

February 23, 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 Report and Closure Request San Juan 29-6 Unit 61M Rio Arriba County, New Mexico Hilcorp Energy Company NMOCD Incident Number: nAPP2333159777

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Remediation Report and Closure Request* associated with a release discovered at the San Juan 29-6 Unit 61M well site (Site). The Site is located on private land in Unit K, Section 19, Township 29 North, Range 6 West in Rio Arriba County, New Mexico (Figure 1).

#### SITE BACKGROUND

On November 27, 2023, Hilcorp personnel discovered 83.5 barrels (bbls) of condensate and 8.9 bbls of produced water was released at the Site due to a frozen water drain valve on the 286 bbl aboveground condensate tank. No fluids were recovered, however, all released fluids remained within the secondary containment footprint. The spill volumes were determined based on Hilcorp's tank gauging data. A 24-hour release notification was submitted to the New Mexico Oil Conservation Division (NMOCD) on November 27, 2023, and was assigned NMOCD Incident Number nAPP2333159777.

#### SITE CHARACTERIZATION

The Site is located on private land in Rio Arriba County, New Mexico. 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.

### GEOLOGY AND HYDROGEOLOGY

The Site is located in Tertiary (Eocene) age San Jose Formation and is 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 San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

#### POTENTIAL SENSITIVE RECEPTORS

photographs, and Site-specific observations.

Potential nearby receptors were assessed through desktop reviews of United States Geological Survey (USGS) topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, New Mexico Office of the State Engineer (NMOSE) database, aerial

The nearest surface water feature is a dry stock pond 450 feet to the northeast of the Site (Figure 2). Of note, a dashed blue line is present on the USGS 7.5-minute quadrangle maps for this area (solid blue line indicated on Figures 1 and 3). Ensolum personnel performed a Site walk during field activities to assess for the presence of a water feature or dry wash with a defined bed and bank within 300 feet of the Site that may be considered a "significant watercourse" (as defined in 19.15.17.7 NMAC). Photographs 1 through 3 (presented in Appendix A) were taken along the pathway of the USGS identified water feature and show that a watercourse with a defined bed and bank is not present within 300 feet of the Site. Based on the Site reconnaissance, the nearest significant watercourse as identified by a defined bed and bank is in Gobernador Canyon, located approximately 1,000 feet north of the Site.

The closest water well is located approximately 3,280 feet west northwest of the Site (NMOSE well permit SJ-03573); however, depth to water information is not provided in the NMOSE database. The closest water well to the Site with depth to water information is NMOSE well SJ-03809-POD1 (Appendix B), located approximately 3,400 feet northwest of the Site. This well indicates the groundwater is approximately 260 feet below ground surface (bgs). The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, and greater than 300 feet from a wetland. No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, 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): 2,500 mg/kg
- GRO+DRO: 1,000 mg/kg
- Chloride: 20,000 mg/kg

### DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

On December 12, 2023, Ensolum personnel visited the Site to assess the significant watercourse feature and delineate the depth of impacted soil using a backhoe. A pothole was excavated to a total depth of 8 feet bgs. Soil was field screened for volatile organic compounds (VOCs) at 1-foot intervals using a calibrated photoionization detector (PID). One sample (SS01) was collected from the terminus of the pothole at 8 feet bgs, where field screening indicated soil was no longer impacted based on PID readings and visual/olfactory observations. The sample was submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico and analyzed for TPH following Environmental Protection Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0.



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Between January 25, 2024, and February 1, 2024, Ensolum personnel conducted excavation oversight and sampling activities at the Site. Notification to NMOCD was provided at least two business days prior to conducting remediation and sampling work, with correspondence attached in Appendix C. To direct excavation activities during excavation, Ensolum personnel field screened soil for VOCs using a calibrated PID. Once field screening indicated impacted soil had been removed, five-point composite soil samples were collected from the floor (FS01 through FS14) and sidewalls (WS01/WS01A through WS05/WS05A) of the excavation at a frequency of one sample per 200 square feet. Sidewall samples WS01 through WS05 were collected from the ground surface to depths of 4 feet bgs. Sidewall samples WS01A through WS05A were collected from depths below 4 feet bgs up to depths of 8.5 feet bgs. Sample locations are presented on Figure 4.

The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The soil samples were transported under proper chain of custody procedures to Eurofins and submitted for analyses of BTEX, TPH and chloride following the EPA Methods listed above. Analytical results from the excavation indicated concentrations of all COCs were compliant with NMOCD Table I Closure Criteria and the reclamation requirement in all of the collected confirmation samples. In total, approximately 1,000 cubic yards of impacted soil was removed and transported to the Envirotech, Inc. landfarm located in San Juan County, New Mexico. Soil sample results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix D. Photographs taken by Ensolum during the excavation work are included in Appendix A.

#### **CLOSURE REQUEST**

Site excavation and sampling activities were conducted at the Site to address the release of condensate and produced water discovered on November 27, 2023. Laboratory analytical results for the excavation confirmation soil samples, collected from the final excavation extent, indicated all COC concentrations were compliant with the Site Closure Criteria and no further remediation is required. Excavation of impacted soil has mitigated impacts at this Site and these remedial actions have been protective of human health, the environment, and groundwater. As such, Hilcorp respectfully requests closure for Incident Number nAPP2333159777.

#### REFERENCES

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

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

Sincerely, Ensolum, LLC

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#### Attachments:

Figure 1:	Site Receptor Map
Figure 2:	Field Verified Site Receptors
Figure 3:	Photograph Locations
Figure 4:	Excavation Soil Sample Results
Table 1:	Excavation Soil Sample Analytical Results
Appendix A:	Photographic Log
Appendix B:	NMOSE Well Record & Log – SJ-03809
Appendix C:	Agency Sampling Notifications

Appendix D: Laboratory Analytical Reports

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# FIGURES











## TABLES

						ON SOIL SAMP San Juan 2 Hilcorp Ene	BLE 1 LE ANALYTICAI 9-6 Unit 61M rgy Company nty, New Mexico	L RESULTS					
Sample Designation	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)	TPH GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure	e Criteria for Soil Release	Is Impacted by a	10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
						Delineation	Soil Samples						
SS01	12/12/2023	8.0	<0.021	< 0.042	<0.042	<0.084	<0.084	<4.2	<8.9	<45	<8.9	<45	<60
					Exca	vation Floor Co	mposite Soil Sam	nples					
FS01	1/30/2024	8.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<9.5	<48	200
FS02	1/30/2024	8.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<9.8	<49	270
FS03	1/30/2024	8.0	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.3	<46	<9.3	<46	330
FS04	1/30/2024	8.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	340
FS05	1/30/2024	8.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	530
FS06	1/30/2024	8.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<9.4	<47	370
FS07	2/1/2024	8.0	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<9.6	<48	180
FS08	2/1/2024	8.0	0.091	0.43	<0.049	0.39	0.911	<4.9	<9.0	<45	<9.0	<45	150
FS09	2/1/2024	8.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	140
FS10	2/1/2024	8.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.1	<45	<9.1	<45	170
FS11	2/1/2024	8.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.9	<45	<8.9	<45	270
FS12	2/1/2024	8.5	0.047	0.24	<0.048	0.39	0.677	<4.8	<9.4	<47	<9.4	<47	100
FS13	2/1/2024	8.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	210
FS14	2/1/2024	8.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.1	<46	<9.1	<46	190
					Excava	ation Sidewall C	omposite Soil Sa	mples					
WS01	1/30/2024	0 - 4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	<60
WS01A	1/30/2024	4 - 8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<47	<9.5	<47	<60
WS02	1/30/2024	0 - 4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<9.8	<49	<60
WS02A	1/30/2024	4 - 8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<9.5	<47	<60
WS03	1/30/2024	0 - 4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<9.8	<49	<60
WS03A	1/30/2024	4 - 8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<9.5	<47	<60
WS04	1/30/2024	0 - 4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<47	<9.3	<47	<60
WS04A	1/30/2024	4 - 8	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<9.4	<47	<60
WS05	2/1/2024	0 - 4	<0.024	<0.049	<0.049	<0.097	< 0.097	<4.9	<9.6	<48	<9.6	<48	<60
WS05A	2/1/2024	4 - 8.5	<0.023	< 0.047	<0.047	<0.094	<0.094	<4.7	<8.7	<44	<8.7	<44	<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 DRO: Diesel Range Organics GRO: Gasoline Range Organics

MRO: Motor Oil Range Organics TPH: Total Petroleum Hydrocarbon

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 ${\scriptstyle <:}$  indicates result less than the stated laboratory reporting limit (RL)

# **ENSOLUM**

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APPENDIX A

Photographic Log



E N S O L U M









## APPENDIX B

# NMOSE Well Record & Log – SJ-03809



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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## APPENDIX C

# Agency Sampling Notifications

From:	OCDOnline@state.nm.us
То:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 292826
Date:	Friday, December 8, 2023 3:06:21 PM

#### **\*\*EXTERNAL EMAIL\*\***]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2333159777.

The sampling event is expected to take place:

**When:** 12/12/2023 @ 10:00 **Where:** K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

Additional Information: Ensolum will be sampling at the Site, Contact is Reece Hanson, 970-210-9803.

Additional Instructions: Site coordinates: 36.709348, -107.506598

Sampling is being performed for delineation purposes. The stated sampling area is the total approximate area that we will be investigating and does not constitute the area of soil impacts. Approximately 2 samples will be collected for laboratory analysis from each pothole advanced during delineation.

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
To:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 307853
Date:	Thursday, January 25, 2024 12:16:57 PM

#### **\*\*EXTERNAL EMAIL\*\***]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2333159777.

The sampling event is expected to take place:

**When:** 01/30/2024 @ 08:00 **Where:** K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

Additional Information: Contact project PM Stuart Hyde; 970-903-1607

Additional Instructions: Site coordinates: 36.709348, -107.506598

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

**New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505

From:	OCDOnline@state.nm.us
То:	Stuart Hyde
Subject:	The Oil Conservation Division (OCD) has accepted the application, Application ID: 309653
Date:	Tuesday, January 30, 2024 3:38:49 PM

#### **\*\*EXTERNAL EMAIL\*\***]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2333159777.

The sampling event is expected to take place:

**When:** 02/01/2024 @ 09:00 **Where:** K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

Additional Information: Contact Project Manager Stuart Hyde, 970-903-1607.

The remedial excavation is currently ongoing at the site. Excavation will be continuing on February 1, 2024 in order to remove the

remaining impacted soil and collect confirmation samples. We are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Thursday February 1, 2024 beginning at 9 AM.

Additional Instructions: Site coordinates: 36.709348, -107.506598

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us.

### **New Mexico Energy, Minerals and Natural Resources Department** 1220 South St. Francis Drive Santa Fe, NM 87505

From:	Velez, Nelson, EMNRD
To:	Stuart Hyde
Cc:	Samantha Grabert
Subject:	Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 309653
Date:	Wednesday, January 31, 2024 7:19:47 AM
Attachments:	image001.png
	image002.png
	image003.png
	image004.png
	<u>Outlook-fp00gwf0.png</u>

[ \*\*EXTERNAL EMAIL\*\*]

Good morning Stuart,

Thank you for the notice. Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC or from an OCD pre-approved sampling plan. For whatever reason, if the sampling timeframe is altered, please notify the OCD as soon as possible so we may adjust our schedule(s). Failure to notify the OCD of this change may result in the closure sample(s) not being accepted.

Please keep a copy of this communication for inclusion within the appropriate report submittal.

Regards,

**Nelson Velez** • Environmental Specialist - Adv Environmental Bureau | EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87410 (505) 469-6146 | nelson.velez@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/



From: Stuart Hyde <shyde@ensolum.com>
Sent: Tuesday, January 30, 2024 3:39 PM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>
Cc: Samantha Grabert <Samantha.Grabert@hilcorp.com>
Subject: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application,

Application ID: 309653

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Nelson,

The remedial excavation at the Hilcorp San Juan 29-6 #61M site is currently has not yet been completed. We will be extending excavation work into Thursday February 1, 2024 in order to remove the remaining impacted soil and collect confirmation samples. We are requesting a variance of the 2-business day sampling notification requirement set forth in 19.15.29.12.D.(1).(a) in order to collect confirmation samples on February 1, 2024 beginning at 9 AM.

