

March 27, 2024

New Mexico Oil Conservation Division New Mexico Energy, Minerals, and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Remediation Work Plan Sammons #2 San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident No: nAPP2336429577

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Work Plan* (Work Plan) for a release at the Sammons #2 natural gas production well (Site). The Site is located on private land in Unit G, Section 32, Township 30 North, Range 12 West, San Juan County, New Mexico (Figure 1). This proposed Work Plan includes a summary of delineation activities performed at the Site and the proposed remediation of impacted soil originating from the release of condensate.

SITE BACKGROUND

On December 29, 2023, during Audio, Visual, or Olfactory (AVO) inspections, a lease operator from Hilcorp identified an actively leaking condensate release caused by a cracked hammer union on the oil fill line. The fill line was plumbed into the bottom of the tank with no isolation valve to stop the leak. Upon discovery of the leak, a water truck was immediately dispatched to the Site. The water truck extracted condensate pooled in the containment while a new, 2-inch valve was installed to address the problem. After the installation of the new valve, the condensate was returned to the tank without generating a hauling ticket to document the recovered amount. Initially, the release volume was estimated to be 31 barrels (bbls), but due to an accounting error, the actual volume was revised to 6 bbls. Since no hauling ticket was generated, the exact amount of condensate recovered remains unknown and is assumed to be 0 bbls. Although the condensate was contained within the secondary lined berm, holes were observed in the liner and Hilcorp requested Ensolum conduct pothole delineation in the area surrounding the containment. Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) on a *Release Notification Form C-141* on 12/30/2023, 2023. The NMOCD has assigned the Site Incident Number nAPP2336429577.

SITE CHARACTERIZATION

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC). This information is further discussed below.

Hilcorp Energy Company Remediation Work Plan Sammons #2

GEOLOGY AND HYDROGEOLOGY

The Site is located in Quaternary age alluvial deposits associated with the Animas River drainage. The alluvial sediment is likely underlain by the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the alluvial deposits vary greatly across the basin in both hydrogeologic properties and water quality. Wells installed in the alluvium are used for livestock, irrigation, and domestic purposes where there is an adequate quantity and high enough quality water available. The Nacimiento Formation is characterized by interbedded black carbonaceous mudstones and white, coarse-grained sandstones, which range in thickness from 418 feet to 2,232 feet. The hydrogeologic properties of the Nacimiento Formation vary dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, National Wetland Inventory (NWI), National Hydrography Dataset (NHD) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial photographs, and Site-specific observations.

The nearest significant watercourse to the Site is a freshwater pond approximately 165 feet northwest of the wellhead. The Site is located 330 feet from the Animas River and is within a 100-year flood. The Site is also located 60 feet from the nearest wetland. The nearest data point for depth to groundwater to the Site is a domestic water well (NMOSE permit SJ-03206), located approximately 435 feet north of the Site. This well indicates that the shallowest groundwater is approximately 30 feet below ground surface (bgs) in this area (Appendix A); however, during advancement of hand auger boreholes during the Site investigation activities (further described below), groundwater was encountered at a depth of approximately 5 feet bgs.

The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake. The Site is not overlying a subsurface mine or located within an area underlain by unstable geology (area not designated as high potential karst by the Bureau of Land Management). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

SITE CLOSURE CRITERIA

Based on the information presented above and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 NMAC), the following Closure Criteria for constituents of concern (COCs) should be applied to the Site:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION AND SOIL SAMPLING ACTIVITIES

Ensolum personnel conducted initial delineation potholing activities with a backhoe on January 26, 2024. Sampling location PH01 was advanced within the north side of secondary containment berm. Sampling locations PH02 through PH05 were advanced in all cardinal directions surrounding the berm (Figure 2). During delineation activities, Ensolum personnel



Hilcorp Energy Company Remediation Work Plan Sammons #2

logged soil lithology and field screened for the presence of volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). Soil descriptions were noted in the field book. Two soil samples were collected from each pothole in order to delineate the lateral and vertical impacts at the Site. One sample was collected from the depth interval indicating the greatest potential TPH concentration based on PID field screening, and a second soil sample collected at the terminus of each pothole. Samples were submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of TPH following United States Environmental Protection Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0. Analytical results indicated concentrations of TPH in soil exceeded the applicable NMOCD Closure Criteria at depths of 4 to 5 feet bgs in sampling locations PH01 and PH04.

Based on the initial laboratory analytical results, Ensolum conducted additional hand auger delineation activities on February 21, 2024. Three hand auger delineation boreholes (HA01 through HA03) were advanced at the Site. A hand auger was selected due to soft unconsolidated soil, shallow depth to water, heavy vegetation east of the pad, and a drainage ditch that would prevent the use of a backhoe. During delineation activities, Ensolum personnel logged lithology and field screened soil in the same manner described above. Two soil samples were collected from each boring directly into laboratory-provided jars and immediately placed on ice. Samples were submitted to Eurofins for analysis of BTEX, TPH, and chloride by the same methods described above. Photographs taken during delineation activities are also provided in Appendix B. Hand auger borehole locations are presented on Figure 2.

BTEX and TPH concentrations were either not detected above laboratory reporting limits or were not detected above the applicable Closure Criteria in any of hand auger boreholes. At borehole HA01, chloride was detected in soil at a concentration exceeding the NMOCD Closure Criteria at a depth of 2 feet bgs. Chloride was not detected above Closure Criteria in any other samples collected during Site delineation efforts. Analytical results are summarized in Table 1 and presented on Figure 2. Complete laboratory reports are attached as Appendix C.

CONCLUSIONS AND REMEDIATION WORK PLAN

Based on soil sampling results described above, it is estimated impacted soil is present at the Site between the ground surface to a depth of approximately 4 to 5 feet bgs. Analytical results also indicate TPH impacted soil is likely limited to areas within the immediate vicinity of the secondary containment berm with an approximate areal extent of 850 square feet. An anomalous chloride detection of 650 mg/kg was observed at HA01, which is located 20 feet from the north corner of the secondary containment berm and along a fence at the edge of the well pad. Given the Site's proximity to the Animas River and the absence of petroleum hydrocarbons, the elevated chloride in HA01 is likely attributed to natural factors such as alkali soil resulting from run off or historical flooding and evaporation events, and not the December 2023 condensate release.

Hilcorp proposes to excavate TPH impacted soil at the Site to achieve NMOCD Closure Criteria. Additionally, Hilcorp will excavate shallow soil in the vicinity of HA01 to remove elevated chloride concentrations detected in this area. Based on the lateral and vertical extent of impacts, approximately 175 cubic yards of impacted soil are present at the Site to a depth of approximately 5 feet bgs. Soil will be excavated and transported off-Site for disposal at the Envirotech Landfarm located in San Juan County, New Mexico. Following removal of the impacted soil, 5-point composite soil samples will be collected at least every 200 square feet from the floor and sidewalls of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Based on previous analytical results and no prior Closure Criteria exceedances of BTEX, Hilcorp is requesting soil samples only be analyzed for TPH following EPA Method 300.0 during confirmation sampling.



Hilcorp will complete the excavation and soil sampling activities within 90 days of the date of approval of this Work Plan by the NMOCD. A *Closure Request* will be submitted within 30 days of receipt of final laboratory analytical results.

REFERENCES

Stone, W., Lyford, F., Frenzel, P., Mizell, N., & Padgett, E. (1983). Hydrogeology and Water Resources of San Juan Basin, New Mexico. New Mexico Bureau of Mines & Mineral Resources.

We appreciate the opportunity to provide this work plan to the NMOCD. If you should have any questions or comments regarding this document, please contact the undersigned.

Sincerely, **Ensolum, LLC**

Wer Winhut

Wesley Weichert, PG Project Geologist (816) 266-8732 wweichert@ensolum.com

Daniel R. Moir, PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Attachments:

- Figure 1: Site Receptor Map
- Figure 2: Delineation Soil Sample Results
- Table 1:
 Delineation Soil Sample Analytical Results
- Appendix A: NMOSE Point of Diversion Summary
- Appendix B: Photographic Log
- Appendix C: Laboratory Analytical Reports

Page 4



FIGURES

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TABLES

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ENSOLUM

	TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Sammons #2 Hilcorp Energy Company San Juan County, New Mexico											
Sample Identification	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure	Criteria for Soils Release	Impacted by a	10	NE	NE	NE	50	NE	NE	NE	100	600
PH01@4	1/26/2024	4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	18	<46	18	<60
PH01@5	1/26/2024	5	<0.025	<0.050	<0.050	<0.099	<0.099	16	310	110	436	<60
PH02@2	1/26/2024	2	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.1	<46	<46	73
PH02@3	1/26/2024	3	<0.023	<0.046	<0.046	<0.091	<0.091	<4.6	<9.4	<47	<47	100
PH03@3	1/26/2024	3	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	16	<47	16	<61
PH03@4	1/26/2024	4	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	9.8	<49	9.8	<60
PH04@2	1/26/2024	2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.3	<46	<46	<60
PH04@4	1/26/2024	4	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	130	220	350	<59
PH05@3	1/26/2024	3	<0.024	<0.048	<0.048	<0.097	< 0.097	<4.8	<9.2	<46	<46	66
PH05@5	1/26/2024	5	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.2	<46	<46	<60
HA01@2	2/21/2024	2	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.1	<45	<45	650
HA01@3	2/21/2024	3	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.9	<45	<45	300
HA02@3	2/21/2024	3	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.3	<46	<46	100
HA02@4	2/21/2024	4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<47	140
HA03@1	2/21/2024	1	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.9	<44	<44	<60
HA03@3	2/21/2024	3	<0.025	< 0.050	<0.050	<0.099	< 0.099	<5.0	<9.7	<49	<49	<60

