

2024 GROUNDWATER MONITORING REPORT

Nonene Loading Rack

HF SINCLAIR PUGET SOUND REFINERY

JULY 30, 2024

SUBMITTED BY: SUBMITTED TO:



ALL4 LLC

228 East Champion Street, Suite 101 Bellingham, WA 98225

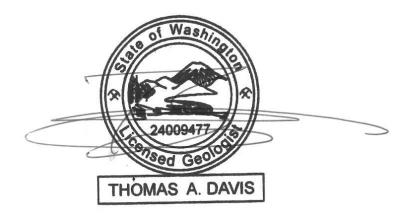


HF Sinclair Puget Sound Refining LLC

8505 South Texas Road Anacortes, WA 98221

CERTIFICATION STATEMENT

All geologic and hydrogeologic work performed pursuant to this report was conducted under the supervision and direction of the geologist listed below:

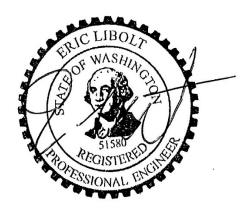


8/6/2024

Thom Davis L.G.

Date

All engineering work performed pursuant to this report was conducted under the supervision and direction of the engineer listed below:



7/30/2024

Eric Libolt P.E.

Date

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1. INTRODUCTION

A release of nonene to the ground occurred at the HF Sinclair Puget Sound Refining, LLC (HFSPSR) nonene loading rack on October 23, 2011. A clogged oily water sewer drain caused the nonene to overflow the loading rack drainage sump. The nonene overflowed into the surrounding rail line ballast-rock. The nonene release location is shown on Figure A-2.

The release and subsequent site characterization work was documented in a report prepared by Whatcom Environmental Services for Shell Puget Sound Refinery dated January 11, 2012 (WES, 2012a). Annual Groundwater Monitoring Reports summarizing the groundwater conditions at the site in 2012 through 2023 were completed and submitted to the client (WES, 2012b; WES, 2014; WES, 2015(2); WES, 2016; WES, 2017; WES, 2018; WES, 2019; WES, 2020; WES, 2021; WES, 2022; ALL4 LLC, 2024).

On February 10, 2015, the Washington State Department of Ecology (Ecology) submitted a letter to the client following their review of the annual 2014 summary document that stated that the monitoring frequency of the site may be reduced to annual from quarterly (Ecology, 2015). The letter from Ecology is included in Appendix A.

The annual groundwater sample was collected on May 13, 2024. This report documents the 2024 groundwater monitoring results and should be used in conjunction with the previous reports to document the condition of groundwater at the nonene loading rack release site.

Gasoline and diesel range total petroleum hydrocarbons (TPH) were detected in groundwater at the site in 2024. The laboratory analytical results showed that groundwater concentrations of diesel range contaminants, gasoline range contaminants, and BTEX constituents (benzene, toluene, ethylbenzene, and total xylenes) were below the applicable MTCA Method A target groundwater cleanup levels.



2. SITE DESCRIPTION

The HFSPSR site is located at 8505 South Texas Road in Anacortes, Washington on March Point. The property is zoned for heavy industry. The site is located in the northwest quarter of the northwest quarter of Section 4 in Township 34 North, Range 2 east. Mr. Jim Schneider is the facility contact for the nonene site (360) 293-0868.

2.1 SURROUNDING AREA AND SITE TOPOGRAPHY

The HFSPSR site is bordered on the north by North Texas Road and the Marathon Refinery, on the east by East March Point Road, on the south by South Texas Road, and on the west by West March Point Road. Fidalgo Bay is located approximately 0.25 miles west of the site and Padilla Bay is located approximately 1.25 miles to the east. The city of Anacortes, Washington is located approximately 3.75 miles to the northwest of the site.

The median elevation of the nonene loading rack site is approximately 70 feet above mean sea level. The site generally slopes towards the west but is made up of two relatively level areas; one approximately 75 feet above sea level (loading rack), and the other approximately 65 feet above sea level (monitoring well location).

2.2 SITE GEOLOGY

The subject property is located in the northern portion of the Puget Sound Basin. The region is characterized by thick sequences of Pleistocene glacial advance outwash and meltwater deposits that were deposited on a basement of tectonically deformed ancient sedimentary and metamorphic bedrock. The glacial deposits have been reworked by more recent fluvial, lacustrine, and aeolian actions into the landforms present today.

The HFSPSR site is underlain by glacial till of the Vashon Stade (WDNR, 2000). The till consists of dense, unsorted diamicton which includes clast sizes ranging from boulders to clay. The unit contains localized areas of laminated silt and fine sand. Smaller clasts are generally subangular to rounded while boulders



tend to be polished, faceted and striated. The unit ranges in color from gray and olive-gray to brown and yellowish-brown, depending on lithologic content and oxidation state. The thickness of the unit is from less than 1 meter to a maximum of approximately 25 meters.

2.3 SITE HYDROGEOLOGY

A groundwater monitoring well (W-129) was installed at the site in November 2011 at the location shown on Figure A-2. Groundwater was first encountered at approximately 16 feet below ground surface (bgs). All cuttings and split-spoon samples appeared dry to moist above that depth. Following completion of the well, groundwater levels gradually rose to approximately 1 foot below the ground surface in the well. This may indicate that the well was completed in a confined aquifer as soils did not appear to be saturated during the drilling of the well until the well reached approximately 16 feet in depth.