Please reach out with any questions. Thanks and have a good evening.



Stuart Hyde, PG Senior Geologist 970-903-1607 Ensolum, LLC

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, January 30, 2024 3:38 PM
To: Stuart Hyde <shyde@ensolum.com>
Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 309653

### [ \*\*EXTERNAL EMAIL\*\*]

To whom it may concern (c/o Stuart Hyde for HILCORP ENERGY COMPANY), The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2333159777.

The sampling event is expected to take place:

**When:** 02/01/2024 @ 09:00 **Where:** K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

Additional Information: Contact Project Manager Stuart Hyde, 970-903-1607.

The remedial excavation is currently ongoing at the site. Excavation will be continuing on February 1, 2024 in order to remove the remaining impacted soil and collect confirmation samples. We are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to

collect confirmation samples on Thursday February 1, 2024 beginning at 9 AM.

Additional Instructions: Site coordinates: 36.709348, -107.506598

An OCD representative may be available onsite at the date and time reported. In the absence or presence of an OCD representative, sampling pursuant to 19.15.29.12.D NMAC is required. Sampling must be performed following an approved sampling plan or pursuant to 19.15.29.12.D.(1).(c) NMAC. Should there be a change in the scheduled date and time of the sampling event, then another notification should be resubmitted through OCD permitting as soon as possible.

• Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.

If you have any questions regarding this application, or don't know why you have received this email, please contact us. New Mexico Energy, Minerals and Natural Resources Department

1220 South St. Francis Drive Santa Fe, NM 87505



## APPENDIX D

Laboratory Analytical Reports



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

December 21, 2023 Samantha Grabert HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: SJ 29 6 61M

OrderNo.: 2312722

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 12/13/2023 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

**Analytical Report** 

### Hall Environmental Analysis Laboratory, Inc.

Lab Order 2312722

Date Reported: 12/21/2023

CLIENT	HILCORP ENERGY	0	lient Sample ID: SS01
<b>Project:</b>	SJ 29 6 61M		Collection Date: 12/12/2023 11:00:00 AM
Lab ID:	2312722-001	Matrix: MEOH (SOIL)	<b>Received Date:</b> 12/13/2023 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	12/13/2023 11:13:51 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/13/2023 11:13:51 AM
Surr: DNOP	86.5	69-147	%Rec	1	12/13/2023 11:13:51 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.2	mg/Kg	1	12/13/2023 11:18:54 AM
Surr: BFB	95.2	15-244	%Rec	1	12/13/2023 11:18:54 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.021	mg/Kg	1	12/13/2023 11:18:54 AM
Toluene	ND	0.042	mg/Kg	1	12/13/2023 11:18:54 AM
Ethylbenzene	ND	0.042	mg/Kg	1	12/13/2023 11:18:54 AM
Xylenes, Total	ND	0.084	mg/Kg	1	12/13/2023 11:18:54 AM
Surr: 4-Bromofluorobenzene	97.5	39.1-146	%Rec	1	12/13/2023 11:18:54 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	ND	60	mg/Kg	20	12/13/2023 12:01:12 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
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range
- RL Reporting Limit

\*

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Client: Project:	HILCO SJ 29 6	DRP ENERGY 5 61M		
Sample ID:	MB-79348	SampType: MBLK	TestCode: EPA Method 300.0: Anio	ns
Client ID:	PBS	Batch ID: 79348	RunNo: 101805	
Prep Date:	12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754365 Units: mg	/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	%RPD RPDLimit Qual
Chloride		ND 1.5		
Sample ID:	LCS-79348	SampType: LCS	TestCode: EPA Method 300.0: Anio	ns
Client ID:	LCSS	Batch ID: 79348	RunNo: 101805	
Prep Date:	12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3754366 Units: mg	/Kg
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit	%RPD RPDLimit Qual
Chloride		14 1.5 15.00	0 94.4 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

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## WO#: 2312722

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21-Dec-23

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORF SJ 29 6 61		Y													
Sample ID:	2312722-001AMS	SampT	ype: <b>MS</b>	5	Tes	tCode: El	PA Method	d 8015M/D: Diesel Range Organics								
Client ID:	SS01	Batch	ID: 793	345	RunNo: 101807											
Prep Date:	12/13/2023	Analysis Date: 12/13/2023 SeqNo			SeqNo: 3	: 3752753 Units: mg/Kg										
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range C	Organics (DRO)	42	8.8	43.82	0	96.9	54.2	135								
Surr: DNOP		4.1		4.382		94.7	69	147								
Sample ID:	2312722-001AMSD	SampT	ype: MS	D	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics						
Client ID:	SS01	Batch	ID: 793	345	F	RunNo: 1	01807									
Prep Date:	12/13/2023	Analysis D	ate: 12	/13/2023	S	SeqNo: 3	752754	Units: mg/K	g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range C	Organics (DRO)	45	9.7	48.59	0	93.1	54.2	135	6.36	29.2						
Surr: DNOP		4.6		4.859		95.2	69	147	0	0						
Sample ID:	LCS-79345	SampT	ype: LC	S	TestCode: EPA Method 8015M/D: Diesel Range Organics											
Client ID:	LCSS	Batch	ID: 793	345	RunNo: 101807											
Prep Date:	12/13/2023	Analysis D	ate: 12	/13/2023	S											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range C	Organics (DRO)	43	10	50.00	0	85.0	61.9	130								
Surr: DNOP		4.2		5.000		83.8	69	147								
Sample ID:	MB-79345	SampT	уре: МЕ	BLK	Tes	tCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID:	PBS	Batch	ID: 793	345	RunNo: 101807											
Prep Date:	12/13/2023	Analysis D	ate: 12	/13/2023	S	SeqNo: 3	752756	Units: mg/K	g							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Diesel Range C	,	ND	10								-					
Motor Oil Range Surr: DNOP	e Organics (MRO)	ND 8.2	50	10.00		82.0	69	147								
Sull. DNOP		0.2		10.00		02.0	09	147								
Sample ID:		•	ype: ME					8015M/D: Die	sel Range	Organics						
Client ID:	PBS	Batch	ID: 792	261		RunNo: 1										
Prep Date:	12/8/2023	Analysis D	ate: 12	/13/2023	Ś	SeqNo: 3	754503	Units: %Rec	;							
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Surr: DNOP		11		10.00		109	69	147								
Sample ID:	LCS-79261	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	sel Range	Organics						
Client ID:	LCSS	Batch	ID: 792	261	F	RunNo: 1	01833									
Prep Date:	12/8/2023	Analysis D	ate: 12	/13/2023	S	SeqNo: 3	754504	Units: %Rec								
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					

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
- 5 % Recovery outside of standard limits. If undifficed results may be estimated

WO#: 2312722 21-Dec-23

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORF SJ 29 6 61		Y									
Sample ID: LC	S-79261	.CS	TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LC	SS	Batch	n ID: <b>7</b>	9261	F	RunNo: <b>1(</b>	01833					
Prep Date: 12	2/8/2023	Analysis D	ate:	12/13/2023	SeqNo: 3754504			Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		5.3		5.000		106	69	147				
Sample ID: ME	B-79326	SampT	ype: N	IBLK	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics		
Client ID: PB	BS	Batch	n ID: <b>7</b>	9326	RunNo: 101809							
Prep Date: 12	2/12/2023	Analysis D	ate:	12/13/2023	S	SeqNo: 37	754791	Units: %Rec				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP		8.2		10.00		82.3	69	147				
Sample ID: LC	S-79326	SampT	ype: L	.CS	Tes	tCode: EF	PA Method	8015M/D: Dies	el Range	Organics		
Client ID: LC	SS	Batch	n ID: <b>7</b>	9326	F	RunNo: <b>1(</b>	01809					
Prep Date: 12	2/12/2023	Analysis D	ate:	12/13/2023	5	SeqNo: 37	754792	Units: %Rec				
1												
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

Qualifiers:

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

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WO#: 2312722 21-Dec-23

### QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORE SJ 29 6 61		Y									
•	2.5UG GRO LCS LCSS	SampType: LCS TestCode: EPA Method Batch ID: GS101798 RunNo: 101798						8015D: Gaso	line Range			
Prep Date:		Analysis D			S	SeqNo: 3	752235	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	23	5.0	25.00	0	93.1	70	130				
Surr: BFB		2100		1000		209	15	244				
Sample ID:	mb	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Range			
Client ID:	PBS	Batch	n ID: <b>GS</b>	101798	F	RunNo: 1	01798					
Prep Date:		Analysis D	Date: 12	/13/2023	S	SeqNo: 3	752237	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	ND	5.0									
Surr: BFB		990		1000		98.8	15	244				
Sample ID:	2312722-001ams	SampT	уре: МS	;	Tes	tCode: El	PA Method	8015D: Gaso	line Range			
Client ID:	SS01	Batch	n ID: <b>GS</b>	101798	F	RunNo: 1	01798					
Prep Date:		Analysis D	Date: 12	/14/2023	S	SeqNo: 3	753440	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	18	4.2	20.92	0	86.2	70	130				
Surr: BFB		1700		836.8		204	15	244				
Sample ID:	2312722-001amsd	SampT	ype: MS	D	Tes	tCode: El	PA Method	8015D: Gaso	line Range			
Client ID:	SS01	Batch	n ID: <b>GS</b>	101798	F	RunNo: 1	01798					
Prep Date:		Analysis D	Date: 12	/14/2023	S	SeqNo: 3	753441	Units: <b>mg/Kg</b>				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	18	4.2	20.92	0	85.5	70	130	0.839	20		
Surr: BFB												

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
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- S % Recovery outside of standard limits. If undiluted results may be estimated.
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- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range

RL Reporting Limit

WO#: 2312722

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.

**Client:** 

**Project:** 

Sample ID: 100NG BTEX LCS

### **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

HILCORP ENERGY

SJ 29 6 61M

	•	••								
Client ID: LCSS	Batc	h ID: <b>BS</b>	101798	F	RunNo: 10					
Prep Date:	Analysis [	Date: 12	/13/2023	5	SeqNo: 3	752248	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	70	130			
Toluene	0.92	0.050	1.000	0	91.7	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.1	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			
Sample ID: <b>mb</b>	Samp	Гуре: МВ	BLK	Tes	tCode: El	PA Method	8021B: Volati	iles		
Sample ID: <b>mb</b> Client ID: <b>PBS</b>		Гуре: <b>МВ</b> h ID: <b>BS</b>			tCode: EF		8021B: Volati	iles		
		h ID: BS	101798	F		01798	8021B: Volati Units: mg/K			
Client ID: PBS	Batc	h ID: BS	101798	F	RunNo: 10	01798			RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date:	Batc Analysis [	h ID: BS Date: 12	101798 /13/2023	F	RunNo: <b>1(</b> SeqNo: <b>3</b>	01798 752249	Units: mg/K	g	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: Analyte	Batc Analysis [ Result	h ID: <b>BS</b> Date: <b>12</b> PQL	101798 /13/2023	F	RunNo: <b>1(</b> SeqNo: <b>3</b>	01798 752249	Units: mg/K	g	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: Analyte Benzene	Batc Analysis I Result ND	h ID: <b>BS</b> Date: <b>12</b> PQL 0.025	101798 /13/2023	F	RunNo: <b>1(</b> SeqNo: <b>3</b>	01798 752249	Units: mg/K	g	RPDLimit	Qual
Client ID: <b>PBS</b> Prep Date: Analyte Benzene Toluene	Batc Analysis I Result ND ND	h ID: <b>BS</b> Date: <b>12</b> PQL 0.025 0.050	101798 /13/2023	F	RunNo: <b>1(</b> SeqNo: <b>3</b>	01798 752249	Units: mg/K	g	RPDLimit	Qual