Notes:

bgs: below ground surface BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes mg/kg: milligrams per kilogram NE: Not Established NMOCD: New Mexico Oil Conservation Division GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release



APPENDIX A

Reggined by gGD: 3/27/2024,12:14:327.PM.us/ReportDispatcher?type=WRHTML&name=WaterRightSummaryHTML.jrxml&basin=SJ&nbr=0.3268&suffixef 52

		Ne	w Mex	ico Offic	e of th	he Sta	te Er	ngineer	4
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	Total Diversion	n: 3		Cause/Case	: -				
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The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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WATER RIGHT SUMMARY



APPENDIX B





APPENDIX C



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 13, 2024 Mitch Killough HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: Sammons 2

OrderNo.: 2401B08

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 10 sample(s) on 1/27/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Sammons 2

2401B08-001

Project:

Lab ID:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024 Client Sample ID: PH05@5 Collection Date: 1/26/2024 10:35:00 AM

Received Date: 1/27/2024 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	ORGANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/2/2024 12:03:40 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/2/2024 12:03:40 PM
Surr: DNOP	94.7	61.2-134	%Rec	1	2/2/2024 12:03:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/2/2024 7:32:41 PM
Surr: BFB	101	15-244	%Rec	1	2/2/2024 7:32:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	2/2/2024 7:32:41 PM
Toluene	ND	0.046	mg/Kg	1	2/2/2024 7:32:41 PM
Ethylbenzene	ND	0.046	mg/Kg	1	2/2/2024 7:32:41 PM
Xylenes, Total	ND	0.093	mg/Kg	1	2/2/2024 7:32:41 PM
Surr: 4-Bromofluorobenzene	86.7	39.1-146	%Rec	1	2/2/2024 7:32:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	2/2/2024 12:42:37 PM

Matrix:

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL

Reporting Limit

Page 1 of 14

Sammons 2

2401B08-002

Project:

Lab ID:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024 Client Sample ID: PH05@3 Collection Date: 1/26/2024 10:30:00 AM

Received Date: 1/27/2024 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: JKU				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/2/2024 12:15:43 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/2/2024 12:15:43 PM
Surr: DNOP	97.2	61.2-134	%Rec	1	2/2/2024 12:15:43 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/2/2024 8:43:21 PM
Surr: BFB	103	15-244	%Rec	1	2/2/2024 8:43:21 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/2/2024 8:43:21 PM
Toluene	ND	0.048	mg/Kg	1	2/2/2024 8:43:21 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/2/2024 8:43:21 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/2/2024 8:43:21 PM
Surr: 4-Bromofluorobenzene	89.4	39.1-146	%Rec	1	2/2/2024 8:43:21 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	66	61	mg/Kg	20	2/2/2024 12:57:46 PM

Matrix:

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

Page 2 of 14

Sammons 2

2401B08-003

Project:

Lab ID:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024 Client Sample ID: PH04@4

Collection Date: 1/26/2024 10:00:00 AM Received Date: 1/27/2024 9:15:00 AM Result **RI** Qual Units DF Date Analyzed

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JKU
Diesel Range Organics (DRO)	130	9.6	mg/Kg	1	2/2/2024 4:06:29 PM
Motor Oil Range Organics (MRO)	220	48	mg/Kg	1	2/2/2024 4:06:29 PM
Surr: DNOP	106	61.2-134	%Rec	1	2/2/2024 4:06:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/2/2024 9:07:00 PM
Surr: BFB	99.3	15-244	%Rec	1	2/2/2024 9:07:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/2/2024 9:07:00 PM
Toluene	ND	0.050	mg/Kg	1	2/2/2024 9:07:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/2/2024 9:07:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/2/2024 9:07:00 PM
Surr: 4-Bromofluorobenzene	85.3	39.1-146	%Rec	1	2/2/2024 9:07:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	59	mg/Kg	20	2/2/2024 1:12:55 PM

Matrix:

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix
- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 3 of 14

Sammons 2

Project:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Lab Order **2401B08**

Date Reported: 2/13/2024

Client Sample ID: PH04@2
Collection Date: 1/26/2024 9:55:00 AM
Received Date: 1/27/2024 9:15:00 AM

Lab ID: 2401B08-004	Matrix:	Rec	Received Date: 1/27/2024 9:15:00 AM				
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: JKU		
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/2/2024 12:39:55 PM		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/2/2024 12:39:55 PM		
Surr: DNOP	90.5	61.2-134	%Rec	1	2/2/2024 12:39:55 PM		
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: JJP		
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/2/2024 9:30:31 PM		
Surr: BFB	98.6	15-244	%Rec	1	2/2/2024 9:30:31 PM		
EPA METHOD 8021B: VOLATILES					Analyst: JJP		
Benzene	ND	0.025	mg/Kg	1	2/2/2024 9:30:31 PM		
Toluene	ND	0.049	mg/Kg	1	2/2/2024 9:30:31 PM		
Ethylbenzene	ND	0.049	mg/Kg	1	2/2/2024 9:30:31 PM		
Xylenes, Total	ND	0.098	mg/Kg	1	2/2/2024 9:30:31 PM		
Surr: 4-Bromofluorobenzene	85.8	39.1-146	%Rec	1	2/2/2024 9:30:31 PM		
EPA METHOD 300.0: ANIONS					Analyst: JTT		
Chloride	ND	60	mg/Kg	20	2/2/2024 1:58:24 PM		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
 Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range RL Reporting Limit
- RL Rep

Page 4 of 14

Sammons 2

Project:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024

Client Sample ID: PH03@4 Collection Date: 1/26/2024 9:35:00 AM Received Date: 1/27/2024 9:15:00 AM

Lab ID: 2401B08-005	Matrix:	Received Date: 1/27/2024 9:15:00 AM				
Analyses	Result	RL Qua	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: JKU	
Diesel Range Organics (DRO)	9.8	9.8	mg/Kg	1	2/2/2024 12:52:09 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/2/2024 12:52:09 PM	
Surr: DNOP	90.0	61.2-134	%Rec	1	2/2/2024 12:52:09 PM	
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/2/2024 9:54:01 PM	
Surr: BFB	103	15-244	%Rec	1	2/2/2024 9:54:01 PM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.024	mg/Kg	1	2/2/2024 9:54:01 PM	
Toluene	ND	0.048	mg/Kg	1	2/2/2024 9:54:01 PM	
Ethylbenzene	ND	0.048	mg/Kg	1	2/2/2024 9:54:01 PM	
Xylenes, Total	ND	0.096	mg/Kg	1	2/2/2024 9:54:01 PM	
Surr: 4-Bromofluorobenzene	87.0	39.1-146	%Rec	1	2/2/2024 9:54:01 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	60	mg/Kg	20	2/2/2024 2:13:33 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level. Sample Diluted Due to Matrix
- D н
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

Page 5 of 14

Sammons 2

Project:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024

Client Sample ID: PH03@3 Collection Date: 1/26/2024 9:30:00 AM Received Date: 1/27/2024 9:15:00 AM

Lab ID: 2401B08-006	Matrix:	Received Date: 1/27/2024 9:15:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: JKU	
Diesel Range Organics (DRO)	16	9.5	mg/Kg	1	2/2/2024 1:16:25 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/2/2024 1:16:25 PM	
Surr: DNOP	93.0	61.2-134	%Rec	1	2/2/2024 1:16:25 PM	
EPA METHOD 8015D: GASOLINE RANGI	E				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/2/2024 10:17:28 PM	
Surr: BFB	100	15-244	%Rec	1	2/2/2024 10:17:28 PM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.024	mg/Kg	1	2/2/2024 10:17:28 PM	
Toluene	ND	0.048	mg/Kg	1	2/2/2024 10:17:28 PM	
Ethylbenzene	ND	0.048	mg/Kg	1	2/2/2024 10:17:28 PM	
Xylenes, Total	ND	0.097	mg/Kg	1	2/2/2024 10:17:28 PM	
Surr: 4-Bromofluorobenzene	85.6	39.1-146	%Rec	1	2/2/2024 10:17:28 PM	
EPA METHOD 300.0: ANIONS					Analyst: JTT	
Chloride	ND	61	mg/Kg	20	2/2/2024 2:28:42 PM	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