Based on numerous groundwater wells and historic groundwater studies conducted at the HFSPSR site, the general direction of groundwater flow follows the topography and flows to the west/southwest on the west side of March Point.



3. GROUNDWATER SAMPLING

One groundwater sample was collected from monitoring well W-129 on May 13, 2024. The groundwater sample was analyzed at Eurofins Environment Testing Northwest environmental laboratory for diesel range TPH using method NWTPH-Dx, gasoline range TPH using method NWTPH-Gx, and BTEX constituents using method EPA-8260.

Prior to the sampling event, the depth to water in well W-129 was measured from the top of the PVC well casing with an electronic well probe and recorded in the field notebook. The depth to water recorded in 2024 is presented on Table B-1. The groundwater sample was collected using a low-flow sampling procedure in accordance with EPA sampling guidelines (EPA, 2017). A YSI 556 multi-parameter water quality meter was used to monitor the groundwater chemistry during well purging prior to sample collection. The groundwater sample was collected after groundwater chemistry parameters had stabilized. The final groundwater chemistry parameters representing stable groundwater conditions are summarized in Table B-2.

The sample was collected in sample bottles provided by Eurofins and stored on ice in a cooler immediately following collection. All sample containers included a sample label indicating the sample identification, the project name, the sampling date and time, and the sampler's name. Standard industry protocols regarding sample preservation, chain-of-custody, and shipping were followed.



4. GROUNDWATER SAMPLING RESULTS

Groundwater analytical data are summarized in Table B-1. Stable groundwater chemistry parameters recorded prior to sample collection are presented in Table B-2. The original groundwater laboratory analytical data reports are included in Appendix D.

Gasoline range TPH was detected in the groundwater during the sampling event in 2024. Gasoline range TPH was detected at a concentration of 950 μ g/L, which is below the MTCA Method A target cleanup level for gasoline range TPH without the presence of benzene or other BTEX constituents.

Diesel range TPH was detected in the groundwater during the sampling event in 2024. Diesel range TPH was detected at a concentration of 260 μ g/L, which is below the MTCA Method A target cleanup level for diesel range TPH. Oil range TPH was not detected.

No BTEX constituents were detected in 2024 at concentrations exceeding the laboratory reporting limit.



5. **CONCLUSIONS**

One groundwater sample was collected from monitoring well W-129 in 2024 and analyzed for gasoline and diesel range TPH, and BTEX constituents. The laboratory analytical results indicated that concentrations of gasoline and diesel range TPH, as well as BTEX constituents, did not exceed the MTCA Method A target cleanup levels in 2024. The site is underlain by silt and clay which will limit the vertical migration of contamination.



6. LIMITATIONS

This environmental report is based on conditions that existed at the time the investigation was performed, and samples collected. The findings and conclusions of this report may be affected by the passage of time, by manmade events such as construction on or adjacent to the site, or by natural events such as floods, earthquakes, ground instability, or groundwater fluctuations.

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

This report has been prepared for use by HFSPSR by ALL4 LLC. ALL4 prepares a report for the client's exclusive use for a particular project and in accordance with generally accepted practices at the time of investigation. This report was prepared for exclusive use by the client and its agents and may not be used, relied upon, or assigned to a third party without written consent from ALL4. This report is not intended for use by others, and the information contained herein is not applicable to other sites. This report may be made available to regulatory agencies.



7. REFERENCES

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- Washington State Department of Ecology. 2007. The Model Toxics Control Act Cleanup Regulation, Chapter 173-340 WAC. Toxics Cleanup Program. Amended November 2007. Publication No. 94-06.
- Washington State Department of Ecology. February 10, 2015. Re: Ecology Review of 2014 Groundwater Monitoring Report: Nonene Loading Rack, Shell Puget Sound Refinery.
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- Whatcom Environmental Services, Inc. June 16, 2022. 2022 Groundwater Monitoring Report, Nonene Loading Rack, HollyFrontier Puget Sound Refinery. Prepared for HollyFrontier Puget Sound Refining LLC.
- ALL4 LLC. April 3, 2024. 2023 Groundwater Monitoring Report, Nonene Loading Rack, HF Sinclair Puget Sound Refinery. Prepared for HF Sinclair Puget Sound Refining LLC.