TestCode: EPA Method 8021B: Volatiles

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

WO#: 2312722 21-Dec-23

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#### 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 C	Order Numb	ber: 2312722		RcptNo:	1
Received By: Tracy Cas	sarrubias	12/13/20	23 6:30:00	АМ			
Completed By: Tracy Cas	sarrubias	12/13/20	23 6:41:30	AM			
Reviewed By: JN 12/1	3/23						
Chain of Custody							
1. Is Chain of Custody comp	olete?			Yes 🗌	No 🔽	Not Present 🗍	
2. How was the sample delive	vered?			<u>Courier</u>			
Log In					_	_	
3. Was an attempt made to	cool the samples?	>		Yes 🗹	No 🗌	NA 🗌	
4. Were all samples received	d at a temperature	of >0°C to	o 6.0°C	Yes 🔽	No 🗌	NA 🗌	
5. Sample(s) in proper conta	ainer(s)?			Yes 🗹	No 🗌		
6. Sufficient sample volume	for indicated test(	s)?		Yes 🗹	No 🗌		
7. Are samples (except VOA	and ONG) prope	rly preserved	d?	Yes 🗹	No 🗌		
8. Was preservative added to	o bottles?			Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 vial wi	th headspace <1/	4" for AQ VO	DA?	Yes 🗌	No 🗌	NA 🔽	
10. Were any sample contain	ers received brok	en?		Yes 🗆	No 🔽	# of preserved	
11.Does paperwork match bo (Note discrepancies on ch				Yes 🔽	No 🗌	bottles checked for pH:	>12 unless noted)
12. Are matrices correctly iden	ntified on Chain of	Custody?		Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses w	vere requested?			Yes 🗹	No 🗌		1.1.4
14. Were all holding times abl (If no, notify customer for				Yes 🗹	No 🗆	Checked by: T	12/13/23
Special Handling (if ap	plicable)				L		
15. Was client notified of all o	discrepancies with	this order?		Yes 🗌	No 🗌	NA 🔽	
Person Notified:			Date:	[			
By Whom:			Via:	eMail	] Phone 🗌 Fax	In Person	
Regarding:	X					and the Constant of the Second Second	
Client Instructions:	Mailing address	and phone i	number are	missing on CO	OC- TMC 12/13/23	3	
16. Additional remarks:							
17. <u>Cooler Information</u> Cooler No Temp ºC	Condition S	Seal Intact	Seal No	Seal Date	Signed By	****	
1 0.9	Good Ye				Signed by		
. 0.0		1	Morty 40	<b>)</b>		1	

Received by OCD: 2/23/2024 1:08:04 PM

Chain-of-Custody Record			Turn-Around				F			E	νv	TR	20	NM	1E	NT	AL				
Client:	Hild	iorp		□ Standard					HALL ENVIRONMENTAL ANALYSIS LABORATORY												
<u>Sa</u> Mailing	Samantha Grabert Mailing Address:			5J 29-6 #GIM				www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109													
				Project #:				Tel. 505-345-3975 Fax 505-345-4107 Analysis Request													
Phone	#:							1993 SA				A		sis	Req						
email o	r Fax#:5	amancha.	Grabert @ hilcorp.com	Project Mana	iger:		ज्ञि	Ô					NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub>		- 75	ent)		20			
QA/QC Ø Star	Package: ndard		Level 4 (Full Validation)	Stua	rt Hyde-	Ensolum	3' <del>s (80</del> ;	RO/M	2 PCB's		8270SIMS					ent/Abs					
	itation:	□ Az Co □ Other	ompliance	Sampler: On Ice:	E. Carroll	No morting	/ TMI	SO / DI	s/8082	504.1)	or 827	S		9	(YC	(Prese					
_	O (Type)			# of Coolers:			뱶	Э Э	cide	; pol	310	etal	Ŷ	()	-VC	E	Ju				
		×.				<u>+0.1-0.9 (°C)</u> HEAL No.	BTEX/-MTBE/ TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or	RCRA 8 Metals	Cl, F, Br, NO <sub>3</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	chloridu				
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	2312722		ЧТ	808	EDE	PA	RCI	Ċ,	826	827	Tot	<u> </u>			_	
12-12	11:00	50:1	5501	1403	0001	001	X	X									X	_	_	_	
		0.0								- 20						124					
																10.0		_		_	
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					16 2 7					_			-		100				-	$\neg$	
	-																		10 m 10 m		
Date:	12-12 1341			Received by: Via: Date Time 12/12/23 /3-// Received by: Via: COUNCE Batter Time					Remarks: CC: eCarroll @ ensolum. com												
12/12/2	3/720	> /h	not, Waller			12/13/23 6:30											1				



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 15, 2024 Samantha Grabert HILCORP ENERGY PO Box 4700 Farmington, NM 87499 TEL: (505) 564-0733 FAX:

RE: SJ 29 6 61 M

OrderNo.: 2402084

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 24 sample(s) on 2/2/2024 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
Ethylbenzene

Xylenes, Total

Chloride

Surr: 4-Bromofluorobenzene

**EPA METHOD 300.0: ANIONS** 

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

CLIENT: HILCORP ENERGY	Client Sample ID: FS01						
<b>Project:</b> SJ 29 6 61 M		Collection Date: 1/30/2024 1:30:00 PM					
Lab ID: 2402084-001	Matrix: SOIL	Matrix: SOIL Received Date: 2/2/2024 6:30:00 AM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: <b>JKU</b>		
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/5/2024 5:38:47 PM		
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/5/2024 5:38:47 PM		
Surr: DNOP	89.8	61.2-134	%Rec	1	2/5/2024 5:38:47 PM		
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: CCM		
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/7/2024 5:53:00 AM		
Surr: BFB	107	15-244	%Rec	1	2/7/2024 5:53:00 AM		
EPA METHOD 8021B: VOLATILES					Analyst: CCM		
Benzene	ND	0.024	mg/Kg	1	2/7/2024 5:53:00 AM		
Toluene	ND	0.048	mg/Kg	1	2/7/2024 5:53:00 AM		

ND

ND

96.4

Analyst: JMT 200 30 2/12/2024 11:54:02 AM mg/Kg 20

mg/Kg

mg/Kg

%Rec

1

1

1

2/7/2024 5:53:00 AM

2/7/2024 5:53:00 AM

2/7/2024 5:53:00 AM

0.048

0.096

39.1-146

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
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range

RL Reporting Limit Page 1 of 31

**EPA METHOD 300.0: ANIONS** 

Chloride

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402084

<b>CLIENT:</b> HILCORP ENERGY	Client Sample ID: FS02					
<b>Project:</b> SJ 29 6 61 M		Collect	tion Date:	1/30/2	024 1:35:00 PM	
Lab ID: 2402084-002	Matrix: SOIL Received Date: 2/2/2024 6:30:00 AM					
Analyses	Result	RL Qua	l Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: JKU	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/5/2024 5:50:45 PM	
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/5/2024 5:50:45 PM	
Surr: DNOP	88.1	61.2-134	%Rec	1	2/5/2024 5:50:45 PM	
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst: CCM	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/7/2024 6:15:00 AM	
Surr: BFB	108	15-244	%Rec	1	2/7/2024 6:15:00 AM	
EPA METHOD 8021B: VOLATILES					Analyst: CCM	
Benzene	ND	0.025	mg/Kg	1	2/7/2024 6:15:00 AM	
Toluene	ND	0.049	mg/Kg	1	2/7/2024 6:15:00 AM	
Ethylbenzene	ND	0.049	mg/Kg	1	2/7/2024 6:15:00 AM	
Xylenes, Total	ND	0.099	mg/Kg	1	2/7/2024 6:15:00 AM	
Surr: 4-Bromofluorobenzene	98.0	39.1-146	%Rec	1	2/7/2024 6:15:00 AM	

270

60

mg/Kg

20

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 2 of 31

Analyst: SNS

2/12/2024 4:16:41 PM

**Analytical Report** Lab Order 2402084

2/12/2024 4:29:02 PM

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

<b>CLIENT:</b> HILCORP EN	ERGY	Client Sample ID: FS03					
<b>Project:</b> SJ 29 6 61 M		Collection Date: 1/30/2024 1:40:00 PM					
Lab ID: 2402084-003	Matrix: SOI	L Received Date: 2/2/2024 6:30:00 AM					
Analyses	Result	t <b>RL</b>	Qual Units	DF	Date Analyzed		
EPA METHOD 8015M/D	: DIESEL RANGE ORGANICS				Analyst: <b>JKU</b>		
Diesel Range Organics (DI	RO) N	D 9.3	s mg/Kg	1	2/5/2024 6:02:37 PM		
Motor Oil Range Organics	(MRO) N	D 46	6 mg/Kg	1	2/5/2024 6:02:37 PM		
Surr: DNOP	90.	.2 61.2-134	%Rec	1	2/5/2024 6:02:37 PM		
EPA METHOD 8015D: 0	GASOLINE RANGE				Analyst: CCM		
Gasoline Range Organics	(GRO) N	D 4.9	mg/Kg	1	2/7/2024 6:37:00 AM		
Surr: BFB	10	)5 15-244	%Rec	1	2/7/2024 6:37:00 AM		
EPA METHOD 8021B: V	/OLATILES				Analyst: CCM		
Benzene	Ν	D 0.024	mg/Kg	1	2/7/2024 6:37:00 AM		
Toluene	N	D 0.049	) mg/Kg	1	2/7/2024 6:37:00 AM		
Ethylbenzene	N	D 0.049	) mg/Kg	1	2/7/2024 6:37:00 AM		
Xylenes, Total	N	D 0.097	′ mg/Kg	1	2/7/2024 6:37:00 AM		
Surr: 4-Bromofluorobenz	zene 97.	.0 39.1-146	6 %Rec	1	2/7/2024 6:37:00 AM		
EPA METHOD 300.0: A	NIONS				Analyst: SNS		

330

60

mg/Kg

20

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

**Qualifiers:** 

Chloride

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

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**Project:** 

Lab ID:

SJ 29 6 61 M

2402084-004

**Analytical Report** Lab Order 2402084

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

**Client Sample ID:** FS04 Collection Date: 1/30/2024 1:45:00 PM

Received Date: 2/2/2024 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/6/2024 5:00:44 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/6/2024 5:00:44 PM
Surr: DNOP	101	61.2-134	%Rec	1	2/6/2024 5:00:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/6/2024 9:22:59 PM
Surr: BFB	108	15-244	%Rec	1	2/6/2024 9:22:59 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/6/2024 9:22:59 PM
Toluene	ND	0.050	mg/Kg	1	2/6/2024 9:22:59 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/6/2024 9:22:59 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/6/2024 9:22:59 PM
Surr: 4-Bromofluorobenzene	92.8	39.1-146	%Rec	1	2/6/2024 9:22:59 PM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	340	60	mg/Kg	20	2/12/2024 4:41:22 PM

Matrix: SOIL

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 4 of 31

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

<b>CLIENT:</b> HILCORP ENERGY		Client Sample ID: FS05				
<b>Project:</b> SJ 29 6 61 M	Collection Date: 1/30/2024 1:50:00 PM					
Lab ID: 2402084-005	Matrix: SOIL	Rece	eived Date:	d Date: 2/2/2024 6:30:00 AM		
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/6/2024 6:11:44 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/6/2024 6:11:44 PM	
Surr: DNOP	102	61.2-134	%Rec	1	2/6/2024 6:11:44 PM	
EPA METHOD 8015D: GASOLINE RANG	θE				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/6/2024 10:34:31 PM	
Surr: BFB	109	15-244	%Rec	1	2/6/2024 10:34:31 PM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.025	mg/Kg	1	2/6/2024 10:34:31 PM	
Toluene	ND	0.050	mg/Kg	1	2/6/2024 10:34:31 PM	
Ethylbenzene	ND	0.050	mg/Kg	1	2/6/2024 10:34:31 PM	
Xylenes, Total	ND	0.10	mg/Kg	1	2/6/2024 10:34:31 PM	
Surr: 4-Bromofluorobenzene	93.0	39.1-146	%Rec	1	2/6/2024 10:34:31 PM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	530	60	mg/Kg	20	2/12/2024 5:18:25 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
- Е Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- Р Sample pH Not In Range Reporting Limit