- н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 6 of 14

Sammons 2

2401B08-007

Project:

Lab ID:

Analyses

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024 Client Sample ID: PH02@3 Collection Date: 1/26/2024 9:05:00 AM

Matrix: Received Date: 1/27/2024 9:15:00 AM Result **RL** Qual Units DF **Date Analyzed**

EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/2/2024 1:28:45 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/2/2024 1:28:45 PM
Surr: DNOP	90.5	61.2-134	%Rec	1	2/2/2024 1:28:45 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/2/2024 10:40:53 PM
Surr: BFB	98.8	15-244	%Rec	1	2/2/2024 10:40:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	2/2/2024 10:40:53 PM
Toluene	ND	0.046	mg/Kg	1	2/2/2024 10:40:53 PM
Ethylbenzene	ND	0.046	mg/Kg	1	2/2/2024 10:40:53 PM
Xylenes, Total	ND	0.091	mg/Kg	1	2/2/2024 10:40:53 PM
Surr: 4-Bromofluorobenzene	85.9	39.1-146	%Rec	1	2/2/2024 10:40:53 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	100	59	mg/Kg	20	2/2/2024 2:43:51 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

Page 7 of 14

Sammons 2

2401B08-008

Project:

Lab ID:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024 Client Sample ID: PH02@2 Collection Date: 1/26/2024 9:00:00 AM

Received Date: 1/27/2024 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: JKU				
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/2/2024 1:40:54 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/2/2024 1:40:54 PM
Surr: DNOP	90.7	61.2-134	%Rec	1	2/2/2024 1:40:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/2/2024 11:04:14 PM
Surr: BFB	98.8	15-244	%Rec	1	2/2/2024 11:04:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/2/2024 11:04:14 PM
Toluene	ND	0.048	mg/Kg	1	2/2/2024 11:04:14 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/2/2024 11:04:14 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/2/2024 11:04:14 PM
Surr: 4-Bromofluorobenzene	86.0	39.1-146	%Rec	1	2/2/2024 11:04:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	73	60	mg/Kg	20	2/2/2024 3:00:11 PM

Matrix:

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

ND PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 8 of 14

Sammons 2

Project:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024

Client Sample ID: PH01@5 Collection Date: 1/26/2024 8:40:00 AM Received Date: 1/27/2024 9.15.00 AM

Lab ID: 2401B08-009	Matrix:	Rece	ived Date:	1/27/2	024 9:15:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: JKU
Diesel Range Organics (DRO)	310	9.6	mg/Kg	1	2/2/2024 1:53:02 PM
Motor Oil Range Organics (MRO)	110	48	mg/Kg	1	2/2/2024 1:53:02 PM
Surr: DNOP	91.1	61.2-134	%Rec	1	2/2/2024 1:53:02 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: JJP
Gasoline Range Organics (GRO)	16	5.0	mg/Kg	1	2/2/2024 11:27:38 PM
Surr: BFB	123	15-244	%Rec	1	2/2/2024 11:27:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/2/2024 11:27:38 PM
Toluene	ND	0.050	mg/Kg	1	2/2/2024 11:27:38 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/2/2024 11:27:38 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/2/2024 11:27:38 PM
Surr: 4-Bromofluorobenzene	87.1	39.1-146	%Rec	1	2/2/2024 11:27:38 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	2/2/2024 3:15:16 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit Page 9 of 14

Sammons 2

2401B08-010

Project:

Lab ID:

Analytical Report Lab Order 2401B08

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/13/2024 Client Sample ID: PH01@4 Collection Date: 1/26/2024 8:35:00 AM

Received Date: 1/27/2024 9:15:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JKU
Diesel Range Organics (DRO)	18	9.2	mg/Kg	1	2/2/2024 2:17:33 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/2/2024 2:17:33 PM
Surr: DNOP	92.8	61.2-134	%Rec	1	2/2/2024 2:17:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/3/2024 12:14:12 AM
Surr: BFB	95.6	15-244	%Rec	1	2/3/2024 12:14:12 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/3/2024 12:14:12 AM
Toluene	ND	0.049	mg/Kg	1	2/3/2024 12:14:12 AM
Ethylbenzene	ND	0.049	mg/Kg	1	2/3/2024 12:14:12 AM
Xylenes, Total	ND	0.097	mg/Kg	1	2/3/2024 12:14:12 AM
Surr: 4-Bromofluorobenzene	82.7	39.1-146	%Rec	1	2/3/2024 12:14:12 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	2/2/2024 3:30:25 PM

Matrix:

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level. D Sample Diluted Due to Matrix

н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Above Quantitation Range/Estimated Value Е
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 10 of 14

Client: Project:		CORP ENERGY									
Sample ID:	MB-80226	SampTy	pe: ME	BLK	Tes	tCode: EF	A Method	300.0: Anions	;		
Client ID:	PBS	Batch ID: 80226				RunNo: 1(2851				
Prep Date:	2/2/2024	Analysis Da	te: 2/ 2	2/2024	5	SeqNo: 38	800318	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID:	LCS-80226	SampTy	pe: LC	S	Tes	tCode: EF	A Method	300.0: Anions	5		
Client ID:	LCSS	Batch	ID: 802	226	F	RunNo: 10	2851				
Prep Date:	2/2/2024	Analysis Da	te: 2/ 2	2/2024	S	SeqNo: 38	800319	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.9	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

2401B08

13-Feb-24

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORF Sammons		ľ								
Sample ID:	MB-80224	SampT	pe: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	PBS	Batch	ID: 80	224	F	RunNo: 10	02843				
Prep Date:	2/1/2024	Analysis Da	ate: 2/	2/2024	S	SeqNo: 3	800103	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		12		10.00		123	61.2	134			
Sample ID:	LCS-80224	SampT	pe: LC	S	Tes	tCode: El	PA Method	8015M/D: Dies	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 80	224	F	RunNo: 10	02843				
Prep Date:	2/1/2024	Analysis Da	ate: 2/	2/2024	S	SeqNo: 3	800104	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		6.4		5.000		127	69	147			
		SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics									
Sample ID:	MB-80223	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Dies	sel Range	Organics	
	MB-80223 PBS	• •	ype: ME ID: 80 2			tCode: Ef RunNo: 1 (8015M/D: Dies	sel Range	Organics	
•		• •	ID: 80 2	223	F		02856	8015M/D: Dies Units: mg/K	-	Organics	
Client ID:	PBS	Batch	ID: 80 2	223 2/2024	F	RunNo: 11 SeqNo: 38	02856		-	Organics RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range O	PBS 2/1/2024 Organics (DRO)	Batch Analysis Da Result ND	ID: 80 ; ate: 2/ PQL 10	223 2/2024	F	RunNo: 11 SeqNo: 38	02856 300484	Units: mg/K	g	-	Qual
Client ID: Prep Date: Analyte Diesel Range O Motor Oil Range	PBS 2/1/2024	Batch Analysis Da Result ND ND	ID: 80 : ate: 2/ PQL	223 2/2024 SPK value	F	RunNo: 11 SeqNo: 31 %REC	02856 800484 LowLimit	Units: mg/K HighLimit	g	-	Qual
Client ID: Prep Date: Analyte Diesel Range O	PBS 2/1/2024 Organics (DRO)	Batch Analysis Da Result ND	ID: 80 ; ate: 2/ PQL 10	223 2/2024	F	RunNo: 11 SeqNo: 38	02856 300484	Units: mg/K	g	-	Qual
Client ID: Prep Date: Analyte Diesel Range O Motor Oil Range	PBS 2/1/2024 Drganics (DRO) e Organics (MRO)	Batch Analysis Da Result ND ND	ID: 80 : ate: 2/ PQL 10 50	223 2/2024 SPK value 10.00	F SPK Ref Val	RunNo: 11 SeqNo: 3 %REC 107	02856 800484 LowLimit 61.2	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range O Motor Oil Range Surr: DNOP Sample ID:	PBS 2/1/2024 Drganics (DRO) e Organics (MRO)	Batch Analysis Da Result ND ND 11 SampTy	ID: 80 : ate: 2/ PQL 10 50	223 2/2024 SPK value 10.00	F SPK Ref Val Tes	RunNo: 11 SeqNo: 3 %REC 107	22856 300484 LowLimit 61.2 PA Method	Units: mg/K HighLimit 134	g %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range O Motor Oil Range Surr: DNOP Sample ID:	PBS 2/1/2024 Drganics (DRO) e Organics (MRO) LCS-80223	Batch Analysis Da Result ND ND 11 SampTy	ri ID: 80 ; ate: 2 / PQL 10 50 ype: LC ID: 80 ;	223 2/2024 SPK value 10.00 S 223	F SPK Ref Val Tes F	RunNo: 11 SeqNo: 31 %REC 107 tCode: EF	02856 300484 LowLimit 61.2 PA Method 02856	Units: mg/K HighLimit 134	g %RPD sel Range	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range O Motor Oil Range Surr: DNOP Sample ID: Client ID:	PBS 2/1/2024 Drganics (DRO) e Organics (MRO) LCS-80223 LCSS	Batch Analysis Da Result ND ND 11 SampTy Batch	ri ID: 80 ; ate: 2 / PQL 10 50 ype: LC ID: 80 ;	223 2/2024 SPK value 10.00 S 223	F SPK Ref Val Tes F	RunNo: 11 SeqNo: 31 %REC 107 tCode: EF RunNo: 11	02856 300484 LowLimit 61.2 PA Method 02856	Units: mg/Kg HighLimit 134 8015M/D: Dies	g %RPD sel Range	RPDLimit	Qual
Client ID: Prep Date: Analyte Diesel Range O Motor Oil Range Surr: DNOP Sample ID: Client ID: Prep Date:	PBS 2/1/2024 Prganics (DRO) e Organics (MRO) LCS-80223 LCSS 2/1/2024	Batch Analysis Da Result ND ND 11 SampTy Batch Analysis Da	<pre>// ID: 80: ate: 2/ PQL 10 50 //pe: LC ID: 80: ate: 2/</pre>	223 2/2024 SPK value 10.00 S 223 2/2024	F SPK Ref Val Tes F	RunNo: 11 SeqNo: 34 %REC 107 tCode: Ef RunNo: 11 SeqNo: 34	02856 300484 LowLimit 61.2 PA Method 02856 300485	Units: mg/Kg HighLimit 134 8015M/D: Dies Units: mg/Kg	g %RPD sel Range	RPDLimit Organics	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