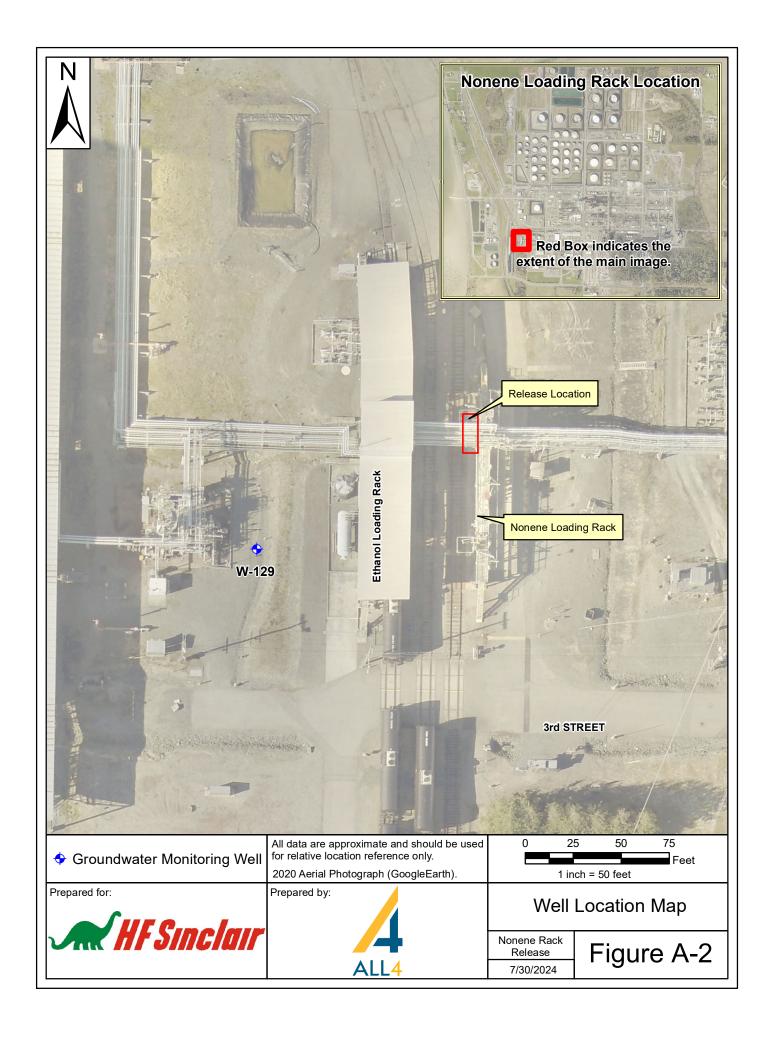
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Table B-1 Groundwater Sample Analytical Results Hf Sinclair PSR Nonene Loading Rack

| | Depth | NWTPH-Dx | NWTPH-Dx | NWTPH-Gx | EPA-8260 | EPA-8260 | EPA-8260 | EPA-8260 |
|------------------------------|-------------------|--------------|----------------|-------------------------|-----------|------------------|--------------|-----------|
| Sample ID | to Water | Diesel Range | Lube-oil Range | Gasoline Range | Benzene | Toluene | Ethylbenzene | Xylenes |
| Units: | (ft below casing) | (ug/L) | (ug/L) | (ug/L) | (ug/L) | L) (ug/L) (ug/L) | | (ug/L) |
| MTCA Method A Cleanup Levels | | 500 | 500 | 800/1000 ^(a) | 5 | 1,000 | 700 | 1,000 |
| NONENE (W-129) | | | | | | | | |
| 12/5/11 | *4.08 | ND(<130) | ND(<250) | 1,300 | ND(<0.12) | ND(<0.20) | ND(<0.10) | ND(<0.91) |
| 3/21/12 | 3.83 | 750 | ND(<240) | 260 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<1.0) |
| 6/25/12 | 3.81 | 360 | ND(<240) | 420 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<1.0) |
| 9/18/12 | 5.64 | 230 | ND(<240) | 530 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<1.0) |
| 11/20/12 | 3.39 | 510 | ND(<240) | 570 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<1.0) |
| 2/19/13 | 3.69 | 660 | ND(<240) | 160 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<1.0) |
| 4/22/13 | 3.73 | 460 | ND(<240) | 92 | ND(<0.5) | 2.1 | ND(<0.5) | ND(<1.0) |
| 7/31/13 | 5.07 | 130 | ND(<240) | 200 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<1.0) |
| 11/25/13 | 4.15 | 190 | ND(<240) | 510 | ND(<1.0) | ND(<1.0) | ND(<1.0) | ND(<3.0) |
| 3/19/14 | 3.66 | 200 | ND(<240) | 510 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<2.0) |
| 6/11/14 | 4.90 | 190 | ND(<240) | 870 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<2.0) |
| 8/5/14 | 4.87 | 210 | ND(<240) | 820 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<2.0) |
| 11/11/14 | 4.02 | 150 | ND(<260) | 780 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<2.0) |
| 8/25/15 | 6.63 | ND(<210) | ND(<480) | 790 | ND(<0.5) | ND(<0.5) | ND(<0.5) | ND(<2.0) |
| 8/10/16 | 5.93 | ND(<120) | ND(<270) | 410 | ND(<2.0) | ND(<2.0) | ND(<3.0) | ND(<2.0) |
| 8/3/17 | 6.20 | 120 | ND(<270) | 470 | ND(<0.4) | ND(<1.0) | ND(<1.0) | ND(<3.0) |
| 6/26/18 | 5.10 | 130 | ND(<360) | 590 | ND(<3.0) | ND(<2.0) | ND(<3.0) | ND(<3.0) |
| 8/7/19 | 5.32 | 200 | ND(<370) | 130 | ND(<3.0) | ND(<2.0) | ND(<3.0) | ND(<3.0) |
| 8/11/20 | 5.40 | 130 | ND(<360) | 640 | ND(<3.0) | ND(<2.0) | ND(<3.0) | ND(<3.0) |
| 5/4/21 | 4.50 | 150 | ND(<370) | 1,200 | ND(<0.2) | ND(<0.2) | ND(<0.2) | ND(<0.5) |
| 2/28/22 | 3.84 | 140 | ND(<350) | 480 | ND(<1.0) | ND(<1.0) | ND(<1.0) | ND(<2.0) |
| 3/6/23 | 3.96 | 190 | ND(<360) | 730 | ND(<1.0) | ND(<1.0) | ND(<1.0) | ND(<2.0) |
| 5/13/24 | 4.24 | 260 | ND(<340) | 950 | 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.