RL

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SJ 29 6 61 M

Project:

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

Client Sample ID: FS06 Collection Date: 1/30/2024 1:55:00 PM Received Date: 2/2/2024 6:30:00 AM

Lab ID: 2402084-006	Matrix: SOIL	Received Date: 2/2/2024 6:30:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/6/2024 6:35:20 PM	
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/6/2024 6:35:20 PM	
Surr: DNOP	97.6	61.2-134	%Rec	1	2/6/2024 6:35:20 PM	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/6/2024 11:45:46 PM	
Surr: BFB	106	15-244	%Rec	1	2/6/2024 11:45:46 PM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.025	mg/Kg	1	2/6/2024 11:45:46 PM	
Toluene	ND	0.049	mg/Kg	1	2/6/2024 11:45:46 PM	
Ethylbenzene	ND	0.049	mg/Kg	1	2/6/2024 11:45:46 PM	
Xylenes, Total	ND	0.099	mg/Kg	1	2/6/2024 11:45:46 PM	
Surr: 4-Bromofluorobenzene	89.5	39.1-146	%Rec	1	2/6/2024 11:45:46 PM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	370	60	mg/Kg	20	2/12/2024 5:55:27 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 31

**Project:** SJ 29 6 61 M

Analytical Report Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402084

Date Reported: 2/15/2024

Client Sample ID: FS07
Collection Date: 2/1/2024 11:00:00 AM
Received Date: 2/2/2024 6:30:00 AM

Lab ID: 2402084-007	Matrix: SOIL	<b>Received Date:</b> 2/2/2024 6:30:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/6/2024 6:58:58 PM	
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/6/2024 6:58:58 PM	
Surr: DNOP	104	61.2-134	%Rec	1	2/6/2024 6:58:58 PM	
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/7/2024 12:09:38 AM	
Surr: BFB	107	15-244	%Rec	1	2/7/2024 12:09:38 AM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.024	mg/Kg	1	2/7/2024 12:09:38 AM	
Toluene	ND	0.047	mg/Kg	1	2/7/2024 12:09:38 AM	
Ethylbenzene	ND	0.047	mg/Kg	1	2/7/2024 12:09:38 AM	
Xylenes, Total	ND	0.095	mg/Kg	1	2/7/2024 12:09:38 AM	
Surr: 4-Bromofluorobenzene	91.1	39.1-146	%Rec	1	2/7/2024 12:09:38 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	180	60	mg/Kg	20	2/12/2024 6:07:47 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

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

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**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402084

Date Reported: 2/15/2024

2/12/2024 6:20:08 PM

<b>CLIENT:</b> HILCORP ENERGY		Client	Sample ID:	FS08	308			
<b>Project:</b> SJ 29 6 61 M		Collection Date: 2/1/2024 11:05:00 AM						
Lab ID: 2402084-008	Matrix: SOIL	Matrix: SOIL Received Date: 2/2/2024 6:30:00 AM						
Analyses	Result	RL Q	ual Units	DF	Date Analyzed			
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH			
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/6/2024 7:22:36 PM			
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/6/2024 7:22:36 PM			
Surr: DNOP	103	61.2-134	%Rec	1	2/6/2024 7:22:36 PM			
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst: JJP			
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/7/2024 12:33:25 AM			
Surr: BFB	114	15-244	%Rec	1	2/7/2024 12:33:25 AM			
EPA METHOD 8021B: VOLATILES					Analyst: JJP			
Benzene	0.091	0.024	mg/Kg	1	2/7/2024 12:33:25 AM			
Toluene	0.43	0.049	mg/Kg	1	2/7/2024 12:33:25 AM			
Ethylbenzene	ND	0.049	mg/Kg	1	2/7/2024 12:33:25 AM			
Xylenes, Total	0.39	0.097	mg/Kg	1	2/7/2024 12:33:25 AM			
Surr: 4-Bromofluorobenzene	94.1	39.1-146	%Rec	1	2/7/2024 12:33:25 AM			
EPA METHOD 300.0: ANIONS					Analyst: SNS			

150

60

mg/Kg

20

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

**Qualifiers:** 

Chloride

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 8 of 31

SJ 29 6 61 M

Project:

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

Client Sample ID: FS09 Collection Date: 2/1/2024 11:10:00 AM **Received Date:** 2/2/2024 6:30:00 AM

Lab ID: 2402084-009	Matrix: SOIL	<b>Received Date:</b> 2/2/2024 6:30:00 AM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/6/2024 7:46:13 PM	
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/6/2024 7:46:13 PM	
Surr: DNOP	107	61.2-134	%Rec	1	2/6/2024 7:46:13 PM	
EPA METHOD 8015D: GASOLINE RANG	<b>E</b>				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/7/2024 12:57:15 AM	
Surr: BFB	113	15-244	%Rec	1	2/7/2024 12:57:15 AM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.025	mg/Kg	1	2/7/2024 12:57:15 AM	
Toluene	ND	0.050	mg/Kg	1	2/7/2024 12:57:15 AM	
Ethylbenzene	ND	0.050	mg/Kg	1	2/7/2024 12:57:15 AM	
Xylenes, Total	ND	0.10	mg/Kg	1	2/7/2024 12:57:15 AM	
Surr: 4-Bromofluorobenzene	93.2	39.1-146	%Rec	1	2/7/2024 12:57:15 AM	
EPA METHOD 300.0: ANIONS					Analyst: SNS	
Chloride	140	60	mg/Kg	20	2/12/2024 6:32:28 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 31

**EPA METHOD 300.0: ANIONS** 

Chloride

**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402084

Date Reported: 2/15/2024

CLIENT: HILCORP ENERGY	Client Sample ID: FS10   Collection Date: 2/1/2024 11:15:00 AM   Matrix: SOIL Received Date: 2/2/2024 6:30:00 AM					
Project: SJ 29 6 61 M Lab ID: 2402084-010						
Analyses	Result	RL Qua		<b>DF</b>	Date Analyzed	
EPA METHOD 8015M/D: DIESEL RANG	GE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/6/2024 8:09:51 PM	
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/6/2024 8:09:51 PM	
Surr: DNOP	107	61.2-134	%Rec	1	2/6/2024 8:09:51 PM	
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst: JJP	
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/7/2024 1:20:57 AM	
Surr: BFB	109	15-244	%Rec	1	2/7/2024 1:20:57 AM	
EPA METHOD 8021B: VOLATILES					Analyst: JJP	
Benzene	ND	0.024	mg/Kg	1	2/7/2024 1:20:57 AM	
Toluene	ND	0.048	mg/Kg	1	2/7/2024 1:20:57 AM	
Ethylbenzene	ND	0.048	mg/Kg	1	2/7/2024 1:20:57 AM	
Xylenes, Total	ND	0.096	mg/Kg	1	2/7/2024 1:20:57 AM	
Surr: 4-Bromofluorobenzene	92.7	39.1-146	%Rec	1	2/7/2024 1:20:57 AM	

170

61

20

mg/Kg

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

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Analyst: SNS

2/12/2024 6:44:48 PM

SJ 29 6 61 M

Project:

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

Client Sample ID: FS11 Collection Date: 2/1/2024 11:20:00 AM **Dessived Deter** 2/2/2024 6:20:00 AM

Lab ID: 2402084-011	Matrix: SOIL	Rece	eived Date:	2/2/20	24 6:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAN	IGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/6/2024 8:57:05 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/6/2024 8:57:05 PM
Surr: DNOP	104	61.2-134	%Rec	1	2/6/2024 8:57:05 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/7/2024 1:44:39 AM
Surr: BFB	105	15-244	%Rec	1	2/7/2024 1:44:39 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/7/2024 1:44:39 AM
Toluene	ND	0.049	mg/Kg	1	2/7/2024 1:44:39 AM
Ethylbenzene	ND	0.049	mg/Kg	1	2/7/2024 1:44:39 AM
Xylenes, Total	ND	0.099	mg/Kg	1	2/7/2024 1:44:39 AM
Surr: 4-Bromofluorobenzene	89.7	39.1-146	%Rec	1	2/7/2024 1:44:39 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	270	60	mg/Kg	20	2/12/2024 6:57:09 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

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 11 of 31

SJ 29 6 61 M

Project:

Analytical Report Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

Client Sample ID: FS12 Collection Date: 2/1/2024 11:25:00 AM Received Date: 2/2/2024 6:30:00 AM

Lab ID: 2402084-012	Matrix: SOIL	ix: SOIL Received Date: 2/2/2024 6:3			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RAM	IGE ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/6/2024 9:20:40 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/6/2024 9:20:40 PM
Surr: DNOP	110	61.2-134	%Rec	1	2/6/2024 9:20:40 PM
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/7/2024 2:08:21 AM
Surr: BFB	114	15-244	%Rec	1	2/7/2024 2:08:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	0.047	0.024	mg/Kg	1	2/7/2024 2:08:21 AM
Toluene	0.24	0.048	mg/Kg	1	2/7/2024 2:08:21 AM
Ethylbenzene	ND	0.048	mg/Kg	1	2/7/2024 2:08:21 AM
Xylenes, Total	0.39	0.096	mg/Kg	1	2/7/2024 2:08:21 AM
Surr: 4-Bromofluorobenzene	93.1	39.1-146	%Rec	1	2/7/2024 2:08:21 AM
EPA METHOD 300.0: ANIONS					Analyst: SNS
Chloride	100	60	mg/Kg	20	2/12/2024 7:09:29 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

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

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**Analytical Report** Lab Order 2402084

2/7/2024 2:32:04 AM

2/13/2024 10:07:44 AM

Analyst: RBC

# Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024 Client Sample ID: FS13

Project:	SJ 29 6 61 M	<b>Collection Date:</b> 2/1/2024 11:30:00 AM							
Lab ID:	2402084-013	Matrix: SOIL	Matrix: SOIL Received Date: 2/2/2024 6:30:00 AM						
Analyses		Result	RL	Qual Units	DF	Date Analyzed			
EPA ME	THOD 8015M/D: DIESEL	RANGE ORGANICS				Analyst: DGH			
Diesel R	ange Organics (DRO)	ND	9.1	mg/Kg	1	2/6/2024 9:44:18 PM			
Motor Oi	il Range Organics (MRO)	ND	46	mg/Kg	1	2/6/2024 9:44:18 PM			
Surr: I	DNOP	110	61.2-134	%Rec	1	2/6/2024 9:44:18 PM			
EPA ME	THOD 8015D: GASOLINE	RANGE				Analyst: JJP			
Gasoline	e Range Organics (GRO)	ND	5.0	mg/Kg	1	2/7/2024 2:32:04 AM			
Surr: I	BFB	107	15-244	%Rec	1	2/7/2024 2:32:04 AM			
EPA ME	THOD 8021B: VOLATILE	S				Analyst: <b>JJP</b>			
Benzene	9	ND	0.025	mg/Kg	1	2/7/2024 2:32:04 AM			
Toluene		ND	0.050	mg/Kg	1	2/7/2024 2:32:04 AM			
Ethylben	izene	ND	0.050	mg/Kg	1	2/7/2024 2:32:04 AM			
Xylenes,	Total	ND	0.10	mg/Kg	1	2/7/2024 2:32:04 AM			