WO#: 2401B08 13-Feb-24

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: HILCOF Project: Sammon	RP ENERGY is 2	Y								
Sample ID: Ics-80192	SampT	SampType: LCS TestCode: EPA Method 8				8015D: Gasol	ine Range			
Client ID: LCSS	Batch	ID: 801	192	RunNo: 102837						
Prep Date: 1/31/2024	Analysis D	ate: 2/ 2	2/2024	S	SeqNo: 37	799767	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	115	70	130			
Surr: BFB	2200		1000		222	15	244			
Sample ID: mb-80192	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	ine Range		
Client ID: PBS	Batch	ID: 801	192	F	RunNo: 1(02837				
Prep Date: 1/31/2024	Analysis D	ate: 2/ 2	2/2024	5	SeqNo: 37	799768	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	15	244			

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 14

2401B08

13-Feb-24

WO#:

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORF Sammons		Y										
Sample ID:	LCS-80192	Samp	Гуре: LC	s	Tes	tCode: EF	A Method	8021B: Volati	les				
Client ID:	LCSS	Batc	h ID: 80 1	192	F	RunNo: 10	2837						
Prep Date:	1/31/2024	Analysis [Date: 2/2	2/2024	5	SeqNo: 37	99772	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		0.88	0.025	1.000	0	88.0	70	130					
Toluene		0.89	0.050	1.000	0	88.8	70	130					
Ethylbenzene		0.89	0.050	1.000	0	88.8	70	130					
Xylenes, Total		2.7	0.10	3.000	0	89.2	70	130					
Surr: 4-Brom	ofluorobenzene	0.93		1.000		92.6	39.1	146					
Sample ID:	mb-80192	Samp	SampType: MBLK TestCode: EP				A Method	8021B: Volati	les				
Client ID:	PBS	Batc	h ID: 80 1	192	F	RunNo: 10	2837						
Prep Date:	1/31/2024	Analysis [Date: 2/2	2/2024	SeqNo: 3799773 Units: mg/Kg								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene		ND	0.025										
Toluene		ND	0.050										
Ethylbenzene		ND	0.050										
Xylenes, Total		ND	0.10										
Surr: 4-Brom	ofluorobenzene	0.88		1.000		88.0	39.1	146					
Sample ID:	2401b08-001ams	Samp ⁻	Гуре: МS	;	Tes	tCode: EF	A Method	8021B: Volati	les				
Client ID:	PH05@5	Batc	h ID: 80 1	192	F	RunNo: 10	2837						
Prep Date:	1/31/2024	Analysis [
Analyte				2/2024	S	SeqNo: 38	800644	Units: mg/K	g				
		Result	PQL		SPK Ref Val	SeqNo: 38 %REC	LowLimit	Units: mg/K HighLimit	g %RPD	RPDLimit	Qual		
Benzene		0.74	PQL 0.023	SPK value 0.9259	SPK Ref Val 0	%REC 79.7	LowLimit 70	HighLimit 130	-	RPDLimit	Qual		
Benzene Toluene		0.74 0.77	PQL 0.023 0.046	SPK value 0.9259 0.9259	SPK Ref Val	%REC 79.7 83.0	LowLimit 70 70	HighLimit 130 130	-	RPDLimit	Qual		
Benzene Toluene Ethylbenzene		0.74 0.77 0.80	PQL 0.023 0.046 0.046	SPK value 0.9259 0.9259 0.9259	SPK Ref Val 0 0 0	%REC 79.7 83.0 86.2	LowLimit 70 70 70	HighLimit 130 130 130	-	RPDLimit	Qual		
Benzene Toluene Ethylbenzene Xylenes, Total		0.74 0.77 0.80 2.4	PQL 0.023 0.046	SPK value 0.9259 0.9259 0.9259 2.778	SPK Ref Val 0 0	%REC 79.7 83.0 86.2 85.8	LowLimit 70 70 70 70 70	HighLimit 130 130 130 130	-	RPDLimit	Qual		
Benzene Toluene Ethylbenzene Xylenes, Total	ofluorobenzene	0.74 0.77 0.80	PQL 0.023 0.046 0.046	SPK value 0.9259 0.9259 0.9259	SPK Ref Val 0 0 0	%REC 79.7 83.0 86.2	LowLimit 70 70 70	HighLimit 130 130 130	-	RPDLimit	Qual		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	nofluorobenzene 2401b08-001amsd	0.74 0.77 0.80 2.4 0.81	PQL 0.023 0.046 0.046	SPK value 0.9259 0.9259 0.9259 2.778 0.9259	SPK Ref Val 0 0 0	%REC 79.7 83.0 86.2 85.8 88.0	LowLimit 70 70 70 70 39.1	HighLimit 130 130 130 130	%RPD	RPDLimit	Qual		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom		0.74 0.77 0.80 2.4 0.81	PQL 0.023 0.046 0.046 0.093	SPK value 0.9259 0.9259 0.9259 2.778 0.9259	SPK Ref Val 0 0 0 0 Tes	%REC 79.7 83.0 86.2 85.8 88.0	LowLimit 70 70 70 70 39.1 *A Method	HighLimit 130 130 130 130 130 146	%RPD	RPDLimit	Qual		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID:	2401b08-001amsd	0.74 0.77 0.80 2.4 0.81	PQL 0.023 0.046 0.046 0.093 Type: MS h ID: 80 1	SPK value 0.9259 0.9259 2.778 0.9259 5D	SPK Ref Val 0 0 0 0 Tes F	%REC 79.7 83.0 86.2 85.8 88.0 tCode: EF	LowLimit 70 70 70 39.1 24 Method 22837	HighLimit 130 130 130 130 130 146	%RPD	RPDLimit	Qual		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte	2401b08-001amsd PH05@5	0.74 0.77 0.80 2.4 0.81 Samp Batc Analysis I Result	PQL 0.023 0.046 0.046 0.093 Type: MS h ID: 80 1 Date: 2 /2 PQL	SPK value 0.9259 0.9259 2.778 0.9259 5D 192 2/2024 SPK value	SPK Ref Val 0 0 0 Tes F SPK Ref Val	%REC 79.7 83.0 86.2 85.8 88.0 tCode: EF RunNo: 10 SeqNo: 38 %REC	LowLimit 70 70 70 39.1 2837 200645 LowLimit	HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit	%RPD les g %RPD	RPDLimit	Qual		
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene	2401b08-001amsd PH05@5	0.74 0.77 0.80 2.4 0.81 Samp Batc Analysis I Result 0.72	PQL 0.023 0.046 0.046 0.093 Type: MS h ID: 801 Date: 2/2 PQL 0.023	SPK value 0.9259 0.9259 2.778 0.9259 5D 192 2/2024 SPK value 0.9251	SPK Ref Val 0 0 0 Tes F SPK Ref Val 0	%REC 79.7 83.0 86.2 85.8 88.0 tCode: EF RunNo: 10 SeqNo: 38 %REC 77.4	LowLimit 70 70 70 39.1 24 Method 2837 300645 LowLimit 70	HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit 130	%RPD les g %RPD 3.03	RPDLimit 20			
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	2401b08-001amsd PH05@5	0.74 0.77 0.80 2.4 0.81 Samp Batc Analysis I Result 0.72 0.75	PQL 0.023 0.046 0.046 0.093 Type: MS h ID: 801 Date: 2/2 PQL 0.023 0.046	SPK value 0.9259 0.9259 2.778 0.9259 50 192 2/2024 SPK value 0.9251 0.9251	SPK Ref Val 0 0 0 Tes F SPK Ref Val	%REC 79.7 83.0 86.2 85.8 88.0 tCode: EF RunNo: 10 SeqNo: 38 %REC 77.4 81.6	LowLimit 70 70 70 39.1 2837 200645 LowLimit 70 70 70	HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit	%RPD les g %RPD 3.03 1.83	RPDLimit 20 20			
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	2401b08-001amsd PH05@5	0.74 0.77 0.80 2.4 0.81 Samp ⁻ Batc Analysis I Result 0.72 0.75 0.77	PQL 0.023 0.046 0.046 0.093 Type: MS h ID: 80 1 Date: 2/2 PQL 0.023 0.046 0.046	SPK value 0.9259 0.9259 2.778 0.9259 5D 192 2/2024 SPK value 0.9251 0.9251 0.9251	SPK Ref Val 0 0 0 Tes F SPK Ref Val 0 0 0 0 0	%REC 79.7 83.0 86.2 85.8 88.0 tCode: EF RunNo: 10 SeqNo: 38 %REC 77.4 81.6 83.7	LowLimit 70 70 70 39.1 24 Method 2837 200645 LowLimit 70 70 70 70 70	HighLimit 130 130 130 130 146 8021B: Volati 8021B: Volati Units: mg/K HighLimit 130 130 130 130	%RPD les g %RPD 3.03 1.83 3.04	RPDLimit 20 20 20			
Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	2401b08-001amsd PH05@5	0.74 0.77 0.80 2.4 0.81 Samp Batc Analysis I Result 0.72 0.75	PQL 0.023 0.046 0.046 0.093 Type: MS h ID: 801 Date: 2/2 PQL 0.023 0.046	SPK value 0.9259 0.9259 2.778 0.9259 50 192 2/2024 SPK value 0.9251 0.9251	SPK Ref Val 0 0 0 Tes F SPK Ref Val 0 0	%REC 79.7 83.0 86.2 85.8 88.0 tCode: EF RunNo: 10 SeqNo: 38 %REC 77.4 81.6	LowLimit 70 70 70 39.1 2837 200645 LowLimit 70 70 70	HighLimit 130 130 130 130 130 146 8021B: Volati 8021B: Volati Units: mg/K HighLimit 130 130 130	%RPD les g %RPD 3.03 1.83	RPDLimit 20 20			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- Analyte detected in the associated Method Blank В
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