Table B-2 Groundwater Chemistry Parameters Hf Sinclair PSR Nonene Loading Rack

| Sample ID | Temperature | Electrical Conductivity | Total Dissolved Solids | Salinity | Dissolved Oxygen | рН | Oxidation/Reduction Potential |
|----------------|-------------|----------------------------|------------------------------|----------|---------------------|------------|----------------------------------|
| Units: | (°C) | (mS/cm) | (g/L) | (ppt) | (mg/L) | (pH units) | (mV) |
| NONENE (W-129) | | | | | | | |
| 12/5/11 | 11.77 | 0.577 | 0.375 | 0.28 | 0.60 | 7.95 | 64.50 |
| 3/21/12 | 9.95 | 0.584 | 0.379 | 0.28 | 0.08 | 8.00 | -22.60 |
| 6/25/12 | 13.09 | 0.566 | 0.368 | 0.28 | 0.03 | 7.91 | -46.80 |
| 9/18/12* | | | | | | | |
| 11/20/12 | 12.79 | 0.631 | 0.410 | 0.31 | 0.63 | 7.69 | 9.30 |
| 2/19/13 | 10.24 | 0.584 | 0.380 | 0.29 | 0.02 | 7.60 | -60.90 |
| 4/22/13 | 11.30 | 0.587 | 0.381 | 0.29 | 0.02 | 7.70 | -40.10 |
| 7/31/13 | 15.26 | 0.577 | 0.375 | 0.28 | 0.01 | 7.83 | -38.90 |
| 11/25/13 | 12.62 | 0.640 | 0.416 | 0.31 | 0.56 | 7.97 | 66.00 |
| 3/19/14 | 10.15 | 0.609 | 0.396 | 0.30 | 0.02 | 7.74 | -18.70 |
| 6/11/14 | 16.04 | 0.589 | 0.383 | 0.29 | 0.02 | 7.84 | 25.00 |
| 8/5/14 | 15.17 | 0.625 | 0.406 | 0.31 | 0.61 | 8.15 | 11.70 |
| 11/11/14 | 13.92 | 0.646 | 0.420 | 0.32 | 0.58 | 8.24 | 20.50 |
| 8/25/15 | 17.31 | 0.595 | 0.387 | 0.29 | 0.63 | 7.75 | 113.10 |
| 8/10/16 | 18.02 | 0.616 | 0.400 | 0.30 | 0.15 | 8.08 | -90.90 |
| 8/3/17 | 18.46 | 0.583 | 0.379 | 0.28 | 0.18 | 8.65 | -18.80 |
| 6/26/18 | 15.92 | 0.582 | 0.578 | 0.28 | 0.19 | 7.43 | 43.80 |
| 8/7/19 | 16.67 | 0.640 | 0.416 | 0.31 | 0.12 | 7.81 | -37.20 |
| 8/11/20 | 17.73 | 0.617 | 0.401 | 0.30 | 0.27 | 7.53 | -14.50 |
| 5/4/21 | 12.93 | 0.623 | 0.405 | 0.30 | 0.65 | 7.39 | 8.40 |
| 2/28/22 | 9.22 | 0.594 | 0.386 | 0.29 | 0.64 | 6.84 | 105.00 |
| 3/6/23 | 10.20 | 0.646 | 0.420 | 0.32 | 0.39 | 7.50 | 80.40 |
| 5/13/24 | 13.60 | 0.617 | 0.401 | 0.30 | 0.23 | 3.66 | 241.30 |

Data collected using a YSI 556 MPS water meter

^{*} Parameters not recorded due to meter error

APPENDIX C -LETTER TO SHELL FROM ECOLOGY GRANTING PERMISSION FOR ANNUAL MONITORING – FEBRUARY 10, 2015



STATE OF WASHINGTON DEPARTMENT OF ECOLOGY

PO Box 47600 • Olympia, WA 98504-7600 • 360-407-6000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

February 10, 2015

Mr. Gary Barklind Shell Oil Products US 8505 S. Texas Road PO Box 622 Anacortes, WA 98221-0622

Re: Ecology Review of 2014 Groundwater Monitoring Report: Nonene Loading Rack,

Shell Puget Sound Refinery

Mr. Barklind:

The Washington State Department of Ecology (Ecology) has reviewed the 2014 Groundwater Monitoring Report: Nonene Loading Rack for the Shell Oil Puget Sound Refinery site. This report provides background on the release of nonene to the ground (rail line ballast rock) on October 21, 2011 and subsequent groundwater monitoring, including four rounds of monitoring in 2014. The release of nonene was characterized and then described in a 2012 Independent Remedial Action Report (IRAP) for the Nonene Loading Rack. The IRAP describes the analysis of two extractable and volatile soil samples that may pose a threat to human health and potable groundwater and the installation of one groundwater monitoring well.

Since the release of nonene in 2011, quarterly groundwater monitoring has been performed at one well (W-129) with analysis for petroleum hydrocarbons and BTEX. Results of the groundwater monitoring demonstrate a decreasing trend for diesel range hydrocarbons and only one exceedance of MTCA Method A cleanup levels for gasoline range hydrocarbons during the first round in 2011. There have been no BTEX exceedances.

Without additional soil sampling and analysis, Ecology assumes the soil remains at concentrations that may pose a threat to human health or potable groundwater. Ecology therefore agrees that the frequency of groundwater monitoring can be reduced from quarterly to an annual basis beginning the first quarter of 2015.

(R) critical in local

If you have any questions regarding this letter, please contact me at (360) 407-6999 or Guy.Barrett@ecy.wa.gov. Thank you.



