

June 19, 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 28-6 Unit 114M Rio Arriba County, New Mexico Hilcorp Energy Company NMOCD Incident No: nAPP2317839684

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), has prepared this *Remediation Report and Closure Request* associated with a produced water release at the San Juan 28-6 Unit 114M natural gas production well (Site). The Site is located on surface managed by the Bureau of Land Management (BLM) in Unit J of Section 25, Township 28 North, Range 6 West, in Rio Arriba County, New Mexico (Figure 1).

SITE BACKGROUND

On June 26, 2023, during a routine well-site inspection of the production well (API #: 30-039-26649), located at latitude 36.63046 North and longitude 107.41571 West, a 35 barrel (bbl) produced water release was discovered due to corrosion at the bottom of the production tank. Upon discovery, corrective action was taken to stop the leak and the remaining fluids within the tank were removed. The tank was repaired, coated, and underwent an integrity inspection prior to reentering service. In accordance with Title 19, Chapter 15, Part 29 of the New Mexico Administrative Code (NMAC) Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) and the BLM within 24 hours of discovery and submitted a *Form C-141* to the NMOCD and an *Undesirable Event Form* to the BLM on July 11, 2023. The Site has been assigned NMOCD Incident Number nAPP2317839684.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

An assessment of potential nearby receptors was conducted through desktop reviews of topographic maps, Federal Emergency Management Administration (FEMA) Geographic Information System (GIS) maps, United States Geological Survey (USGS) GIS maps, New Mexico Office of the State Engineer (NMOSE) database, and aerial photographs, as well as Site-specific observations.

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 hydrogeologic

Hilcorp Energy Company Remediation Report and Closure Request San Juan 28-6 Unit 114M

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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.

The Site is at an elevation of approximately 6,605 feet above mean sea level (amsl). Depth to groundwater at the site is estimated to be greater than 100 feet below ground surface (bgs). This estimation is based on the data published on the NMOSE's iWaters Database website. The nearest groundwater well to the Site, SJ-04033-POD1, is located approximately 1.56 miles northwest of, and 55 feet lower than, the Site (Appendix A). Information presented on the NMOSE database indicates depth to groundwater in this well is approximately 234 feet below ground surface (bgs). The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any significant watercourse and/or wetland. The nearest wetland/watercourse is located approximately 715 feet east of the Site. Surface land use surrounding the Site consists primarily of oil and gas development and livestock grazing. No occupied permanent residence or structures, including schools, hospitals, institutions, and/or churches, are located within 300 feet of the Site. The Site is not within the area of a subsurface mine or unstable area and is not within the 100-year floodplain.

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)

BTEX: 50 mg/kg

• TPH as a combination of GRO, diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg

GRO+DRO: 1,000 mg/kgChloride: 20,000 mg/kg

SOIL SAMPLING ACTIVITIES

On June 30, 2023, Hilcorp collected an initial sample, S-1, from the most concentrated point of the release (See Appendix B for pictures of sample location). Analytical results indicated detections of benzene, toluene, ethylbenzene, and total xylenes (BTEX) and total petroleum hydrocarbons as gasoline range organics (TPH-GRO) constituents, but all were below the applicable NMOCD Closure Criteria. Results from this initial sample indicated that there were no impacts to the soil exceeding closure criteria. As such, Hilcorp submitted a request for closure; however, the request was rejected by the NMOCD on January 19, 2024. The NMOCD requested that Hilcorp perform additional vertical and lateral delineation sampling to further confirm that there were no impacts caused by this release.

Based on NMOCD's request, Hilcorp collected additional delineation samples on March 1, 2024, from the four cardinal directions surrounding the release point, S-1 (west), S-2 (north), S-3 (east), and S-4 (south), as shown in Figure 2. Notification to NMOCD was provided at least two business days prior to conducting remediation and sampling work, with correspondence attached in Appendix C. Samples were collected at depths of 0.5 feet bgs, 2 feet bgs, and 4 feet bgs from each sampling point and submitted to Eurofins Environment Testing (Eurofins) in Albuquerque, New Mexico for analysis of TPH following United States Environmental Protection Agency (EPA) Method 8015M/D, BTEX following EPA Method 8021B, and chloride following EPA Method 300.0.