Page 14 of 14

WO#: 2401B08 13-Feb-24

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Page 30 of 52

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Hilcorp Energy	Work Order Number	2401B08		RcptNo: 1
Received By: Tracy Casarrubias	1/27/2024 9:15:00 AM			
Completed By: Tracy Casarrubias	1/27/2024 11:20:19 AI	vi		
Reviewed By: (MC	1/29/24			
	1			
Chain of Custody				
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present
2. How was the sample delivered?		Courier		
Log In 3. Was an attempt made to cool the sample	s?	Yes 🔽	No 🗌	
4. Were all samples received at a temperatu	ire of >0° C to 6.0°C	Yes 🗸	No 🗌	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌	
6. Sufficient sample volume for indicated tes	st(s)?	Yes 🗹	No 🗌	
7. Are samples (except VOA and ONG) prop	perly preserved?	Yes 🗹	No 🗌	
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌
9. Received at least 1 vial with headspace <	1/4" for AQ VOA?	Yes	No 🗌	
10. Were any sample containers received bro		Yes	No 🗹	
		lone.		# of preserved bottles checked
11. Does paperwork match bottle labels?		Yes 1/27/21	No 🗹	for pH: (<2 or >12 unless noted)
(Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain	of Custody?	Yes 🗹	No 🗌	Adjusted?
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌	
14. Were all holding times able to be met?		Yes 🗹	No 🗌	Checked by: TMc 1/27/29
(If no, notify customer for authorization.)			/*	
Special Handling (if applicable)		~		L.
15. Was client notified of all discrepancies w	ith this order?	Yes 🔽	No 🗌	NA 130/04
Person Notified: Mitch K.	Date:			
By Whom: Tracy Case	imubias Via:	eMail Phor	ne 🗌 Fax	In Person
	scredoncy			
	ss is missing on COC- TMC			
16. Additional remarks: Left V.M. a	nd sent Email wai	ting on respi	ne -	The 1/30/24 er client - The 1/30/24
17. Cooler Information	NUTL MILLIUC	nunce mus	e p	a (Werth
Cooler No Temp °C Condition	1	Seal Date Sig	gned By	
1 4.6 Good	Yes Yogi	,]
	Moety Milz	S (_ (
	11/1/3	5124		

Received by OCD: 3/27/2024 12:14:27 PM

1.

	C	hain	-of-Ci	ustody Record	Turn-/	Around	Time:	51	Day				н	AI	LE	NN	/ті	20	N	ME	NTA	AL	
en la Maria	Client:	Hilu	rp E	Sillough		andard		Rush	an a state of the and a												TO		ť
		Mitc	n t	Sillough	1 5	ct Name		-					v	ww.ł	aller	viror	mer	tal.co	om				
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					Projec	ct #:	-					1. 505						-345					
	Phone #	#: 717	5-75	7-5247	1						SX.				-		Red	lues	t				
	email o	r Fax#:	Mhilla	1gh@hilwrp.zum	-	ct Mana	-			£	Ô				C S			ent)					
	QA/QC I	•		0	~	stua	r+	Hy	96	TMB's (8021)	DRO / MRO)	PCB's		8270SIMS	Ċd			Abse					
	X Stan	dard		Level 4 (Full Validation)						B's	ß			70S				ent/			1		
	Accredi			ompliance		ler: 6	reg	Pal	ese	•		Pesticides/8082	504.1)		Č		17	(Present/Absent)					
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		(туре)	T UT				(including C	F):47	-0.1=4.6 (°C)	MTBE /	5D(stici	٩ ۴	83			j i	Coliform					
											801		۳,	s by	0 0	Š	S S	<u> </u>					
	Date	Time	Matrix	Sample Name	Conta	iner and #	Preser Type	vative	HEAL No. 2401 808	BTEX	TPH:8015D(GRO /	8081	EDB (Method	PAHs by 8310	CUF Br NO.	8260 (VOA)	8270 (Semi-VOA)	Total					
1/21	1-27	1035	Soil	PHOS @ 5	1	02	Co	10	001	X	X				X								
	1210	1030	1	PHOS @ 3		1	.	ri taki Neti	002	X	$\left \right\rangle$			t	X					-		156	1. No.
	1000	1000		PHO4 @ 4					003	X	X				\rangle								
		955		PHOY @ 2					004	X	\times				X				10				
		935		PHO3 @ Y					200	\times	\times				X		1	1	-	-0.00			
		930		PH03 @ 3					006	\times	\times				X								
		905		PH02 @ 3					607	\times	X				7								
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. Released to Imaging: 5/2/2024 7:47:43 AM



Environment Testing

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 06, 2024 Mitch Killough Hilcorp Energy PO Box 61529 Houston, TX 77208-1529 TEL: (337) 276-7676 FAX

RE: Sammons 2

OrderNo.: 2402A47

Dear Mitch Killough:

Eurofins Environment Testing South Central, LLC received 6 sample(s) on 2/22/2024 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

Analytical Report
Lab Order 2402A47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/6/2024

CLIENT: Hilcorp Energy		Cl	ient Sample II	D: HA	A01@2	
Project: Sammons 2		(Collection Date	e: 2/2	21/2024 10:40:00 AM	
Lab ID: 2402A47-001	Matrix: SOIL					
Analyses	Result	RL	Qual Units	DF	Batch	
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	700	60	mg/Kg	20	2/28/2024 11:47:29 AM	80683
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JKU
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/27/2024 5:25:08 PM	80645
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2024 5:25:08 PM	80645
Surr: DNOP	94.4	61.2-134	%Rec	1	2/27/2024 5:25:08 PM	80645
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/24/2024 2:37:03 PM	80580
Surr: BFB	101	15-244	%Rec	1	2/24/2024 2:37:03 PM	80580
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.025	mg/Kg	1	2/24/2024 2:37:03 PM	80580
Toluene	ND	0.050	mg/Kg	1	2/24/2024 2:37:03 PM	80580
Ethylbenzene	ND	0.050	mg/Kg	1	2/24/2024 2:37:03 PM	80580
Xylenes, Total	ND	0.099	mg/Kg	1	2/24/2024 2:37:03 PM	80580
Surr: 4-Bromofluorobenzene	99.3	39.1-146	%Rec	1	2/24/2024 2:37:03 PM	80580

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit
- ND Not Detected at the Reportin PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 1 of 11

Analytical Report Lab Order 2402A47 Date Reported: 3/6/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Hilcorp Energy

Sammons 2

Project:

Client Sample ID: HA01@3 Collection Date: 2/21/2024 10:50:00 AM Provised Data: 2/22/2024 7:00:00 AM

