List Number: 1

Creator: Groves, Elizabeth

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	True	
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	
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.	False	Refer to Job Narrative for details.
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

ANALYTICAL REPORT

PREPARED FOR

Attn: Eric Libolt
ALL4, Inc.
228 East Champion Street #101
Bellingham, Washington 98225

Generated 12/8/2025 2:46:08 PM

JOB DESCRIPTION

HF Sinclair 2025 GW Monitoring - C
HF Sinclair Puget Sound Refining LLC

JOB NUMBER

580-156101-1

Eurofins Seattle

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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12/8/2025 2:46:08 PM

Authorized for release by
Meagann Russell, Project Management Assistant I
Meagann.Russell@et.eurofinsus.com
(253)922-2310

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Case Narrative

Client: ALL4, Inc.
Project: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1

Job ID: 580-156101-1

Eurofins Seattle

Job Narrative 580-156101-1

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 11/26/2025 10:40 AM. 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 2.6°C.

Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Seattle

Definitions/Glossary

Client: ALL4, Inc.

Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1

SDG: HF Sinclair Puget Sound Refining LLC

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: ALL4, Inc.

Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1

SDG: HF Sinclair Puget Sound Refining LLC

Client Sample ID: W-128

Lab Sample ID: 580-156101-1

Date Collected: 11/25/25 10:00

Matrix: Water

Date Received: 11/26/25 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/05/25 18:50	1
Toluene	ND		1.0		ug/L			12/05/25 18:50	1
Ethylbenzene	ND		1.0		ug/L			12/05/25 18:50	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/05/25 18:50	1
o-Xylene	ND		1.0		ug/L			12/05/25 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		12/05/25 18:50	1
4-Bromofluorobenzene (Surr)	105		80 - 120		12/05/25 18:50	1
Dibromofluoromethane (Surr)	97		80 - 120		12/05/25 18:50	1
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		12/05/25 18:50	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.15		mg/L			12/05/25 18:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		77 - 123		12/05/25 18:50	1

Client Sample Results

Client: ALL4, Inc.

Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1

SDG: HF Sinclair Puget Sound Refining LLC

Client Sample ID: Trip Blanks

Lab Sample ID: 580-156101-2

Date Collected: 11/25/25 00:00

Matrix: Water

Date Received: 11/26/25 10:40

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/05/25 18:03	1
Toluene	ND		1.0		ug/L			12/05/25 18:03	1
Ethylbenzene	ND		1.0		ug/L			12/05/25 18:03	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/05/25 18:03	1
o-Xylene	ND		1.0		ug/L			12/05/25 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		12/05/25 18:03	1
4-Bromofluorobenzene (Surr)	103		80 - 120		12/05/25 18:03	1
Dibromofluoromethane (Surr)	98		80 - 120		12/05/25 18:03	1
1,2-Dichloroethane-d4 (Surr)	89		80 - 120		12/05/25 18:03	1

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.15		mg/L			12/05/25 18:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		77 - 123		12/05/25 18:03	1

QC Sample Results

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1
SDG: HF Sinclair Puget Sound Refining LLC

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 580-509789/10

Matrix: Water

Analysis Batch: 509789

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.0		ug/L			12/05/25 16:42	1
Toluene	ND		1.0		ug/L			12/05/25 16:42	1
Ethylbenzene	ND		1.0		ug/L			12/05/25 16:42	1
m-Xylene & p-Xylene	ND		2.0		ug/L			12/05/25 16:42	1
o-Xylene	ND		1.0		ug/L			12/05/25 16:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120		12/05/25 16:42	1
4-Bromofluorobenzene (Surr)	104		80 - 120		12/05/25 16:42	1
Dibromofluoromethane (Surr)	96		80 - 120		12/05/25 16:42	1
1,2-Dichloroethane-d4 (Surr)	87		80 - 120		12/05/25 16:42	1

Lab Sample ID: LCS 580-509789/5

Matrix: Water

Analysis Batch: 509789

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	5.00	4.80		ug/L		96	80 - 122
Toluene	5.00	4.83		ug/L		97	80 - 120
Ethylbenzene	5.00	5.06		ug/L		101	80 - 120
m-Xylene & p-Xylene	5.00	5.15		ug/L		103	80 - 120
o-Xylene	5.00	4.99		ug/L		100	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	95		80 - 120
4-Bromofluorobenzene (Surr)	103		80 - 120
Dibromofluoromethane (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	86		80 - 120

Lab Sample ID: LCSD 580-509789/6

Matrix: Water

Analysis Batch: 509789

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	5.00	5.00		ug/L		100	80 - 122	4	14
Toluene	5.00	4.99		ug/L		100	80 - 120	3	13
Ethylbenzene	5.00	5.24		ug/L		105	80 - 120	3	14
m-Xylene & p-Xylene	5.00	5.29		ug/L		106	80 - 120	3	14
o-Xylene	5.00	5.19		ug/L		104	80 - 120	4	16

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120
4-Bromofluorobenzene (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	89		80 - 120