Mr. Gary Barklind February 10, 2015 Page 2 of 2

Sincerely,

Guy Barrett, LHG

Site Manager

Industrial Section

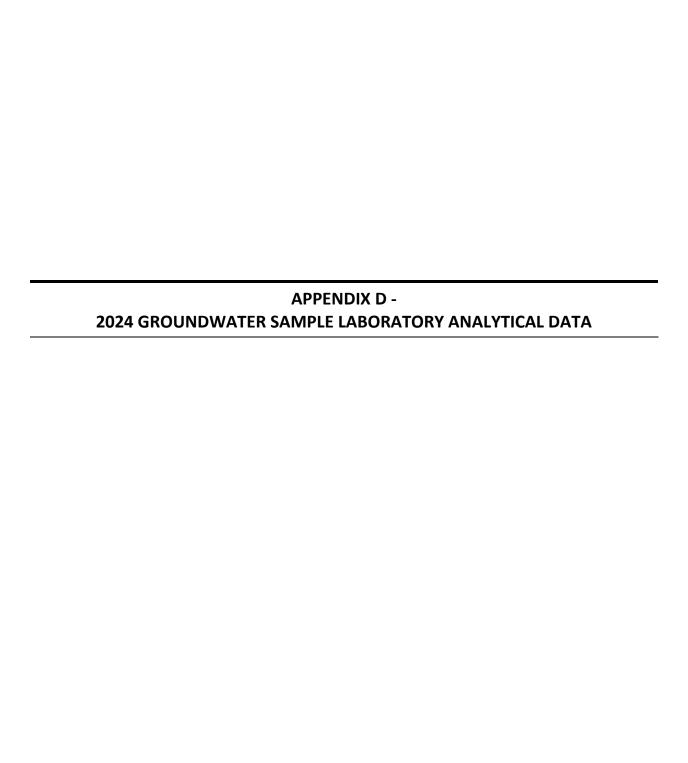
Waste 2 Resources Program

cc:

Mark Dirkx, Ecology

Kim Wigfield, Ecology

By Certified Mail # 91 7199 9991 7032 9431 7488



10

PREPARED FOR

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Attn: Eric Libolt ALL 4, LLC 228 East Champion Street #101 Bellingham, Washington 98225

ANALYTICAL REPORT

JOB DESCRIPTION

PSR: Nonene Loading Rack Site GW Monitoring Washington

JOB NUMBER

580-139993-1

Eurofins Seattle 5755 8th Street East Tacoma WA 98424

Eurofins Seattle

Job Notes

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Authorization

La Fr

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Authorized for release by Laura Schick, Project Manager <u>Laura.Schick@et.eurofinsus.com</u> (253)922-2310

Eurofins Seattle is a laboratory within Eurofins Environment Testing Northwest, LLC, a company within Eurofins Environment Testing Group of Companies

Laboratory Job ID: 580-139993-1 SDG: Washington

Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

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Case Narrative

Client: ALL 4, LLC Job ID: 580-139993-1

Project: PSR: Nonene Loading Rack Site GW Monitoring

Job ID: 580-139993-1 Eurofins Seattle

Job Narrative 580-139993-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers are applied to indicate exceptions. Noncompliant quality control (QC) is further explained in narrative comments.

- Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- · Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 5/14/2024 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 0.8°C.

Receipt Exceptions

Field sampler name was not provided on COC: W-129 (580-139993-1) and Trip Blanks (580-139993-2).

No sample collection time or date provided for Trip Blanks on COC or sample containers. Trip blanks were logged using a date of 5/13/24 and time of 0001. Trip Blanks (580-139993-2).

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

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Definitions/Glossary

Client: ALL 4, LLC

Job ID: 580-139993-1

Project/Site: PSR: Nonene Loading Rack Site GW Monitoring SDG: Washington

Glossary

MCL

MDA

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| n | 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) |

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)

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Activity (Radiochemistry)

 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

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- 0

Client Sample Results

Client: ALL 4, LLC Job ID: 580-139993-1 SDG: Washington

Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

Lab Sample ID: 580-139993-1

Matrix: Water

Date Collected: 05/13/24 11:35 Date Received: 05/14/24 09:40

Client Sample ID: W-129

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Benzene | MD | | 1.0 | | ug/L | | | 05/15/24 00:32 | 1 |
| Toluene | ND | | 1.0 | | ug/L | | | 05/15/24 00:32 | 1 |
| Ethylbenzene | ND | | 1.0 | | ug/L | | | 05/15/24 00:32 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | | ug/L | | | 05/15/24 00:32 | 1 |
| o-Xylene | ND | | 1.0 | | ug/L | | | 05/15/24 00:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 107 | | 80 - 120 | | | _ | | 05/15/24 00:32 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 95 | | 80 - 120 | | | | | 05/15/24 00:32 | 1 |
| 4-Bromofluorobenzene (Surr) | 108 | | 80 - 120 | | | | | 05/15/24 00:32 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 80 - 120 | | | | | 05/15/24 00:32 | 1 |

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|---------------------|-----------|---------------|-----|------|---|----------------|----------------|---------|
| Gasoline | 0.95 | | 0.15 | | mg/L | | | 05/15/24 00:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 108 | | 77 - 123 | | | | | 05/15/24 00:32 | 1 |
| - Method: NWTPH-Dx - Northw | est - Semi-Volatile | Petroleum | Products (GC) | | | | | | |
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| #2 Diesel (C10-C24) | 0.26 | | 0.20 | | mg/L | | 05/15/24 08:39 | 05/15/24 16:17 | 1 |
| Motor Oil (>C24 C26) | ND | | 0.24 | | ma/l | | 05/45/24 00:20 | 05/15/24 16:17 | - 1 |