Lab ID: 2402A47-002	Matrix: SOIL		Received Date: 2/22/2024 7:00:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	SNS				
Chloride	300	60	mg/Kg	20	2/28/2024 11:59:50 AM	80683				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JKU				
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/27/2024 6:01:34 PM	80645				
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2024 6:01:34 PM	80645				
Surr: DNOP	94.7	61.2-134	%Rec	1	2/27/2024 6:01:34 PM	80645				
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: JJP				
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/24/2024 3:48:34 PM	80580				
Surr: BFB	99.9	15-244	%Rec	1	2/24/2024 3:48:34 PM	80580				
EPA METHOD 8021B: VOLATILES					Analyst	: JJP				
Benzene	ND	0.025	mg/Kg	1	2/24/2024 3:48:34 PM	80580				
Toluene	ND	0.049	mg/Kg	1	2/24/2024 3:48:34 PM	80580				
Ethylbenzene	ND	0.049	mg/Kg	1	2/24/2024 3:48:34 PM	80580				
Xylenes, Total	ND	0.099	mg/Kg	1	2/24/2024 3:48:34 PM	80580				
Surr: 4-Bromofluorobenzene	97.8	39.1-146	%Rec	1	2/24/2024 3:48:34 PM	80580				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range RL Reporting Limit

Page 2 of 11

D Sample Diluted Due to Matrix Н

Analytical Report Lab Order 2402A47 Date Reported: 3/6/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Hilcorp Energy

Sammons 2

Project:

Client Sample ID: HA02@3 Collection Date: 2/21/2024 11:20:00 AM Pageiyad Date: 2/22/2024 7:00:00 AM

Lab ID: 2402A47-003	Matrix: SOIL		Received Date: 2/22/2024 7:00:00 AM								
Analyses	Result	RL	RL Qual Units		Date Analyzed	Batch					
EPA METHOD 300.0: ANIONS					Analyst	SNS					
Chloride	100	59	mg/Kg	20	2/28/2024 12:12:10 PM	80683					
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JKU					
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/27/2024 6:13:41 PM	80645					
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/27/2024 6:13:41 PM	80645					
Surr: DNOP	106	61.2-134	%Rec	1	2/27/2024 6:13:41 PM	80645					
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	JJP					
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/24/2024 4:36:09 PM	80580					
Surr: BFB	97.1	15-244	%Rec	1	2/24/2024 4:36:09 PM	80580					
EPA METHOD 8021B: VOLATILES					Analyst	JJP					
Benzene	ND	0.025	mg/Kg	1	2/24/2024 4:36:09 PM	80580					
Toluene	ND	0.050	mg/Kg	1	2/24/2024 4:36:09 PM	80580					
Ethylbenzene	ND	0.050	mg/Kg	1	2/24/2024 4:36:09 PM	80580					
Xylenes, Total	ND	0.099	mg/Kg	1	2/24/2024 4:36:09 PM	80580					
Surr: 4-Bromofluorobenzene	94.8	39.1-146	%Rec	1	2/24/2024 4:36:09 PM	80580					

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limitsP Sample pH Not In Range
- RL Reporting Limit

Page 3 of 11

D Sample Diluted Due to MatrixH Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Analytical Report Lab Order 2402A47 Date Reported: 3/6/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Hilcorp Energy

Sammons 2

Project:

Client Sample ID: HA02@4 Collection Date: 2/21/2024 11:30:00 AM Provised Data: 2/22/2024 7:00:00 AM

Lab ID: 2402A47-004	Matrix: SOIL		Received Date: 2/22/2024 7:00:00 AM							
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch				
EPA METHOD 300.0: ANIONS					Analyst	SNS				
Chloride	140	60	mg/Kg	20	2/28/2024 12:24:32 PM	80683				
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JKU				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/27/2024 6:25:47 PM	80645				
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/27/2024 6:25:47 PM	80645				
Surr: DNOP	89.6	61.2-134	%Rec	1	2/27/2024 6:25:47 PM	80645				
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	JJP				
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/24/2024 4:59:59 PM	80580				
Surr: BFB	97.1	15-244	%Rec	1	2/24/2024 4:59:59 PM	80580				
EPA METHOD 8021B: VOLATILES					Analyst	JJP				
Benzene	ND	0.025	mg/Kg	1	2/24/2024 4:59:59 PM	80580				
Toluene	ND	0.050	mg/Kg	1	2/24/2024 4:59:59 PM	80580				
Ethylbenzene	ND	0.050	mg/Kg	1	2/24/2024 4:59:59 PM	80580				
Xylenes, Total	ND	0.10	mg/Kg	1	2/24/2024 4:59:59 PM	80580				
Surr: 4-Bromofluorobenzene	94.8	39.1-146	%Rec	1	2/24/2024 4:59:59 PM	80580				

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

* Value exceeds Maximum Contaminant Level. **Qualifiers:**

- D Sample Diluted Due to Matrix Н
- Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

- Analyte detected in the associated Method Blank в
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit
- RL

Page 4 of 11
Analytical Report
Lab Order 2402A47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/6/2024

CLIENT: Hilcorp Energy		Cl	ient Sample II	D: H <i>A</i>	A03@1	
Project: Sammons 2		(Collection Dat	e: 2/2	21/2024 12:00:00 PM	
Lab ID: 2402A47-005	Matrix: SOIL		Received Dat	e: 2/2	22/2024 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 12:36:52 PM	80683
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	JKU
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/27/2024 6:37:58 PM	80645
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/27/2024 6:37:58 PM	80645
Surr: DNOP	87.2	61.2-134	%Rec	1	2/27/2024 6:37:58 PM	80645
EPA METHOD 8015D: GASOLINE RANGE	l .				Analyst	JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/24/2024 5:23:45 PM	80580
Surr: BFB	97.4	15-244	%Rec	1	2/24/2024 5:23:45 PM	80580
EPA METHOD 8021B: VOLATILES					Analyst	JJP
Benzene	ND	0.025	mg/Kg	1	2/24/2024 5:23:45 PM	80580
Toluene	ND	0.049	mg/Kg	1	2/24/2024 5:23:45 PM	80580
Ethylbenzene	ND	0.049	mg/Kg	1	2/24/2024 5:23:45 PM	80580
Xylenes, Total	ND	0.099	mg/Kg	1	2/24/2024 5:23:45 PM	80580
Surr: 4-Bromofluorobenzene	96.2	39.1-146	%Rec	1	2/24/2024 5:23:45 PM	80580

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- H Holding times for preparation or analysis exceededND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

- E Above Quantitation Range/Estimated ValueJ Analyte detected below quantitation limits
- P Sample pH Not In Range

Page 5 of 11

D Sample Diluted Due to Matrix

RL Reporting Limit

Analytical Report
Lab Order 2402A47

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/6/2024

CLIENT: Hilcorp Energy Project: Sammons 2			ient Sample II Collection Dat		A03@3 21/2024 12:20:00 PM	
Lab ID: 2402A47-006	Matrix: SOIL				22/2024 7:00:00 AM	
Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	SNS
Chloride	ND	60	mg/Kg	20	2/28/2024 1:13:54 PM	80683
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst	: JKU
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/27/2024 6:50:02 PM	80645
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/27/2024 6:50:02 PM	80645
Surr: DNOP	87.5	61.2-134	%Rec	1	2/27/2024 6:50:02 PM	80645
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst	: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/24/2024 5:47:27 PM	80580
Surr: BFB	98.5	15-244	%Rec	1	2/24/2024 5:47:27 PM	80580
EPA METHOD 8021B: VOLATILES					Analyst	: JJP
Benzene	ND	0.025	mg/Kg	1	2/24/2024 5:47:27 PM	80580
Toluene	ND	0.050	mg/Kg	1	2/24/2024 5:47:27 PM	80580
Ethylbenzene	ND	0.050	mg/Kg	1	2/24/2024 5:47:27 PM	80580
Xylenes, Total	ND	0.099	mg/Kg	1	2/24/2024 5:47:27 PM	80580
Surr: 4-Bromofluorobenzene	96.4	39.1-146	%Rec	1	2/24/2024 5:47:27 PM	80580

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: * Value exceeds Maximum Contaminant Level.