Eurofins Seattle

QC Sample Results

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1
SDG: HF Sinclair Puget Sound Refining LLC

Method: NWTPH-Gx - Northwest - Volatile Petroleum Products (GC/MS)

Lab Sample ID: MB 580-509784/10

Matrix: Water

Analysis Batch: 509784

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline	ND		0.15		mg/L			12/05/25 16:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		77 - 123					12/05/25 16:42	1

Lab Sample ID: LCS 580-509784/7

Matrix: Water

Analysis Batch: 509784

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline	1.00	1.12		mg/L		112	55 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	101		77 - 123				

Lab Sample ID: LCSD 580-509784/8

Matrix: Water

Analysis Batch: 509784

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline	1.00	1.12		mg/L		112	55 - 148	0	10
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
4-Bromofluorobenzene (Surr)	101		77 - 123						

Lab Chronicle

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1
SDG: HF Sinclair Puget Sound Refining LLC

Client Sample ID: W-128
Date Collected: 11/25/25 10:00
Date Received: 11/26/25 10:40

Lab Sample ID: 580-156101-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	509789	AA	EET SEA	12/05/25 18:50
Total/NA	Analysis	NWTPH-Gx		1	509784	AA	EET SEA	12/05/25 18:50

Client Sample ID: Trip Blanks
Date Collected: 11/25/25 00:00
Date Received: 11/26/25 10:40

Lab Sample ID: 580-156101-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Analysis	8260D		1	509789	AA	EET SEA	12/05/25 18:03
Total/NA	Analysis	NWTPH-Gx		1	509784	AA	EET SEA	12/05/25 18:03

Laboratory References:
EET SEA = Eurofins Seattle, 5755 8th Street East, Tacoma, WA 98424, TEL (253)922-2310

Accreditation/Certification Summary

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1
SDG: HF Sinclair Puget Sound Refining LLC

Laboratory: Eurofins Seattle

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Washington	State	C788	07-13-26

- 1
- 2
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- 9
- 10
- 11

Sample Summary

Client: ALL4, Inc.
Project/Site: HF Sinclair 2025 GW Monitoring - C

Job ID: 580-156101-1
SDG: HF Sinclair Puget Sound Refining LLC

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
580-156101-1	W-128	Water	11/25/25 10:00	11/26/25 10:40	Washington
580-156101-2	Trip Blanks	Water	11/25/25 00:00	11/26/25 10:40	Washington

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- 5
- 6
- 7
- 8
- 9
- 10
- 11

Eurofins Seattle

5755 8th Street East
Tacoma, WA 98424
Phone (253) 922-2310

Chain of Custody Record

Client Information		Sample:	Lab P/N:	Carrier Tracking No(s):		COC No:
Client Contact:	Ava Gempier	Phone: 360-752-9571	Meagan Russell	FedEx		Page: 1 of 1
Company:	ALL4 LLC		Meagan.Russell@eurofins.com			Job #:
Address:		228 East Champion Street #101	Due Date Requested:		Analysis Requested	
City:	Bellevue		TAT Requested (days):			
State, Zip:	WA, 98125		Standard			
Phone:	360-752-9571	PO #:	Bill to ALL4, PO# 004531-0033.00			
Email:	agempier@all4inc.com	WO #:				
Project Name:	HF Sinclair 2025 GW Monitoring-C	Project #:				
Site:	HF Sinclair Puget Sound Refining LLC	SSOW#:				
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=Water, S=solid, O=soil, B=biomass, A=air)	Field Filtered Sample (Yes or No)
W-128		11/25/25	10:00	G	W	N
Trip Blanks		11/25/25	--	G	W	N
Tip: Blank bottles were pre-filled by lab, and labeled with the date the sample bottles were filled per lab instruction, for sample login purposes.						
580-156101 Chain of Custody		580-156101 COC				
Possible Hazard Identification		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)				
Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months				
Deliverable Requested: I, II, III, IV, Other (specify)		Special Instructions/QC Requirements:				
Empty Kit Relinquished by:		Date:	Time:	Method of Shipment:		
Relinquished by: Vanessa Spring		11/25/25	12:30	Received by: [Signature]		
Relinquished by:		Date/Time:	Company:	Received by:		
Relinquished by:		Date/Time:	Company:	Received by:		
Custody Seals Intact: ☐ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		

Therm. ID: 15 Cur: 2.6 °C Unc: 2.6 °C

Cooler Desc: 5A

Packing: 246

Lab Count: 2

Blue ☒ Melted Dry None Other:

Jim Schneider and Ava Gempier's E-Mails are:
jim.schneider@hf-sinclair.com
agempier@all4inc.com

Login Sample Receipt Checklist

Client: ALL4, Inc.

Job Number: 580-156101-1

SDG Number: HF Sinclair Puget Sound Refining LLC

Login Number: 156101

List Source: Eurofins Seattle

List Number: 1

Creator: Groves, Elizabeth

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ 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.	True	
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	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	