5/16/2024

Client Sample Results

Client: ALL 4, LLC
Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

Job ID: 580-139993-1
SDG: Washington

r rejection r ort. Noticine Escaring reaction of wormoning

Lab Sample ID: 580-139993-2

Matrix: Water

Date Collected: 05/13/24 00:01 Date Received: 05/14/24 09:40

Client Sample ID: Trip Blanks

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Benzene | MD | | 1.0 | | ug/L | | | 05/14/24 19:53 | 1 |
| Toluene | ND | | 1.0 | | ug/L | | | 05/14/24 19:53 | 1 |
| Ethylbenzene | ND | | 1.0 | | ug/L | | | 05/14/24 19:53 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | | ug/L | | | 05/14/24 19:53 | 1 |
| o-Xylene | ND | | 1.0 | | ug/L | | | 05/14/24 19:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 96 | | 80 - 120 | | | - | | 05/14/24 19:53 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 80 - 120 | | | | | 05/14/24 19:53 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 80 - 120 | | | | | 05/14/24 19:53 | 1 |
| Dibromofluoromethane (Surr) | 103 | | 80 - 120 | | | | | 05/14/24 19:53 | |

| Method: NWTPH-Gx - Northwe | est - Volatile Petro | oleum Prod | ucts (GC/MS) | | | | | | |
|-----------------------------|----------------------|------------|--------------|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Gasoline | ND | | 0.15 | | mg/L | | | 05/14/24 19:53 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 100 | | 77 - 123 | | | _ | | 05/14/24 19:53 | 1 |

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5/16/2024

Client: ALL 4, LLC

Job ID: 580-139993-1 Project/Site: PSR: Nonene Loading Rack Site GW Monitoring SDG: Washington

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

Lab Sample ID: MB 580-459409/11

Matrix: Water

Analysis Batch: 459409

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

| | MB | MB | | | | | | | |
|---------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
| Benzene | ND | | 1.0 | | ug/L | | | 05/14/24 19:06 | 1 |
| Toluene | ND | | 1.0 | | ug/L | | | 05/14/24 19:06 | 1 |
| Ethylbenzene | ND | | 1.0 | | ug/L | | | 05/14/24 19:06 | 1 |
| m-Xylene & p-Xylene | ND | | 2.0 | | ug/L | | | 05/14/24 19:06 | 1 |
| o-Xylene | ND | | 1.0 | | ug/L | | | 05/14/24 19:06 | 1 |
| | | | | | | | | | |

мв мв

| | 11.10 | III D | | | | | | |
|------------------------------|-----------|-----------|----------|---|----------|----------------|---------|--|
| Surrogate | %Recovery | Qualifier | Limits | F | Prepared | Analyzed | Dil Fac | |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | | 05/14/24 19:06 | 1 | |
| 1,2-Dichloroethane-d4 (Surr) | 94 | | 80 - 120 | | | 05/14/24 19:06 | 1 | |
| 4-Bromofluorobenzene (Surr) | 103 | | 80 - 120 | | | 05/14/24 19:06 | 1 | |
| Dibromofluoromethane (Surr) | 101 | | 80 - 120 | | | 05/14/24 19:06 | 1 | |
| | | | | | | | | |

Lab Sample ID: LCS 580-459409/6

Matrix: Water

Analysis Batch: 459409

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

| | Spike | LCS | LCS | | | %Rec | |
|---------------------|-------|--------|--------------|------|------|----------|--|
| Analyte | Added | Result | Qualifier Un | it D | %Rec | Limits | |
| Benzene | 5.00 | 4.90 | ug/ | L – | 98 | 80 - 122 | |
| Toluene | 5.00 | 5.24 | ug/ | L | 105 | 80 - 120 | |
| Ethylbenzene | 5.00 | 5.40 | ug/ | L | 108 | 80 - 120 | |
| m-Xylene & p-Xylene | 5.00 | 5.51 | ug/ | L | 110 | 80 - 120 | |
| o-Xylene | 5.00 | 5.47 | ug/ | L | 109 | 80 - 120 | |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| Toluene-d8 (Surr) | 98 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 93 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 104 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 102 | | 80 - 120 |

Lab Sample ID: LCSD 580-459409/7

Matrix: Water

Analysis Batch: 459409

| Client Sample ID: I | _ab Control Sample Dup |
|---------------------|------------------------|
| | Prep Type: Total/NA |

| | Spike | LCSD | LCSD | | | | %Rec | | RPD |
|---------------------|-------|--------|-----------|------|---|------|----------|-----|-------|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| Benzene | 5.00 | 4.87 | | ug/L | | 97 | 80 - 122 | 1 | 14 |
| Toluene | 5.00 | 5.23 | | ug/L | | 105 | 80 - 120 | 0 | 13 |
| Ethylbenzene | 5.00 | 5.40 | | ug/L | | 108 | 80 - 120 | 0 | 14 |
| m-Xylene & p-Xylene | 5.00 | 5.36 | | ug/L | | 107 | 80 - 120 | 3 | 14 |
| o-Xylene | 5.00 | 5.47 | | ug/L | | 109 | 80 - 120 | 0 | 16 |

LCSD LCSD

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| Toluene-d8 (Surr) | 98 | | 80 - 120 |
| 1,2-Dichloroethane-d4 (Surr) | 92 | | 80 - 120 |
| 4-Bromofluorobenzene (Surr) | 105 | | 80 - 120 |
| Dibromofluoromethane (Surr) | 103 | | 80 - 120 |