Hilcorp Energy Company Remediation Report and Closure Request San Juan 28-6 Unit 114M

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Laboratory results indicated soil impacts were not present at sample locations S-2, S-3, or S-4; however, soil impacts above the NMOCD Closure Criteria were observed at S-1. Specifically, concentrations of BTEX, TPH, and GRO+DRO were detected in all samples from location S-1. BTEX and GRO+DRO concentrations were above the applicable Closure Criteria in all samples from location S-1. A summary of laboratory analytical results is presented in Table 1, with complete laboratory analytical reports attached as Appendix D.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

Based on the delineation sampling activities described above, Hilcorp excavated soil from the Site to remove impacts resulting from the release and indicated by S-1 sample results. Hilcorp retained Ensolum to perform excavation oversight on May 29, 2024, and included field screening and closure soil sampling activities. The NMOCD and BLM were notified at least two business days prior to commencing on-Site activities (Appendix C). During excavation activities, an Ensolum geologist field screened soil for total volatile organic compounds (VOCs) using a calibrated photoionization detector (PID) and inspected the soil for petroleum hydrocarbon staining and odors to guide excavation and closure sampling.

Once field screening indicated impacted soil had been removed, five-point composite soil samples were collected from the floor (FW-01 and FW-02) and sidewalls (SW-01 through SW-04) of the excavation at a frequency not exceeding one sample per 200 square feet. The five-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 placed into laboratory provided containers and transported under proper chain of custody procedures to Eurofins for analysis of TPH, BTEX, and chloride by the same methods described above. Sample locations are shown in Figure 2.

Analytical results from the excavation indicated concentrations of all COCs were compliant with NMOCD Table I Closure Criteria, as well as the reclamation requirement in all confirmation samples. In total, approximately 96 cubic yards of soil were excavated. Soil sample results are summarized in Table 1, with complete laboratory analytical reports attached as Appendix D. Photographs taken during field activities are attached as Appendix B.

CLOSURE REQUEST

Excavation and sampling activities were conducted at the Site to address the release of produced water discovered on June 26, 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 the reclamation requirement. As such, 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. Hilcorp respectfully requests closure for Incident Number nAPP2317839684.



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

Sincerely, **Ensolum**, **LLC**

Sidney Mahanay Project Geologist (979) 877-8887

smahanay@ensolum.com

Stuart Hyde Senior Managing Geologist (970) 903-1607 shyde@ensolum.com

Attachments:

Figure 1 Site Location Map

Figure 2 Excavation Soil Sample Locations

Table 1 Soil Sample Analytical Results

Appendix A: NMOSE Point of Diversion Summary

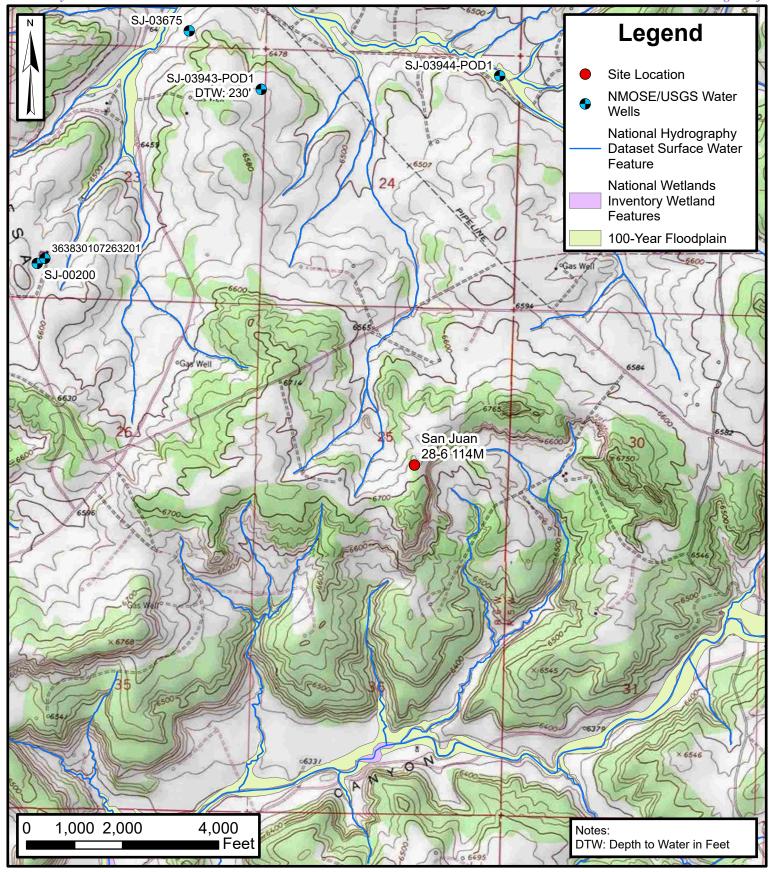
Appendix B: Photographic Log

Appendix C: Agency Correspondence Appendix D: Laboratory Analytical Reports





FIGURES

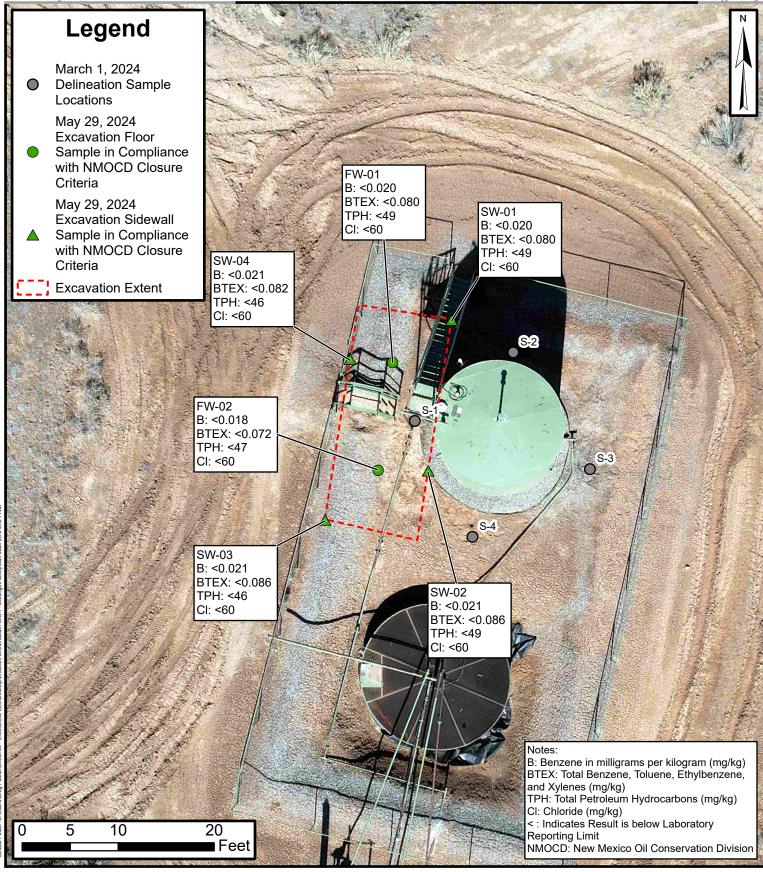




Site Location Map

San Juan 28-6 Unit 114M Hilcorp Energy Company Unit J of Section 25, T28N, R6W 36.63046, -107.41571 Rio Arriba County, New Mexico **FIGURE**