91.4

210

39.1-146

60

%Rec

mg/Kg

1

20

Chloride

Surr: 4-Bromofluorobenzene

**EPA METHOD 300.0: ANIONS** 

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

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**Analytical Report** 

## Hall Environmental Analysis Laboratory, Inc.

Lab Order 2402084

Date Reported: 2/15/2024

2/13/2024 10:20:36 AM

CLIENT: HILCORP ENERGY		Client Sa	mple ID:	FS14			
<b>Project:</b> SJ 29 6 61 M	Collection Date: 2/1/2024 11:35:00 AM						
Lab ID: 2402084-014	Matrix: SOIL	Receiv	ved Date:	2/2/20	024 6:30:00 AM		
Analyses	Result	RL Qua	l Units	DF	Date Analyzed		
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS				Analyst: DGH		
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/6/2024 10:07:51 PM		
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/6/2024 10:07:51 PM		
Surr: DNOP	94.7	61.2-134	%Rec	1	2/6/2024 10:07:51 PM		
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst: JJP		
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/7/2024 3:19:22 AM		
Surr: BFB	107	15-244	%Rec	1	2/7/2024 3:19:22 AM		
EPA METHOD 8021B: VOLATILES					Analyst: JJP		
Benzene	ND	0.025	mg/Kg	1	2/7/2024 3:19:22 AM		
Toluene	ND	0.050	mg/Kg	1	2/7/2024 3:19:22 AM		
Ethylbenzene	ND	0.050	mg/Kg	1	2/7/2024 3:19:22 AM		
Xylenes, Total	ND	0.099	mg/Kg	1	2/7/2024 3:19:22 AM		
Surr: 4-Bromofluorobenzene	90.0	39.1-146	%Rec	1	2/7/2024 3:19:22 AM		
EPA METHOD 300.0: ANIONS					Analyst: RBC		

190

60

mg/Kg

20

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

**Qualifiers:** 

Chloride

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

RL Reporting Limit Page 14 of 31

SJ 29 6 61 M

Project:

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

Client Sample ID: WS01 Collection Date: 1/30/2024 12:00:00 PM Received Date: 2/2/2024 6:30:00 AM

Lab ID: 2402084-015	Matrix: SOIL	Rece	eived Date:	2/2/20	024 6:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/6/2024 10:31:26 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/6/2024 10:31:26 PM
Surr: DNOP	95.3	61.2-134	%Rec	1	2/6/2024 10:31:26 PM
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/7/2024 3:43:00 AM
Surr: BFB	104	15-244	%Rec	1	2/7/2024 3:43:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/7/2024 3:43:00 AM
Toluene	ND	0.050	mg/Kg	1	2/7/2024 3:43:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/7/2024 3:43:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/7/2024 3:43:00 AM
Surr: 4-Bromofluorobenzene	88.6	39.1-146	%Rec	1	2/7/2024 3:43:00 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	2/13/2024 10:33:28 AM

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

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SJ 29 6 61 M

Project:

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

Client Sample ID: WS01A Collection Date: 1/30/2024 12:05:00 PM Received Date: 2/2/2024 6:30:00 AM

Lab ID: 2402084-016	Matrix: SOIL	Rece	eived Date:	2/2/20	024 6:30:00 AM
Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/6/2024 10:55:01 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/6/2024 10:55:01 PM
Surr: DNOP	98.4	61.2-134	%Rec	1	2/6/2024 10:55:01 PM
EPA METHOD 8015D: GASOLINE RANGE	E				Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/7/2024 4:06:38 AM
Surr: BFB	107	15-244	%Rec	1	2/7/2024 4:06:38 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/7/2024 4:06:38 AM
Toluene	ND	0.049	mg/Kg	1	2/7/2024 4:06:38 AM
Ethylbenzene	ND	0.049	mg/Kg	1	2/7/2024 4:06:38 AM
Xylenes, Total	ND	0.099	mg/Kg	1	2/7/2024 4:06:38 AM
Surr: 4-Bromofluorobenzene	91.8	39.1-146	%Rec	1	2/7/2024 4:06:38 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	2/13/2024 10:46:20 AM

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

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**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024 Client Sample ID: WS02 Collection Date: 1/30/2024 12:10:00 PM

<b>Project:</b>	SJ 29 6 61 M	Collection Date: 1/30/2024 12:10:00 PM   Matrix: SOIL Received Date: 2/2/2024 6:30:00 AM					
Lab ID:	2402084-017						
Analyses		Result	RL Qu	al Units	DF	Date Analyzed	
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH	
Diesel R	ange Organics (DRO)	ND	9.8	mg/Kg	1	2/6/2024 11:18:37 PM	
Motor O	il Range Organics (MRO)	ND	49	mg/Kg	1	2/6/2024 11:18:37 PM	
Surr:	DNOP	96.9	61.2-134	%Rec	1	2/6/2024 11:18:37 PM	
EPA ME	THOD 8015D: GASOLINE	RANGE				Analyst: <b>JJP</b>	
Gasoline	e Range Organics (GRO)	ND	4.9	mg/Kg	1	2/7/2024 4:30:17 AM	
Surr:	BFB	105	15-244	%Rec	1	2/7/2024 4:30:17 AM	
EPA ME	THOD 8021B: VOLATILES	;				Analyst: JJP	
Benzene	9	ND	0.024	mg/Kg	1	2/7/2024 4:30:17 AM	
Toluene		ND	0.049	mg/Kg	1	2/7/2024 4:30:17 AM	
Ethylber	izene	ND	0.049	mg/Kg	1	2/7/2024 4:30:17 AM	
Xylenes.	, Total	ND	0.098	mg/Kg	1	2/7/2024 4:30:17 AM	
Surr:	4-Bromofluorobenzene	88.5	39.1-146	%Rec	1	2/7/2024 4:30:17 AM	
EPA ME	THOD 300.0: ANIONS					Analyst: RBC	
Chloride	9	ND	60	mg/Kg	20	2/13/2024 10:59:12 AM	

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
- 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 Reporting Limit
- RL

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Analytical Report Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024 Client Sample ID: WS02A Collection Date: 1/30/2024 12:15:00 PM

Project: SJ 29 6	61 M	Collection Date: 1/30/2024 12:15:00 PM					
Lab ID: 240208	4-018	Matrix: SOIL Received Date: 2/2/2024 6:30:00 AM					
Analyses		Result	RL Q	ual Units	DF	Date Analyzed	
EPA METHOD 80	15M/D: DIESEL RA	NGE ORGANICS				Analyst: DGH	
Diesel Range Orga	nics (DRO)	ND	9.5	mg/Kg	1	2/6/2024 11:42:11 PM	
Motor Oil Range Or	ganics (MRO)	ND	47	mg/Kg	1	2/6/2024 11:42:11 PM	
Surr: DNOP		84.7	61.2-134	%Rec	1	2/6/2024 11:42:11 PM	
EPA METHOD 80	15D: GASOLINE R	ANGE				Analyst: JJP	
Gasoline Range Or	ganics (GRO)	ND	4.9	mg/Kg	1	2/7/2024 4:53:56 AM	
Surr: BFB		107	15-244	%Rec	1	2/7/2024 4:53:56 AM	
EPA METHOD 80	21B: VOLATILES					Analyst: JJP	
Benzene		ND	0.025	mg/Kg	1	2/7/2024 4:53:56 AM	
Toluene		ND	0.049	mg/Kg	1	2/7/2024 4:53:56 AM	
Ethylbenzene		ND	0.049	mg/Kg	1	2/7/2024 4:53:56 AM	
Xylenes, Total		ND	0.098	mg/Kg	1	2/7/2024 4:53:56 AM	
Surr: 4-Bromoflu	orobenzene	91.8	39.1-146	%Rec	1	2/7/2024 4:53:56 AM	
EPA METHOD 30	0.0: ANIONS					Analyst: SNS	
Chloride		ND	60	mg/Kg	20	2/12/2024 8:23:35 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

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

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**Project:** 

Lab ID:

SJ 29 6 61 M

2402084-019

**Analytical Report** Lab Order 2402084

Date Reported: 2/15/2024

# Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: WS03 Collection Date: 1/30/2024 12:20:00 PM

Received Date: 2/2/2024 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/7/2024 12:05:42 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/7/2024 12:05:42 AM
Surr: DNOP	99.4	61.2-134	%Rec	1	2/7/2024 12:05:42 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/7/2024 5:17:36 AM
Surr: BFB	106	15-244	%Rec	1	2/7/2024 5:17:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/7/2024 5:17:36 AM
Toluene	ND	0.048	mg/Kg	1	2/7/2024 5:17:36 AM
Ethylbenzene	ND	0.048	mg/Kg	1	2/7/2024 5:17:36 AM
Xylenes, Total	ND	0.097	mg/Kg	1	2/7/2024 5:17:36 AM
Surr: 4-Bromofluorobenzene	91.5	39.1-146	%Rec	1	2/7/2024 5:17:36 AM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	2/13/2024 11:24:57 AM

Matrix: SOIL

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 19 of 31

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024 Client Sample ID: WS03A Collection Date: 1/30/2024 12:25:00 PM

Project:	SJ 29 6 61 M	Collection Date: 1/30/2024 12:25:00 PM					
Lab ID:	2402084-020	Matrix: SOILReceived Date: 2/2/2024 6:30:00 AM					
Analyses		Result	RL Qu	al Units	DF	Date Analyzed	
EPA ME	THOD 8015M/D: DIESEL F	ANGE ORGANICS				Analyst: DGH	
Diesel R	ange Organics (DRO)	ND	9.5	mg/Kg	1	2/7/2024 12:29:16 AM	
Motor Oi	I Range Organics (MRO)	ND	47	mg/Kg	1	2/7/2024 12:29:16 AM	
Surr: I	DNOP	98.6	61.2-134	%Rec	1	2/7/2024 12:29:16 AM	
EPA ME	THOD 8015D: GASOLINE	RANGE				Analyst: JJP	
Gasoline	Range Organics (GRO)	ND	5.0	mg/Kg	1	2/7/2024 5:41:21 AM	
Surr: I	BFB	105	15-244	%Rec	1	2/7/2024 5:41:21 AM	
EPA ME	THOD 8021B: VOLATILES	i				Analyst: <b>JJP</b>	
Benzene	•	ND	0.025	mg/Kg	1	2/7/2024 5:41:21 AM	
Toluene		ND	0.050	mg/Kg	1	2/7/2024 5:41:21 AM	
Ethylben	zene	ND	0.050	mg/Kg	1	2/7/2024 5:41:21 AM	
Xylenes,	Total	ND	0.099	mg/Kg	1	2/7/2024 5:41:21 AM	
Surr: 4	4-Bromofluorobenzene	91.0	39.1-146	%Rec	1	2/7/2024 5:41:21 AM	
EPA ME	THOD 300.0: ANIONS					Analyst: RBC	
Chloride		ND	60	mg/Kg	20	2/13/2024 11:37:49 AM	

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
- RL Reporting Limit

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**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024 **Client Sample ID: WS04** Collection Date: 1/30/2024 12:30:00 PM

<b>Project:</b>	SJ 29 6 61 M	Collection Date: 1/30/2024 12:30:00 PM					
Lab ID:	2402084-021	Matrix: SOIL	Rece	ived Date:	2/2/20	24 6:30:00 AM	
Analyses		Result	RL Qua	al Units	DF	Date Analyzed	
EPA ME	THOD 8015M/D: DIESEL R	ANGE ORGANICS				Analyst: DGH	
Diesel R	ange Organics (DRO)	ND	9.3	mg/Kg	1	2/7/2024 12:52:47 AM	
Motor Oi	I Range Organics (MRO)	ND	47	mg/Kg	1	2/7/2024 12:52:47 AM	
Surr: [	DNOP	96.9	61.2-134	%Rec	1	2/7/2024 12:52:47 AM	
EPA ME	THOD 8015D: GASOLINE I	RANGE				Analyst: JJP	
Gasoline	Range Organics (GRO)	ND	4.8	mg/Kg	1	2/7/2024 6:05:03 AM	
Surr: E	BFB	106	15-244	%Rec	1	2/7/2024 6:05:03 AM	
EPA ME	THOD 8021B: VOLATILES					Analyst: <b>JJP</b>	
Benzene	1	ND	0.024	mg/Kg	1	2/7/2024 6:05:03 AM	
Toluene		ND	0.048	mg/Kg	1	2/7/2024 6:05:03 AM	
Ethylben	zene	ND	0.048	mg/Kg	1	2/7/2024 6:05:03 AM	
Xylenes,	Total	ND	0.097	mg/Kg	1	2/7/2024 6:05:03 AM	
Surr: 4	1-Bromofluorobenzene	89.8	39.1-146	%Rec	1	2/7/2024 6:05:03 AM	
EPA ME	THOD 300.0: ANIONS					Analyst: RBC	
Chloride		ND	60	mg/Kg	20	2/13/2024 11:18:34 AM	