Eurofins Seattle

5/16/2024

Client: ALL 4, LLC

Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

SDG: Washington

Job ID: 580-139993-1

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

Lab Sample ID: MB 580-459410/11

Matrix: Water

Analysis Batch: 459410

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

мв мв Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac ND 0.15 mg/L 05/14/24 19:06

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 103 77 - 123 05/14/24 19:06

Lab Sample ID: LCS 580-459410/8 Client Sample ID: Lab Control Sample Prep Type: Total/NA

Matrix: Water

Analyte

Gasoline

Analysis Batch: 459410

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit D %Rec Limits Gasoline 0.500 0.589 118 mg/L 55 - 148

LCS LCS Surrogate Qualifier %Recovery

Limits 4-Bromofluorobenzene (Surr) 100 77 - 123

Lab Sample ID: LCSD 580-459410/9 Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

Matrix: Water

Analysis Batch: 459410

LCSD LCSD RPD Spike %Rec Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit Gasoline 0.500 0.600 10 mg/L 120 55 - 148

LCSD LCSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 101 77 - 123

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

Lab Sample ID: MB 580-459467/1-A Client Sample ID: Method Blank

Matrix: Water Prep Type: Total/NA Analysis Batch: 459481 **Prep Batch: 459467** MB MB

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed #2 Diesel (C10-C24) ND 0.20 05/15/24 08:39 05/15/24 13:30 mg/L Motor Oil (>C24-C36) ND 0.35 mg/L 05/15/24 13:30 05/15/24 08:39

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 59 50 - 150 05/15/24 08:39 05/15/24 13:30 o-Terphenyl

Lab Sample ID: LCS 580-459467/2-A Client Sample ID: Lab Control Sample

Matrix: Water Analysis Batch: 459481

Prep Batch: 459467

| | Spike | LCS | LCS | | | | %Rec | |
|----------------------|-------|--------|-----------|------|---|------|----------|--|
| Analyte | Added | Result | Qualifier | Unit | D | %Rec | Limits | |
| #2 Diesel (C10-C24) | 4.00 | 3.31 | | mg/L | | 83 | 50 - 120 | |
| Motor Oil (>C24-C36) | 4.00 | 3.56 | | mg/L | | 89 | 64 - 120 | |

Eurofins Seattle

5/16/2024

Prep Type: Total/NA

QC Sample Results

Client: ALL 4, LLC

Job ID: 580-139993-1

Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

SDG: Washington

Spike

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

Lab Sample ID: LCS 580-459467/2-A

Matrix: Water

Surrogate

Analyte

o-Terphenyl

Analysis Batch: 459481

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 459467

LCS LCS

 %Recovery
 Qualifier
 Limits

 50 - 150

Lab Sample ID: LCSD 580-459467/3-A

Matrix: Water

#2 Diesel (C10-C24)

Motor Oil (>C24-C36)

Analysis Batch: 459481

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 459467

%Rec RPD
Limits RPD Limit

Added Result Qualifier Unit D %Rec 4.00 3.06 mg/L 76 50 - 120 8 26 4.00 3.26 mg/L 81 64 - 120 9 24

LCSD LCSD

LCSD LCSD

Eurofins Seattle

Lab Chronicle

Client: ALL 4, LLC

Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

SDG: Washington

Client Sample ID: W-129 Lab Sample ID: 580-139993-1

Date Collected: 05/13/24 11:35

Date Received: 05/14/24 09:40

Matrix: Water

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 459409 | AA | EET SEA | 05/15/24 00:32 |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 459410 | AA | EET SEA | 05/15/24 00:32 |
| Total/NA | Prep | 3510C | | | 459467 | TOA | EET SEA | 05/15/24 08:39 |
| Total/NA | Analysis | NWTPH-Dx | | 1 | 459481 | SW | EET SEA | 05/15/24 16:17 |

Client Sample ID: Trip Blanks Lab Sample ID: 580-139993-2

Date Collected: 05/13/24 00:01 Matrix: Water

Date Received: 05/14/24 09:40

| | Batch | Batch | | Dilution | Batch | | | Prepared |
|-----------|----------|----------|-----|----------|--------|---------|---------|----------------|
| Prep Type | Туре | Method | Run | Factor | Number | Analyst | Lab | or Analyzed |
| Total/NA | Analysis | 8260D | | 1 | 459409 | AA | EET SEA | 05/14/24 19:53 |
| Total/NA | Analysis | NWTPH-Gx | | 1 | 459410 | AA | EET SEA | 05/14/24 19:53 |

Laboratory References:

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

5/16/2024

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Accreditation/Certification Summary

Client: ALL 4, LLC
Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

SDG: Washington

Laboratory: Eurofins Seattle

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

| Authority | Program | Identification Number | Expiration Date |
|------------|---------|-----------------------|-----------------|
| Washington | State | C788 | 07-13-24 |

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Sample Summary

Client: ALL 4, LLC

Project/Site: PSR: Nonene Loading Rack Site GW Monitoring

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received | | |
|---------------|------------------|--------|----------------|----------------|--|--|
| 580-139993-1 | W-129 | Water | 05/13/24 11:35 | 05/14/24 09:40 | | |
| 580-139993-2 | Trip Blanks | Water | 05/13/24 00:01 | 05/14/24 09:40 | | |