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- NDNot Detected at the Reporting LimitPQLPractical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

Page 6 of 11

	Hilcorp Energy Sammons 2									
Sample ID: LCS-806	83 Samp	Type: LC	s	Tes	tCode: El	PA Method	300.0: Anion	s		
Client ID: LCSS	Bato	h ID: 80	683	F	RunNo: 1	03398				
Prep Date: 2/28/20	Analysis I	Date: 2/	28/2024	S	SeqNo: 3	825355	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	Hilcorp I	•••									
Project:	Sammons	s 2									
Sample ID:	MB-80645	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	PBS	Batch	n ID: 80	645	F	tunNo: 10	03351				
Prep Date:	2/26/2024	Analysis D	0ate: 2/	27/2024	S	eqNo: 3	823708	Units: mg/ #	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND	10								
Motor Oil Rang	e Organics (MRO)	ND	50								
Surr: DNOP		9.0		10.00		89.9	61.2	134			
Sample ID:	LCS-80645	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	LCSS	Batch	n ID: 80	645	F	tunNo: 10	03351				
Prep Date:	2/26/2024	Analysis D)ate: 2/	27/2024	S	eqNo: 3	823709	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	40	10	50.00	0	80.1	59.7	135			
Surr: DNOP		4.6		5.000		91.8	61.2	134			
Sample ID:	2402A47-001AMS	SampT	уре: М	5	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	HA01@2	Batch	n ID: 80	645	F	tunNo: 10	03351				
Prep Date:	2/26/2024	Analysis D)ate: 2/	27/2024	S	eqNo: 3	823711	Units: mg/ #	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	36	8.9	44.44	0	80.1	43.7	136			
Surr: DNOP		4.0		4.444		90.4	61.2	134			
Sample ID:	2402A47-001AMS	D SampT	уре: М	SD.	Tes	tCode: Ef	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID:	HA01@2	Batch	n ID: 80	645	F	tunNo: 10	03351				
Prep Date:	2/26/2024	Analysis D)ate: 2/	27/2024	S	eqNo: 3	823712	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	37	9.3	46.47	0	78.6	43.7	136	2.55	31.3	
Surr: DNOP		4.1		4.647		87.9	61.2	134	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A47 06-Mar-24

Client: Hilco	orp Energy			
Project: Samm	nons 2			
Sample ID: Ics-80580	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: LCSS	Batch ID: 80580	RunNo: 103284		
Prep Date: 2/22/2024	Analysis Date: 2/24/2024	SeqNo: 3820651	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	24 5.0 25.0	0 0 94.8 70	130	
Surr: BFB	2000 100) 201 15	244	
Sample ID: Ics-80597	SampType: LCS	TestCode: EPA Method	I 8015D: Gasoline Rang	e
Client ID: LCSS	Batch ID: 80597	RunNo: 103284		
Prep Date: 2/22/2024	Analysis Date: 2/23/2024	SeqNo: 3820653	Units: %Rec	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	2100 100) 213 15	244	
Sample ID: mb-80580	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Rang	e
Client ID: PBS	Batch ID: 80580	RunNo: 103284		
Prep Date: 2/22/2024	Analysis Date: 2/24/2024	SeqNo: 3820655	Units: mg/Kg	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	940 100	94.2 15	244	
Sample ID: mb-80597	SampType: MBLK	TestCode: EPA Method	I 8015D: Gasoline Rang	e
Client ID: PBS	Batch ID: 80597	RunNo: 103284		
Prep Date: 2/22/2024	Analysis Date: 2/23/2024	SeqNo: 3820657	Units: %Rec	
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	1000 1000) 99.9 15	244	

Qualifiers:

Ξ

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated. S
- в Analyte detected in the associated Method Blank
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits

Р Sample pH Not In Range

Page 9 of 11

Reporting Limit RL

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 2402A47 06-Mar-24

Client:HilcorpProject:Sammon										
Sample ID: LCS-80580	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 80	580	R	tunNo: 10	03284				
Prep Date: 2/22/2024	Analysis D	ate: 2/	24/2024	S	eqNo: 3	820890	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	70	130			
Toluene	0.96	0.050	1.000	0	96.4	70	130			
Ethylbenzene	0.98	0.050	1.000	0	97.9	70	130			
Xylenes, Total	3.0	0.10	3.000	0	98.4	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		95.1	39.1	146			
Sample ID: LCS-80597	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 80	597	R	tunNo: 10	03284				
Prep Date: 2/22/2024	Analysis D	ate: 2/	23/2024	S	eqNo: 3	820891	Units: %Red	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		107	39.1	146			
Sample ID: mb-80580	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 80	580	R	unNo: 10	03284				
Prep Date: 2/22/2024	Analysis D	ate: 2/	24/2024	S	eqNo: 3	820892	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	39.1	146			
Sample ID: mb-80597	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	ID: 80	597	R	tunNo: 10	03284				
Prep Date: 2/22/2024	Analysis D	ate: 2/	23/2024	S	eqNo: 3	820893	Units: %Red	•		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		100	39.1	146			
Sample ID: 2402a47-001ams	SampT	ype: MS	5	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: HA01@2	Batch	ID: 80	580	R	tunNo: 10	03284				
Prep Date: 2/22/2024	Analysis D	ate: 2/	24/2024	S	eqNo: 3	820940	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9862	0	106	70	130			
Toluene	1.1	0.049	0.9862	0	109	70	130			
Ethylbenzene	1.1	0.049	0.9862	0	113	70	130			
Xylenes, Total	3.4	0.099	2.959	0	114	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded ND

Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of standard limits. If undiluted results may be estimated. S

В Analyte detected in the associated Method Blank

Above Quantitation Range/Estimated Value Е

J Analyte detected below quantitation limits

Р Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

0.97

WO#: 2402A47 06-Mar-24

Client: Project:	Hilcorp E Sammons	0.									
Sample ID:	2402a47-001ams	SampT	ype: M	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	HA01@2	Batch	h ID: 80	580	F	RunNo: 1	03284				
Prep Date:	2/22/2024	Analysis D	Date: 2	/24/2024	S	SeqNo: 3	820940	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.96		0.9862		97.7	39.1	146			
Sample ID:	2402a47-001amsd	SampT	ype: M	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Sample ID: Client ID:	2402a47-001amsd HA01@2		ype: M D: 80			tCode: El RunNo: 1		8021B: Volat	iles		
	HA01@2		h ID: 80	580	R		03284	8021B: Volat Units: mg/K			
Client ID:	HA01@2	Batch	h ID: 80	580	R	RunNo: 1	03284			RPDLimit	Qual
Client ID: Prep Date:	HA01@2	Batch Analysis D	h ID: 80 Date: 2 /	580 /24/2024	F S	RunNo: 1 SeqNo: 3	03284 820942	Units: mg/k	g	RPDLimit 20	Qual
Client ID: Prep Date: Analyte	HA01@2	Batch Analysis D Result	n ID: 80 Date: 2 / PQL	580 /24/2024 SPK value	R S SPK Ref Val	RunNo: 10 SeqNo: 3 %REC	03284 820942 LowLimit	Units: mg/K HighLimit	g %RPD		Qual
Client ID: Prep Date: Analyte Benzene	HA01@2	Batch Analysis D Result 0.99	n ID: 80 Date: 2 / PQL 0.024	580 /24/2024 SPK value 0.9747	F S SPK Ref Val 0	RunNo: 10 SeqNo: 3 %REC 102	03284 820942 LowLimit 70	Units: mg/K HighLimit 130	5g <u>%RPD</u> 4.94	20	Qual

0.9747

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank

99.3

39.1

146

0

0

- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Environment Testin

Eurofins Environment Testing South Central, LLC 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallawironmental.com

Sample Log-In Check List

	Website: www.hc	llenvironme	ental.com		
Client Name: Hilcorp Energy	Work Order Number	2402A47		RcptNo:	1
Received By: Tracy Casarrubias	2/22/2024 7:00:00 AM				
Completed By: Tracy Casarrubias	2/22/2024 8:09:44 AM				
Reviewed By:	2/22/24				
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sample delivered?		<u>Courier</u>			
Log In					
3. Was an attempt made to cool the samp	bles?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received at a tempera	ature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗔	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample volume for indicated t	est(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) pr	operly preserved?	Yes 🔽	No 🗌		
8. Was preservative added to bottles?		Yes	No 🗹	NA 🗌	
9. Received at least 1 vial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample containers received I	proken?	Yes 🗌	No 🔽	# of preserved	
44 -				bottles checked	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody	()	Yes 🔽	No	for pH: (<2 or >	>12 unless noted)
12. Are matrices correctly identified on Cha		Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested	1?	Yes 🗹	No 🗌		
14. Were all holding times able to be met? (If no, notify customer for authorization.))	Yes 🗹	No 🗌	Checked by:	12/22/2
Special Handling (if applicable)	,				
15. Was client notified of all discrepancies	with this order?	Yes 🗌	No 🗌	NA 🔽	
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone 🔲 Fax	In Person	
Regarding:	and the second				
Client Instructions: Mailing addr	ess and phone number are mi	ssina ono (COC- TMC 2/22/24		
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Condition	Seal Intact Seal No S	eal Date	Signed By		
1 3.2 Good	Yes Morty				