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

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**CLIENT:** HILCORP ENERGY **Project:** SJ 29 6 61 M

2402084-022

Project: Lab ID: Analytical Report Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

	Client Sample ID: WS04A					
	Collection Date: 1/30/2024 12:35:00 PM					
Matrix: SOIL	<b>Received Date:</b> 2/2/2024 6:30:00 AM					
Result	RL Qual Units DF Date Analy	zed				

Result	RL Qu	al Units	DF	Date Analyzed
GANICS				Analyst: DGH
ND	9.4	mg/Kg	1	2/7/2024 1:16:17 AM
ND	47	mg/Kg	1	2/7/2024 1:16:17 AM
99.7	61.2-134	%Rec	1	2/7/2024 1:16:17 AM
				Analyst: JJP
ND	4.9	mg/Kg	1	2/7/2024 6:28:46 AM
104	15-244	%Rec	1	2/7/2024 6:28:46 AM
				Analyst: JJP
ND	0.024	mg/Kg	1	2/7/2024 6:28:46 AM
ND	0.049	mg/Kg	1	2/7/2024 6:28:46 AM
ND	0.049	mg/Kg	1	2/7/2024 6:28:46 AM
ND	0.097	mg/Kg	1	2/7/2024 6:28:46 AM
89.9	39.1-146	%Rec	1	2/7/2024 6:28:46 AM
				Analyst: RBC
ND	60	mg/Kg	20	2/13/2024 12:04:01 PM
	RGANICS ND 99.7 ND 104 ND ND ND ND ND 89.9	ND 9.4   ND 47   99.7 61.2-134   ND 4.9   104 15-244   ND 0.024   ND 0.049   ND 0.049   ND 0.097   89.9 39.1-146	ND 9.4 mg/Kg   ND 47 mg/Kg   99.7 61.2-134 %Rec   ND 4.9 mg/Kg   104 15-244 %Rec   ND 0.024 mg/Kg   ND 0.049 mg/Kg   ND 0.049 mg/Kg   ND 0.097 mg/Kg   ND 0.097 mg/Kg   89.9 39.1-146 %Rec	ND 9.4 mg/Kg 1   ND 47 mg/Kg 1   99.7 61.2-134 %Rec 1   ND 4.9 mg/Kg 1   ND 4.9 mg/Kg 1   104 15-244 %Rec 1   ND 0.024 mg/Kg 1   ND 0.049 mg/Kg 1   ND 0.049 mg/Kg 1   ND 0.097 mg/Kg 1   89.9 39.1-146 %Rec 1

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

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

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Analytical Report Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

CLIENT: HILCORP ENERGY	Client Sample ID: WS05										
<b>Project:</b> SJ 29 6 61 M		Colle	ction Date:	2/1/20	24 1:30:00 PM						
Lab ID: 2402084-023	Matrix: SOIL	Rece	eived Date:	2/2/20	24 6:30:00 AM						
Analyses	Result	RL Qu	al Units	DF	Date Analyzed						
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH						
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/7/2024 1:39:49 AM						
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/7/2024 1:39:49 AM						
Surr: DNOP	97.0	61.2-134	%Rec	1	2/7/2024 1:39:49 AM						
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: <b>JJP</b>						
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/7/2024 6:52:24 AM						
Surr: BFB	111	15-244	%Rec	1	2/7/2024 6:52:24 AM						
EPA METHOD 8021B: VOLATILES					Analyst: JJP						
Benzene	ND	0.024	mg/Kg	1	2/7/2024 6:52:24 AM						
Toluene	ND	0.049	mg/Kg	1	2/7/2024 6:52:24 AM						
Ethylbenzene	ND	0.049	mg/Kg	1	2/7/2024 6:52:24 AM						
Xylenes, Total	ND	0.097	mg/Kg	1	2/7/2024 6:52:24 AM						
Surr: 4-Bromofluorobenzene	92.2	39.1-146	%Rec	1	2/7/2024 6:52:24 AM						
EPA METHOD 300.0: ANIONS					Analyst: RBC						
Chloride	ND	60	mg/Kg	20	2/13/2024 12:49:30 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

- 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

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**Project:** 

Lab ID:

SJ 29 6 61 M

2402084-024

**Analytical Report** Lab Order 2402084

## Hall Environmental Analysis Laboratory, Inc.

Date Reported: 2/15/2024

Client Sample ID: WS05A Collection Date: 2/1/2024 1:35:00 PM Received Date: 2/2/2024 6:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	2/5/2024 6:05:52 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/5/2024 6:05:52 PM
Surr: DNOP	106	61.2-134	%Rec	1	2/5/2024 6:05:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/7/2024 12:06:38 PM
Surr: BFB	118	15-244	%Rec	1	2/7/2024 12:06:38 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	2/7/2024 12:06:38 PM
Toluene	ND	0.047	mg/Kg	1	2/7/2024 12:06:38 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/7/2024 12:06:38 PM
Xylenes, Total	ND	0.094	mg/Kg	1	2/7/2024 12:06:38 PM
Surr: 4-Bromofluorobenzene	89.7	39.1-146	%Rec	1	2/7/2024 12:06:38 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	2/13/2024 1:04:38 PM

Matrix: SOIL

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 24 of 31

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client: Project:	HILCORI SJ 29 6 6	P ENERGY 1 M											
Sample ID:	MB-80397	SampType: M	BLK	Tes	tCode: EF	A Method	300.0: Anions	;					
Client ID:	PBS	Batch ID: 8	0397	F	RunNo: <b>10</b>	)3044							
Prep Date:	2/12/2024	Analysis Date: 2	/12/2024	S	SeqNo: 38	308985	Units: mg/Kg	g					
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chloride		ND 1.5											
Sample ID:	LCS-80397	SampType: Ic	S	Tes	tCode: EF	A Method	300.0: Anions	5					
Client ID:	LCSS	Batch ID: 80397 RunNo: 103044											
Prep Date:	2/12/2024	Analysis Date: 2	2/12/2024	S	SeqNo: <b>38</b>	308986	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	93.5	90	110						
Sample ID:	MB-80404	SampType: M	BLK	Tes	tCode: EF	A Method	300.0: Anions	3					
Client ID:	PBS	Batch ID: 8	0404	F	RunNo: <b>10</b>	)3075							
Prep Date:	2/12/2024	Analysis Date: 2	2/13/2024	S	SeqNo: 38	310718	Units: mg/K	g					
Analyte		Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Chloride		ND 1.5	i										
Sample ID:	LCS-80404	SampType: L	CS	Tes	tCode: EF	A Method	300.0: Anions						
Client ID:	LCSS	SS Batch ID: 80404 RunNo: 103075											
Prep Date:	2/12/2024	Analysis Date: 2	2/13/2024	S	SeqNo: 38	310719	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	94.6	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

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2402084

15-Feb-24

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:HILCORProject:SJ 29 6 6	P ENERGY 51 M								
Sample ID: LCS-80234	SampType: LCS		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 80234		F	RunNo: 10	)2868				
Prep Date: 2/2/2024	Analysis Date: 2/5/20	024	S	SeqNo: 38	800879	Units: mg/K	9		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40 10	50.00	0	79.6	59.7	135			
Surr: DNOP	4.3	5.000		86.3	61.2	134			
Sample ID: MB-80234	SampType: MBLK	(	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID: PBS	Batch ID: 80234		F	RunNo: <b>10</b>	)2868				
Prep Date: 2/2/2024	Analysis Date: 2/5/20	024	5	SeqNo: 38	301344	Units: mg/K	g		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50	10.00		02.7	64.0	104			
	9.4	10.00		93.7	61.2	134			
Sample ID: MB-80265	SampType: MBLK	ζ.	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID: PBS	Batch ID: 80265		F	RunNo: <b>10</b>	)2881				
Prep Date: 2/5/2024	Analysis Date: 2/5/20	024	5						
Analyte		PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO) Surr: DNOP	ND 50 10	10.00		104	61.2	134			
	10	10.00		104	01.2	134			
Sample ID: LCS-80265	SampType: LCS		Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID: LCSS	Batch ID: 80265		F	RunNo: <b>10</b>	)2881				
Prep Date: 2/5/2024	Analysis Date: 2/5/20	024	S	SeqNo: 38	801658	Units: mg/K	9		
Analyte		PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52 10	50.00	0	103	59.7	135			
Surr: DNOP	4.9	5.000		97.7	61.2	134			
Sample ID: MB-80285	SampType: MBLK	Ĩ	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID: PBS	Batch ID: 80285		F	RunNo: <b>10</b>	)2923				
Prep Date: 2/6/2024	Analysis Date: 2/6/20	024	5	SeqNo: 38	303645	Units: mg/K	g		
Analyte	Result PQL S	PK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50	40.00							
Surr: DNOP	10	10.00		101	61.2	134			

### **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

2402084

15-Feb-24

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	HILCORF	PENERG	Y										
Project:	SJ 29 6 61	Μ											
Sample ID:	LCS-80285	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics			
Client ID:	LCSS	Batch	ID: 802	285	F	RunNo: <b>1(</b>	02923						
Prep Date:	2/6/2024	Analysis D	ate: 2/0	6/2024	5	SeqNo: 38	303646	Units: mg/K	g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Organics (DRO)	52	10	50.00	0	104	59.7	135					
Surr: DNOP		4.7		5.000		93.1	61.2	134					
Sample ID:	2402084-004AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics												
Client ID:	FS04	Batch	ID: 802	285	F	RunNo: <b>1(</b>	02923						
Prep Date:	2/6/2024	Analysis D	ate: 2/0	6/2024	S	SeqNo: 38	303648	Units: mg/K					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Organics (DRO)	52	9.6	48.22	0	108	43.7	136					
Surr: DNOP		4.6		4.822		96.2	61.2	134					
Sample ID:	2402084-004AMSD	SampT	ype: MS	D	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics			
Client ID:	FS04	Batch	ID: 802	285	F	RunNo: <b>1(</b>	02923						
Prep Date:	2/6/2024	Analysis Date: 2/6/2024 SeqNo: 3803649 Units: mg/Kg											
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range C	Organics (DRO)	50	9.0	45.21	0	111	43.7	136	3.76	31.3			
Surr: DNOP		4.4		4.521		98.4	61.2	134	0	0			