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Job ID: 580-139993-1

SDG: Washington

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Eurofins Seattle

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

Chain of Custody Record

| 9.6 | | | | | - | * | | | | |
|------|---|---|---|---|---|---|---|---|---|--|
| 4 4 | e | u | r | 0 | T | I | ľ | ١ | S | |
| • ** | _ | | | _ | | - | 6 | - | - | |

Environment Testing TestAmerica

| Phone (253) 922-2310 | | | | | | | | | | | | | | | entra a menerona | | | | | |
|--|---|----------------|---------------------------------------|--|--------------------|---|----------|---------------|-----------------------|------|------------|-------------------------|---------------------|--------------------|---|----------|----------------------|--|--|--------|
| Client Information | Sc | | | | | ick, Laura. | | | | | | Carrier Tracking No(s): | | | | | COC No: | | | |
| Dient Contact: Jim Schneider | | | | | -Mail: aura.S | ail: ra.Schick@ET.EurofinsUS.com | | | | | | FedEx | | | | | Page: Page 1 of 1 | | | |
| Company: HF Sinclair Puget Sound Refining LLC Mal HF Stacker | | | | | | Analysis Re | | | | | Req | quested | | | | | Job #: | | | |
| oddress: 18505 S. Texas Road | Due Date Requested: | | | | | | | | | | | | | T | | | | Preservation Cod | les: | |
| City: Anacortes | TAT Requested (days): | | | | | $\neg \Box \Box$ | | | | | | | | | | | | A - HCL B - NaOH | M - Hexane N - None | |
| State, Zip: | Standard TAT | | | | | | | | | | | | | | | | | C - Zn Acetate D - Nitric Acid E - NaHSO4 | O - AsNaO2 P - Na2O4S Q - Na2SO3 | |
| NA, 98221 Phone: | PO#: | | | | | | | | | | | | | | | | | F - MeOH I G - Amchlor S H - Ascorbic Acid I - Ice | R - Na2S2O3 S - H2SO4 | |
| 360-293-0868 Email: | Bill to ALL4 | | | | | | | | | | | | | | | | | | T - TSP Dodecahy U - Acetone | /drate |
| lim.Schneider@HFSinclair.com Project Name: | Project #: | | | | Sample (Yes or No. | Yes or No) | | | | | | | | | | l sign | ners | J - DI Water K - EDTA | V - MCAA W - pH 4-5 | |
| PSR: Nonene Loading Rack Site Groundwater Monitoring | 58004434 SSOW#: | | | | | | | | | | | | | | | containe | L - EDA Other: | Z - other (specify) | | |
| - Washington | 00011#. | | | _ | | MSD (| | 8260 | | | | | | | | | of | Ollier. | | |
| Sample Identification | Sample Date | Sample Time | Sample Type (C=comp, G=grab) | Matrix (W=water, S=s O=waste/oi BT=Tissue, A= | Field Filtered | Perform MS/ | NWTPH-Gx | BTEX - EPA 82 | NWTPH-Dx | | - | | | | | | Total Number | Special In | structions/Note | e: |
| | $\geq \leq$ | >< | Preserva | tion Code | X | M | | | | | | | | | | | \bowtie | | | |
| V-129 | 5/13/24 | 11:35 | G | W | \perp | | X | X | X | | | | | | | | 8 | | | |
| rip Blanks Fi | | | Filled at Lab W | | | Ш | Х | X | \perp | | | | | | | | | Please provide results to both HF Sinclair PSR and ALL4 | | |
| | | | | | | | | | | | | | | _ | _ | | | HF SINCIA | Ir PSR and ALL4 | |
| | | | | | _ | | | | | | | | | | | | | | * | |
| | | | | | _ | Ш | | | | | | | | _ | | | | | | |
| | | | | -Propriesson and an annual reservoir | _ | Ш | | | | | | | | | | | | | | |
| | | | | | \perp | Ш | | Ш | | | | | \perp | _ | | | | | | |
| | *************************************** | | | | _ | | | | _ | _ | | $\perp \downarrow$ | | _ | | | | | | _ |
| | | | | | _ | | _ | | | _ | | 1 | | _ | | | | | | _ |
| | | | | | _ | Ш | | _ | | _ | | \sqcup | _ | _ | _ | 580-13 | 9993 | 3 Chain of Cust | ody | |
| Described the soul blood of the soul | | | | | \bot | | | | | | | لـــا | | | بــــــــــــــــــــــــــــــــــــــ | | | | | |
| Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poist | on B Unkn | own 🗆 F | Radiological | I | | San | | | r osai To C | | e may | be as | sess spos | ed if s al By L | a mpie .ab | | | ed longer than 1 ive For | month) Months | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | | Spe | cial I | nstru | ction | s/QC | Requi | remen | s: | | | | | | | |
| mpty Kit Relinquished by: | | | Date: | | | me: | | | | | | | Method of Shipment: | | | | | | | |
| elinquished by: Gigi Hewitt Ghewitt | | | Company Al14 | | Received by: | | | | Date/Time: 5/14/24 | | | 4 | 0940 | Company | | | | | | |
| elinquished by: | Date/Time: Company | | | | Received by: | | | | | | Date/Time: | | | | | | Company | | | |
| elinquished by: Date/Time: | | | Company | | | Received by: | | | | | Date/Time: | | | | | Company | | | | |
| Custody Seals Intact: Custody Seal No.: Δ Yes Δ No | | | | | | Cooler Temperature(s) °C and Other Remarks: IR +30.8/0.3 SB/wet/bub/FS() | | | | | | | | | | | | | | |