С	hain	of-Cu	istody Record	Turn-	Around	Time: 5-6	٩Y	-	ļ		F	A	LL	E	NV	IF	20	NN	1E	NT	AL	-	
Client:	Hilcor	e Ener	ay Company		tandard	🗆 Rush					A	N	AL	YS	SIS	5 L	AE	30	RA	TC	R	Y	
<u>Attn</u> Mailing	Address	in K	gy Company illough	-	ct Name m m จก	s #2			49	ол н							al.co e, NI		109				
t <u></u>				Proje	ct #:		<u></u>		Te	el. 50	5-34	15-39	975	P	ax	505-	345-	410	7				
Phone	#:												A	naly	/sis	Req	uest						
email o	r Fax#:	nkillou	gh@hilcorp.com	Proje	ct Mana	nger:		?	ô					04	1 - 1 1		Ŧ						
	Package:		Level 4 (Full Validation)		. H	yde		BTEX /- MTBE / TMB's (8021)	DRO / MRO)	PCB's		PAHs by 8310 or 8270SIMS		CI, F. Br, NO3, NO2, PO4, SO4			Total Coliform (Present/Absent)						
Accredi	tation:	□ Az Co	mpliance	Sam	oler: 🖡	1 Thoms		1	l ∽ I	3082	÷	827		NO ₂			lese						
		Other		On Ic		V Yes	1 No marty		RO	es/8	504	- Do	Se l	3,1		AO/	Ē						
	(Type)	1			Coolers:		5-0.1=3.2 (°C)	19	D)C	ticid	Port	831	Meta	¥	(A	- L	forn						
				CUOR	пеш			11	3015	Pes	Met	Ą	181	Br,	N N	(Sei	l <u>ii</u>			1.1			
				Conta		Preservative		Ä	TPH:8015D(GRO	8081 Pesticides/8082	EDB (Method 504.1)	AHs	RCRA 8 Metals	1	8260 (VOA)	8270 (Semi-VOA)	otal						
Date	Time	Matrix	Sample Name		and #	Type	2402A47	1	F	×	ш	<u> </u>	<u>~</u>	S	<u>/</u> 20	8	Ē		\rightarrow		+		-
2-21	1040	Soil	HAD102	1×	402	6001	001	\bigwedge	ĻХ			_		Ą					\rightarrow		\rightarrow		_
	1050		HA0103				002	\square	\square					\downarrow									_
	1120		HA0203				003																
	1130		HAD2@ 4			6	004																
	1200		HA0301				005	Π						1									
Y	<u>h20</u>	V	HA0303		↓	4	006	\checkmark	\checkmark					V									
	÷.	<u> </u>																					_
								-					-							-		-	-
							the start of the s																
Date:]- 】 \	Time: 1420	Relinquis	Thomson C	- / 1	ved by:	Nout	Date Time	Re	mark	s:	2100	se	С	С,	S	hi	de ichi	0 Pr+	en"	SOLI	JM.	.Cop NCO	n
\mathcal{D} ate: \mathcal{D} \mathcal{U}	Time:	1001	inter Nack		ved by:	Via: CauA	2/22/24 7:00																
	If necessar	y, samples su	bmitted to Hall Environmental may be s	ubcontracto	ed to other	accredited laborator	ies. This serves as notice of th	is pos	sibility.	Any s	ub-co:	ntracte	d data	will b	e dea	rly not	ated or	n the a	nalytica	al repo	rt.		

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS

Action 327276

QUESTIONS	
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	327276
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2336429577
Incident Name	NAPP2336429577 SAMMONS NO. 2 @ 30-045-09025
Incident Type	Oil Release
Incident Status	Remediation Plan Received
Incident Well	[30-045-09025] SAMMONS #002

Location of Release Source

Please answer all the questions in this group.	
Site Name	Sammons No. 2
Date Release Discovered	12/29/2023
Surface Owner	Private

Incident Details

Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	Νο
Has this release endangered or does it have a reasonable probability of endangering public health	Νο
Has this release substantially damaged or will it substantially damage property or the environment	No
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	Νο

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Not answered.	
Is the concentration of chloride in the produced water >10,000 mg/l	No	
Condensate Released (bbls) Details	Cause: Equipment Failure Production Tank Condensate Released: 6 BBL Recovered: 0 BBL Lost: 6 BBL.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	On 12/29/2023 at approximately 12:30 pm (MT), a Hilcorp operator discovered a 6-bbl condensate release at the Sammons 2 (API No. 30-045-09025) in San Juan County, NM (36.77139, -108.11789) while performing AVO surveys. Surface ownership at the site is fee surface/fee mineral (Parcel Owner: Andrea Corporation). Upon discovery, the operator observed fluids within secondary containment. Although none of the fluids migrated horizontally outside of secondary containment, approximately 6 bbls of fluid are assumed to have soaked into the underlying soils beneath the liner. It is believed that the spilled fluids were recovered with a water hauler truck on the day of the release, but a waste ticket was not generated by the hauler since it was placed back into the condensate tank after being recovered. At this time, the primary cause is determined to be a cracked hammer union on the oil fill line.	

Received by OCD: 3/27/2024 12:14:27 PM

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State of New Mexico Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 2

Action 327276

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	327276
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Nature and Volume of Release (continued)		
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.	
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No	
Reasons why this would be considered a submission for a notification of a majo release	Dr Unavailable.	
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.		

Initial	Response
---------	----------

The responsible party must undertake the following actions immediately unless they could create a s	safety hazard that would result in injury
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	False
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Although none of the fluids migrated horizontally outside of secondary containment, approximately 6 bbls of fluid are assumed to have soaked into the underlying soils beneath the liner. It is believed that the spilled fluids were recovered with a water hauler truck on the day of the release, but a waste ticket was not generated by the hauler since it was placed back into the condensate tank after being recovered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist

Email: shyde@ensolum.com Date: 03/27/2024

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 3

Action 327276

Page 49 of 52

QUESTIONS (continued)	
Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	327276
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Less than or equal 25 (ft.)
What method was used to determine the depth to ground water	Direct Measurement
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release an	d the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 100 and 200 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 100 (ft.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 300 and 500 (ft.)
Any other fresh water well or spring	Between 300 and 500 (ft.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 300 and 500 (ft.)
A wetland	Between 1 and 100 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Between 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Requesting a remediation	plan approval with this submission	Yes
		on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
	•	
Have the lateral and vertica	l extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area		Νο
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	650
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	436
GRO+DRO	(EPA SW-846 Method 8015M)	326
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 N		
Per Subsection B of 19.15.29.11 N which includes the anticipated time	, IMAC unless the site characterization report includes complete	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 05/01/2024
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date wil	MAC unless the site characterization report includes complete elines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date will On what date will (or did) th	MAC unless the site characterization report includes complete elines for beginning and completing the remediation. I the remediation commence	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 05/01/2024
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date wil On what date will (or did) th On what date will (or was) t	IMAC unless the site characterization report includes complete elines for beginning and completing the remediation. I the remediation commence he final sampling or liner inspection occur	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 05/01/2024 05/01/2024
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date wil On what date will (or did) th On what date will (or was) t What is the estimated surfa	MAC unless the site characterization report includes complete elines for beginning and completing the remediation. I the remediation commence he final sampling or liner inspection occur he remediation complete(d)	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 05/01/2024 05/01/2024 06/01/2024
Per Subsection B of 19.15.29.11 N which includes the anticipated time On what estimated date will On what date will (or did) th On what date will (or was) t What is the estimated surfa What is the estimated volur	MAC unless the site characterization report includes complete elines for beginning and completing the remediation. I the remediation commence he final sampling or liner inspection occur he remediation complete(d) ice area (in square feet) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 05/01/2024 05/01/2024 06/01/2024 0
Per Subsection B of 19.15.29.11 N which includes the anticipated tim On what estimated date will On what date will (or did) th On what date will (or was) t What is the estimated surfa What is the estimated volur What is the estimated surfa	MAC unless the site characterization report includes complete elines for beginning and completing the remediation. I the remediation commence the final sampling or liner inspection occur the remediation complete(d) ice area (in square feet) that will be reclaimed me (in cubic yards) that will be reclaimed	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 05/01/2024 05/01/2024 06/01/2024 0 0 0

esponsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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State of New Mexico Energy, Minerals and Natural Resources **Oil Conservation Division** 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 4

Action 327276

QUESTIONS (continued)		
Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street Houston, TX 77002	Action Number:	
	327276	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be p	provided to the appropriate district office no later than 90 days after the release discovery date.	
This remediation will (or is expected to) utilize the following processes to	o remediate / reduce contaminants:	
(Select all answers below that apply.)		

(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	ENVIROTECH [fSC0000000048]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	No	
OR is the off-site disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA which includes the anticipated timelines for beginning and completing the remediation.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.		
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com	

Date: 03/27/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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Action 327276

Page 51 of 52

QUESTIONS (continued)		
Operator: HILCORP ENERGY COMPANY	OGRID: 372171	
1111 Travis Street Houston, TX 77002	Action Number: 327276	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
	·	

QUESTIONS

Deferral Requests Only			
only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.			
Requesting a deferral of the remediation closure due date with the approval of this submission	No		

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QUESTIONS, Page 6

Action 327276

Page 52 of 52

QUESTIONS (continued) Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number Houston, TX 77002 327276 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	315236
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/21/2024
What was the (estimated) number of samples that were to be gathered	20
What was the sampling surface area in square feet	30000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. Requesting a remediation closure approval with this submission No

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CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	327276
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan is approved as written. Hilcorp has 90-days (July 31, 2024) to submit to OCD its appropriate or final remediation closure report.	5/2/2024

Page 53 of 52

Action 327276