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

2402084

15-Feb-24

# **QC SUMMARY REPORT** Hall Environmental Analysis Laboratory, Inc.

Client:HILCORFProject:SJ 29 6 61	P ENERGY I M										
Sample ID: Ics-80264	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 80264	RunNo: 102890									
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802321	Units: <b>mg/Kg</b>								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al							
Gasoline Range Organics (GRO) Surr: BFB	265.025.0022001000	0 106 70 216 15	130 244								
Sample ID: mb-80264	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch ID: 80264	RunNo: 102890									
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802322	Units: <b>mg/Kg</b>								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al							
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1000 1000	104 15	244								
Sample ID: Ics-80229	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 80229	RunNo: 102909									
Prep Date: 2/2/2024	Analysis Date: 2/6/2024	SeqNo: 3802679	Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al							
Gasoline Range Organics (GRO)	24 5.0 25.00	0 97.2 70	130								
Surr: BFB	2200 1000	215 15	244								
Sample ID: mb-80229	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range									
Client ID: PBS	Batch ID: 80229	RunNo: 102909									
Prep Date: 2/2/2024	Analysis Date: 2/6/2024	SeqNo: 3802680	Units: <b>mg/Kg</b>								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al							
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 1100 1000	105 15	244								
Sample ID: 2402084-004ams	SampType: <b>MS</b>	TestCode: EPA Method	8015D: Gasoline Range								
Client ID: FS04	Batch ID: 80264	RunNo: 102890									
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802952	Units: <b>mg/Kg</b>								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al							
Gasoline Range Organics (GRO)	31 5.0 24.88	0 123 70	130								
Surr: BFB	2400 995.0	241 15	244								
Sample ID: 2402084-004amsd	SampType: MSD	TestCode: EPA Method	8015D: Gasoline Range								
Client ID: FS04	Batch ID: 80264	RunNo: 102890									
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802953	Units: mg/Kg								
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qua	al							

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 2402084

15-Feb-24

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

Client:	HILCORF	PENERG	Y											
Project:	SJ 29 6 61	Μ												
Sample ID:	2402084-004amsd	SampT	ype: <b>MS</b>	D	Tes	tCode: E	PA Method	8015D: Gaso	line Range	•				
Client ID:	FS04	Batch	ID: 802	264	F	RunNo: 10	02890							
Prep Date:	2/5/2024	Analysis D	ate: 2/0	6/2024	S	SeqNo: 3	802953	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range	e Organics (GRO)	28	5.0	24.85	0	114	70	130	7.49	20				
Surr: BFB		2300		994.0		230	15	244	0	0				
Sample ID:	Ics-80257 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range													
Client ID:	LCSS	Batch	ID: 802	257	F	RunNo: 10	02936							
Prep Date:	2/5/2024	Analysis D	ate: 2/7	7/2024	S	SeqNo: 3	803969	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range	e Organics (GRO)	27	5.0	25.00	0	107	70	130						
Surr: BFB		2200		1000		216	15	244						
Sample ID:	mb-80257	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Range	•				
Client ID:	PBS	Batch	ID: 802	257	F	RunNo: 10	02936							
Prep Date:	2/5/2024	Analysis D	ate: 2/7	7/2024	S	SeqNo: 3	803970	Units: mg/K	g					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Gasoline Range	e Organics (GRO)	ND	5.0											
Surr: BFB		1100		1000		107	15	244						

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

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2402084

15-Feb-24

**Client:** 

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

HILCORP ENERGY

Project:	SJ 29 6 61	Μ										
Sample ID: LC:	S-80264	SampT	Type: LC:	S	Tes	tCode: EF	A Method	8021B: Volati	les			
Client ID: LC:	SS	Batcl	h ID: 802	64	F	RunNo: <b>10</b>	2890					
Prep Date: 2/	/5/2024	Analysis [	Date: 2/6	6/2024	S	SeqNo: 38	802323	Units: mg/K	g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene		0.82	0.025	1.000	0	81.9	70	130				
Toluene		0.83	0.050	1.000	0	82.9	70	130				
Ethylbenzene		0.84	0.050	1.000	0	83.5	70	130				
Xylenes, Total		2.5	0.10	3.000	0	84.5	70	130				
Surr: 4-Bromofluc	orobenzene	0.91		1.000		90.7	39.1	146				
Sample ID: mb	o-80264	SampT	Гуре: <b>МВ</b>	LK	Tes	tCode: EF	A Method	8021B: Volati	les			
Client ID: PB	S	Batcl	h ID: 802	64	F	RunNo: <b>10</b>	2890					
Prep Date: 2/	/5/2024	Analysis I	Date: 2/6	6/2024	S	SeqNo: <b>38</b>	802324	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-Bromofluc	orobenzene	0.90		1.000		89.8	39.1	146				
Sample ID: 240	02084-005ams	SampT	Гуре: МS		Tes			8021B: Volati	les			
Sample ID: 240 Client ID: FS			Гуре: <b>МS</b> h ID: <b>80</b> 2				A Method		les			
Client ID: FS			h ID: 802	64	F	tCode: EF	PA Method					
Client ID: FS	05	Batcl	h ID: 802	64 6/2024	F	tCode: EF RunNo: 10	PA Method	8021B: Volati		RPDLimit	Qual	
Client ID: FSC Prep Date: 2/ Analyte	05	Batcl Analysis [	h ID: 802 Date: 2/6	64 6/2024	F	tCode: EF RunNo: 10 SeqNo: 38	PA Method 02890 802981	8021B: Volati Units: mg/K	g	RPDLimit	Qual	
Client ID: FSI Prep Date: 2/ Analyte Benzene	05	Batcl Analysis I Result	h ID: 802 Date: 2/6 PQL	264 5/2024 SPK value	F S SPK Ref Val	tCode: EF RunNo: 10 SeqNo: 38 %REC	PA Method 02890 002981 LowLimit	8021B: Volati Units: mg/K HighLimit	g	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene	05	Batcl Analysis I Result 0.97	h ID: <b>802</b> Date: <b>2/6</b> PQL 0.025	2 <b>64</b> 5 <b>/2024</b> SPK value 0.9891	F SPK Ref Val 0	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9	PA Method 02890 802981 LowLimit 70	8021B: Volati Units: mg/K HighLimit 130	g	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene	05	Batch Analysis D Result 0.97 1.0	h ID: 802 Date: 2/6 PQL 0.025 0.049	64 5/2024 SPK value 0.9891 0.9891	F SPK Ref Val 0 0	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101	PA Method 02890 802981 LowLimit 70 70	8021B: Volati Units: mg/K HighLimit 130 130	g	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene	05 /5/2024	Batch Analysis I Result 0.97 1.0 1.0	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049	64 5/2024 SPK value 0.9891 0.9891 0.9891	F SPK Ref Val 0 0 0	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104	24 Method 22890 302981 LowLimit 70 70 70 70	8021B: Volati Units: mg/K HighLimit 130 130 130	g	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc	05 /5/2024	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049	5/2024 SPK value 0.9891 0.9891 0.9891 2.967 0.9891	F SPK Ref Val 0 0 0 0	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 104 93.5	PA Method 22890 302981 LowLimit 70 70 70 70 39.1	8021B: Volati Units: mg/K HighLimit 130 130 130 130	g %RPD	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc	05 /5/2024 orobenzene 02084-005amsd	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92 Samp <sup>1</sup>	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049 0.099	64 5/2024 0.9891 0.9891 0.9891 2.967 0.9891 2.967	F SPK Ref Val 0 0 0 0 0 Tes	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 104 93.5	24 Method 22890 302981 LowLimit 70 70 70 70 39.1 24 Method	8021B: Volati Units: mg/K HighLimit 130 130 130 130 130 146	g %RPD	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID: 240 Client ID: FS(	05 /5/2024 orobenzene 02084-005amsd	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92 Samp <sup>1</sup>	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049 0.099 Type: MS h ID: 802	264 SPK value 0.9891 0.9891 0.9891 2.967 0.9891 D 264	F SPK Ref Val 0 0 0 0 0 Tes F	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 104 93.5 tCode: EF	24 Method 22890 302981 LowLimit 70 70 70 70 39.1 24 Method 22890	8021B: Volati Units: mg/K HighLimit 130 130 130 130 130 146	g %RPD	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID: 240 Client ID: FS(	05 /5/2024 orobenzene 02084-005amsd 05	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92 Samp Batcl Analysis I Result	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049 0.099 Type: MS h ID: 802	264 5/2024 SPK value 0.9891 0.9891 2.967 0.9891 D 264 5/2024	F SPK Ref Val 0 0 0 0 0 Tes F	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 104 93.5 tCode: EF RunNo: 10	24 Method 22890 302981 LowLimit 70 70 70 70 39.1 24 Method 22890	8021B: Volati Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati	g %RPD	RPDLimit	Qual	
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID: 240 Client ID: FS( Prep Date: 2/	05 /5/2024 orobenzene 02084-005amsd 05	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92 Samp Batcl Analysis I	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049 0.099 Type: MS h ID: 802 Date: 2/6	264 5/2024 SPK value 0.9891 0.9891 2.967 0.9891 D 264 5/2024	F SPK Ref Val 0 0 0 0 0 Tes F	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 104 93.5 tCode: EF RunNo: 10 SeqNo: 38	2890 302981 LowLimit 70 70 70 39.1 24 Method 22890 302982	8021B: Volati Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K	g %RPD les g			
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID: 240 Client ID: FS( Prep Date: 2/ Analyte Benzene	05 /5/2024 orobenzene 02084-005amsd 05	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92 Samp Batcl Analysis I Result	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049 0.099 Type: MS h ID: 802 Date: 2/6 PQL	264 SPK value 0.9891 0.9891 0.9891 2.967 0.9891 D 5/2024 SPK value	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 104 93.5 tCode: EF RunNo: 10 SeqNo: 38 %REC	24 Method 22890 302981 LowLimit 70 70 70 39.1 24 Method 2890 302982 LowLimit	8021B: Volati Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit	g %RPD les g %RPD	RPDLimit		
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID: 240 Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene	05 /5/2024 orobenzene 02084-005amsd 05	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92 Samp Batcl Analysis I Result 0.88	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049 0.099 Fype: MS h ID: 802 Date: 2/6 PQL 0.025	264 5/2024 0.9891 0.9891 0.9891 2.967 0.9891 D 5/2024 SPK value 0.9970	F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val 0	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 93.5 tCode: EF RunNo: 10 SeqNo: 38 %REC 88.3	24 Method 22890 302981 LowLimit 70 70 70 39.1 24 Method 22890 302982 LowLimit 70	8021B: Volati Units: mg/K HighLimit 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit 130	g %RPD les g %RPD 9.58	RPDLimit 20		
Client ID: FS( Prep Date: 2/ Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromofluc Sample ID: 240 Client ID: FS( Prep Date: 2/ Analyte	05 /5/2024 orobenzene 02084-005amsd 05	Batcl Analysis I Result 0.97 1.0 1.0 3.1 0.92 Samp <sup>T</sup> Batcl Analysis I Result 0.88 0.91	h ID: 802 Date: 2/6 PQL 0.025 0.049 0.049 0.099 Fype: MS h ID: 802 Date: 2/6 PQL 0.025 0.050	264 5/2024 SPK value 0.9891 0.9891 2.967 0.9891 2.967 0.9891 D 264 SPK value 0.9970 0.9970 0.9970	SPK Ref Val 0 0 0 0 0 Tes SPK Ref Val 0 0	tCode: EF RunNo: 10 SeqNo: 38 %REC 97.9 101 104 93.5 tCode: EF RunNo: 10 SeqNo: 38 %REC 88.3 91.1	PA Method 22890 302981 LowLimit 70 70 70 39.1 PA Method 22890 302982 LowLimit 70 70 70 70 70 70 70 70 70 70	8021B: Volati Units: mg/K HighLimit 130 130 130 130 130 146 8021B: Volati Units: mg/K HighLimit 130 130	g %RPD les g %RPD 9.58 9.97	RPDLimit 20 20		

### 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

2402084

15-Feb-24

# QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

	CORP ENERG 9 6 61 M	Y									
Sample ID: Ics-80229	SampT	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	les			
Client ID: LCSS		h ID: 802			RunNo: 10						
Prep Date: 2/2/2024	Analysis E		-		SeqNo: 38		Units: mg/K	a			
Apolito		PQL					_	-	<b>BDDI</b> imit	Qual	
Analyte Benzene	Result 0.90	0.025	SPK value 1.000	SPK Ref Val	%REC 89.6	LowLimit 70	HighLimit 130	%RPD	RPDLimit	Qual	
Toluene	0.90	0.025	1.000	0	89.9	70	130				
Ethylbenzene	0.91	0.050	1.000	0	91.4	70	130				
Xylenes, Total	2.8	0.10	3.000	0	91.9	70	130				
Surr: 4-Bromofluorobenzene	0.98	0110	1.000	Ū	97.6	39.1	146				
Sample ID: <b>mb-80229</b>		Гуре: <b>МВ</b>					8021B: Volati	les			
Client ID: PBS		h ID: 802			RunNo: <b>10</b>						
Prep Date: 2/2/2024	Analysis E	Date: 2/0	6/2024	5	SeqNo: 38	803026	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: LCS-80257	SampT	Гуре: <b>LC</b> :	S	Tes	tCode: EF	A Method	8021B: Volati	les			
Client ID: LCSS	Batcl	h ID: 802	257	F	RunNo: <b>10</b>	)2936					
Prep Date: 2/5/2024	Analysis D	Date: 2/7	7/2024	S	SeqNo: 38	803972	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	0.88	0.050	1.000	0	88.3	70	130				
Ethylbenzene	0.90	0.050	1.000	0	89.8	70	130				
Xylenes, Total	2.7	0.10	3.000	0	90.7	70	130				
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	39.1	146				
Sample ID: mb-80257	SampT	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	les			
Client ID: PBS	Batch	h ID: 802	257	F	RunNo: <b>10</b>	)2936					
Prep Date: 2/5/2024	Analysis D	Date: 2/7	7/2024	SeqNo: 3803973 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-Bromofluorobenzene	0.89		1.000		89.2	39.1	146				

### 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

2402084

15-Feb-24

Environment Testin TEL: 505-345-397	ronment Testing South Central, LLC 4901 Hawkins NI buquerque, NM 87109 75 FAX: 505-345-4107 hallenvironmental.com	Sam	ple Log-In C	heck List
Client Name: HILCORP ENERGY Work Order Number	er: 2402084	-	RcptNo:	1
Received By: Tracy Casarrubias 2/2/2024 6:30:00 AM	I			
Completed By: Tracy Casarrubias 2/2/2024 7:56:25 AM	I			
Reviewed By: Ju 2/2/24 Extra Samples Checke	20 by \$ 2.2.24			
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 samples?	Yes 🔽	No 🗌	na 🗆	
4. Were all samples received at a temperature 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 test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) properly 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 broken?	Yes	No 🗹	# of preserved	/
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes Aller	No 🗹		>12 unless noted)
12. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what analyses were requested?	Yes 🗹	No 🗌	Charles d huy	1 2/1/1
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🗹	No	Checked by:	M 1424
Special Handling (if applicable)			Extra Scurple	"s In 2/2/24
15. Was client notified of all discrepancies with this order?	Yes	No 🗌	NA 🖌	2/2/24
Person Notified: Christine W. Date:	2/2/24			]
By Whom: Tracy asamubias Via:	eMail Pho	ne 🗌 Fax	In Person	
Regarding: Extra Volume				
Client Instructions: Added Extra Samples tu	LOC per (	client -	TMC 2/2/24	
16. Additional remarks:				
Mailing address and phone number are missing on COC- TM	IC 2/2/24			
17. Cooler Information			1	
Cooler No Temp °C Condition Seal Intact Seal No   1 1.7 Good Yes Morty	Seal Date Si	gned By		

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eceived by OCD: 2/23/2024 1:08:04 PM																			Pag	e 69 of 78	
C	hain	-of-Cu	istody Record	Turn-Arc																NT	
Client:	H	ilcorp		- I⊠ Stan	5day dard	1 □ Rush			-												RY
	Ser.	<u>rcorp</u>	rabert	Project N		+33297997	~~~~					2.75.1786					al.co		~		
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			· .	Project #	<i>*:</i>	γ ψ.		e.			)5-34				Albuquerque, NM 87109 Fax 505-345-4107						
Phone	#·			-					16	a. 50	JJ-52	-3-3:		-	-		uest	_			
		Concept	a. Graberte hilcorp.com	Project N	Mana	aer:	1		Ô					SO4					T		
	Package:			Stuart Hyde - Ensolum				3021	MRC	B's		ŝ					bser				
🛛 Sta	-		□ Level 4 (Full Validation)	5000	114	HYDE - EN	501011	3's (8	DRO / MRO)	PCB's		8270SIMS		PO₄,			nt/A				
Accrea	litation:	🗆 Az Co	ompliance			Carroll		TMB's (8021)	/ DF	Pesticides/8082	504.1)	827		NO <sub>2</sub> ,			rese				
		Other		On Ice:		Ves	No morty		SRO	les/8	504	0 or	sle	3, –		VQ	<u>P</u>	-			
	D (Type) │	<u> </u>		# of Coolers: \ Cooler Temp(including CF): \.7 20 = \.7 (°C)				418	0)09	sticic	thoc	831	Meta	ž.	(A)	-im	iforn				
									801	Pes	(Me	s by	A 8	Б	S	(Se	<u>0</u>				
Date	Time	Matrix	Sample Name	Containe Type and		Preservative Type	HEAL No.	BIEXY-WHBEL	TPH:8015D(GRO	8081	EDB (Method	PAHs by 8310 or	RCRA 8 Metals	CI, F, Br, NO <sub>3</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
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1/1/24	1719	1UN	not Walter	2/2/24 1:30																	

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 9:17:46 AM

Received by OCD: 2/23/2024 1:08:04 PM

eceived	by OCD:	2/23/2024	4 1:08:04 PM																	Pag	e 70 of 78
C	hain	of-Cu	istody Record	Turn-A			e di se									ТВ				NT/	
Client: Hilcorp			Standard □ Rush																		
<u>Samantha</u> Grobert Mailing Address:			Project Name:				ANALYSIS LABORATORY														
Mailing	Address	: 010		SV 29-6 61M			4901 Hawkins NE - Albuquerque, NM 87109														
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email o	r Fax#: ഗ്	anantha	Grobert @ hilcorp.com	Project				÷	Ô					SO4			Ê		-		
QA/QC Package:			Stuart Hyde - Ensolum			TMB's (8021)	D / MR	082 PCB's		8270SIMS	1				Total Coliform (Present/Absent)						
			ompliance	Sample	er:	E. carro	11	¶¶	DR	382	<del>?</del>	3270		03,			esen				
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Date	Time	Matrix	Sample Name	Contai Type a		Preservative Type	HEAL No.	BIEX	TPH:8015D(GRO	8081	EDB (Method 504.1)	PAHs by 8310	RCRA 8 Metals	CI, F, Br, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> ,	8260 (VOA)	8270 (Semi-VOA)	Total	a J			
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Date: 2~l	Time: 1533	L	Mar Anna 3			Date Time 7/1/24 1533	Remarks: CC: Shyde Rensolum.com														
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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

Action 317036

QUESTIONS					
Operator:	OGRID:				
HILCORP ENERGY COMPANY	372171				
1111 Travis Street	Action Number:				
Houston, TX 77002	317036				
	Action Type:				
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)				

### QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2333159777					
Incident Name	NAPP2333159777 SAN JUAN 29-6 UNIT 61M @ 30-039-30985					
Incident Type	Oil Release					
Incident Status	Remediation Closure Report Received					
Incident Well	[30-039-30985] SAN JUAN 29 6 UNIT #061M					

#### Location of Release Source

Please answer all the questions in this group.				
Site Name	San Juan 29-6 Unit 61M			
Date Release Discovered	11/27/2023			
Surface Owner	Private			

### Incident Details

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	No
Has this release endangered or does it have a reasonable probability of endangering public health	No
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	No

#### 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. Cause: Equipment Failure | Valve | Crude Oil | Released: 84 BBL | Recovered: 0 BBL | Lost: Crude Oil Released (bbls) Details 84 BBL Cause: Equipment Failure | Valve | Produced Water | Released: 9 BBL | Recovered: 0 BBL | Produced Water Released (bbls) Details Lost: 9 BBL Is the concentration of chloride in the produced water >10,000 mg/l No Condensate Released (bbls) Details Not answered. 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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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

[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

Action 317036

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**QUESTIONS** (continued) Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number: Houston, TX 77002 317036 Action Type:

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.				
ſ	Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes				
	Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.				
	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	afety 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	True
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	N/A
	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 valuation 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: 02/23/2024

I hereby agree and sign off to the above statement

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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

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Action 317036

QUESTIONS (continued) Operator OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number: Houston, TX 77002 317036 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

#### 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 elease discovery date. What is the shellowest donth to groundwater beneath the group offested by the

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)				
What method was used to determine the depth to ground water	NM OSE iWaters Database Search				
Did this release impact groundwater or surface water	Νο				
What is the minimum distance, between the closest lateral extents of the release an	nd the following surface areas:				
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)				
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)				
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)				
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)				
Any other fresh water well or spring	Between ½ and 1 (mi.)				
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)				
A wetland	Between 300 and 500 (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	None				
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

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date. Requesting a remediation plan approval with this submission Yes Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC. Have the lateral and vertical extents of contamination been fully delineated Yes Was this release entirely contained within a lined containment area No Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.) Chloride (EPA 300.0 or SM4500 CI B) 530 TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M) 0 GRO+DRO (EPA SW-846 Method 8015M) 0 BTEX (EPA SW-846 Method 8021B or 8260B) 0.9 (EPA SW-846 Method 8021B or 8260B) Benzene 0.1 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 NMAC, which includes the anticipated timelines for beginning and completing the remediation. On what estimated date will the remediation commence 01/25/2024 On what date will (or did) the final sampling or liner inspection occur 02/01/2024 On what date will (or was) the remediation complete(d) 02/01/2024 What is the estimated surface area (in square feet) that will be reclaimed 0 What is the estimated volume (in cubic yards) that will be reclaimed 0 What is the estimated surface area (in square feet) that will be remediated 2315 What is the estimated volume (in cubic yards) that will be remediated 1000 These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed. 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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# **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 317036

QUESTI	ONS (continued)
Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171 Action Number: 317036 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
DUESTIONS	
Remediation Plan (continued)	
Please answer all the questions that apply or are indicated. This information must be provided to the	a annonriate district office no later than 90 days after the release discovery date
This remediation will (or is expected to) utilize the following processes to remediate	
(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 LANDFARM #2 [fEEM0112336756]
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	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
o report and/or file certain release notifications and perform corrective actions for relea he 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: 02/23/2024
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in acco significantly deviate from the remediation plan proposed, then it should consult with the division to d	ordance with the physical realities encountered during remediation. If the responsible party has any need to

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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

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Action 317036

QUESTIONS (continued)				
Operator: HILCORP ENERGY COMPANY	OGRID: 372171			
1111 Travis Street Houston, TX 77002	Action Number: 317036			
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)			
	•			

### 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	Νο				

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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 6

Action 317036

QUESTIONS (continued)		
Operator:	OGRID:	
HILCORP ENERGY COMPANY	372171	
1111 Travis Street	Action Number:	
Houston, TX 77002	317036	
	Action Type:	
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)	

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	309653
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/01/2024
What was the (estimated) number of samples that were to be gathered	24
What was the sampling surface area in square feet	1000

**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	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2315
What was the total volume (cubic yards) remediated	1000
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	None
	closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of
	knowledge and understand that pursuant to OCD rules and regulations all operators are required ses 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Stuart Hyde
	Title: Senior Geologist
	Email: shyde@ensolum.com
	Date: 02/23/2024

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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 7

Action 317036

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QUESTIONS (continued)		
Operator: HILCORP ENERGY COMPANY 1111 Travis Street	OGRID: 372171	
1111 Travis Street Houston, TX 77002	Action Number: 317036	
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)	
QUESTIONS		
Declamation Depart		

lamation Report Only answer the questions in this group if all reclamation steps have been completed. Requesting a reclamation approval with this submission No

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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

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CONDITIONS

Action 317036

Operator: OGRID: HILCORP ENERGY COMPANY 372171 1111 Travis Street Action Number: Houston, TX 77002 317036 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

#### CONDITIONS

Created	Condition	Condition
By		Date
nvelez	None	5/2/2024