1





Excavation Soil Sample Locations

San Juan 28-6 Unit 114M Hilcorp Energy Company Unit J of Section 25, T28N, R6W

36.63046, -107.41571 Rio Arriba County, New Mexico FIGURE 2

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TABLES



TABLE 1 **SOIL SAMPLE ANALYTICAL RESULTS** San Juan 28-6 Unit 114M **Hilcorp Energy Company** Rio Arriba County, New Mexico Sample Depth PID Benzene Toluene Ethylbenzene **Xylenes Total BTEX** GRO DRO DRO + GRO MRO **Total TPH** Chloride Date Identification (feet bgs) (ppm) (mg/kg) NMOCD Closure Criteria for Soils Impacted by a NE 10 NE NE NE 50 NE NE 1,000 NE 2,500 20,000 Release June 2023 Initial Sampling S-1 6/30/2023 0 - 0.5 0.19 0.82 0.096 1.0 2.106 14 < 8.9 14 < 44 14 < 60 March 2024 Delineation Samples S-1 3/1/2024 0 - 0.5 1.3 30 8.5 170 209.8 1,700 1,700 3,400 410 3,810 < 60 S-1 77 3/1/2024 2 2.8 20 280 379.8 2,900 1,200 4,100 200 4,300 < 60 S-1 3/1/2024 4 1.6 31 5.7 160 198.3 1,800 440 71 2,311 < 60 2,240 S-2 3/1/2024 0 - 0.5 < 0.024 < 0.049 < 0.049 < 0.098 < 0.098 < 4.9 < 9.3 < 9.3 < 46 < 46 < 60 S-2 3/1/2024 2 < 0.024 < 0.048 < 0.048 < 0.096 < 0.096 < 4.8 < 8.9 < 8.9 < 45 < 45 65 S-2 3/1/2024 4 < 0.024 < 0.047 < 0.047 < 0.094 < 0.094 < 4.7 < 9.2 < 9.2 < 46 < 46 < 60 0 - 0.5 < 0.046 S-3 3/1/2024 < 0.023 < 0.046 < 0.091 < 0.091 < 4.6 < 9.6 < 48 < 48 < 60 < 9.6 < 0.049 S-3 3/1/2024 2 < 0.024 < 0.049 < 0.097 < 0.097 < 4.9 160 160 68 228 < 60 -S-3 3/1/2024 4 < 0.024 < 0.048 < 0.048 < 0.095 < 0.095 < 4.8 < 45 < 45 -< 9.0 < 9.0 < 60 S-4 3/1/2024 0 - 0.5< 0.023 < 0.046 < 0.046 < 0.091 < 0.091 < 4.6 < 9.2 < 9.2 < 46 < 46 < 60 S-4 3/1/2024 < 0.024 < 0.048 < 0.048 < 0.096 < 0.096 < 4.8 < 9.5 < 9.5 < 48 < 48 2 < 60 S-4 3/1/2024 < 0.023 < 0.046 < 0.046 < 0.092 < 4.6 < 9.5 < 9.5 < 47 < 60 May 2024 Excavation Confirmation Samples SW-01 5/29/2024 0 - 11 96 < 0.020 < 0.040 < 0.040 < 0.080 < 0.080 < 4.0 < 9.8 < 9.8 < 49 < 49 < 60 SW-02 5/29/2024 0 - 11 12 < 0.021 < 0.043 < 0.043 < 0.086 < 0.086 < 4.3 < 9.9 < 9.9 < 49 < 49 < 60 5/29/2024 < 0.043 < 0.086 < 4.3 SW-03 0 - 11 58 < 0.021 < 0.043 < 0.086 < 9.2 < 9.2 < 46 < 46 < 60 SW-04 5/29/2024 0 - 11 63 < 0.021 < 0.041 < 0.041 < 0.082 < 0.082 < 4.1 < 9.1 < 46 < 46 < 9.1 < 60 FW-01 5/29/2024 11 36 < 0.020 < 0.040 < 0.040 < 0.080 < 0.080 < 4.0 < 9.9 < 9.9 < 49 < 49 < 60 FW-02 5/29/2024 11 27 < 0.018 < 0.036 < 0.036 < 0.072 < 0.072 < 3.6 < 9.4 < 9.4 < 47 < 47 < 60

Notes:

bgs: Below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: Milligrams per kilogram

NE: Not Established

ppm: Parts per million

NMOCD: New Mexico Oil Conservation Division

PID: Photoionization detector

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

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

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



APPENDIX A

NMOSE Point of Diversion Summary

PAGE 1 OF 2



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APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

Hilcorp Energy Company San Juan 28-6 114M Rio Arriba County, New Mexico



Photograph: 1 Date: 6/26/2023

Description: Initial S-1 sample location (most concentrated point of release)

View: Bottom of BGT, East



Photograph: 2 Date: 6/26/2023

Description: Initial S-1 sample location (most concentrated point of release)

View: Bottom of BGT, East



Photograph: 3 Date: 5/29/2024

Description: Excavation relative to infrastructure

View: Southwest



Photograph: 4 Date: 5/29/2024

Description: Excavation depth

View: South





Photograph: 5

Date: 5/29/2024 Description: Adjacent Tank

View: Southwest

Photograph: 6

Description: East sidewall

View: West

Date: 5/29/2024

Date: 5/29/2024





Photograph: 7

Date: 5/29/2024

Description: Excavation activities

View: West

Photograph: 8

Description: Excavation activities and stockpile

View: Northwest



APPENDIX C

Agency Correspondence

From: OCDOnline@state.nm.us

To: Samantha Grabert

Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 317463

Date: Monday, February 26, 2024 1:01:40 PM

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

To whom it may concern (c/o Samantha Grabert for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2317839684.

The sampling event is expected to take place:

When: 03/01/2024 @ 10:00

Where: J-25-28N-06W 1975 FSL 1975 FEL (36.6303978,-107.416214)

Additional Information: Brandon Sinclair: 505-386-8996

Additional Instructions: Lat: 36.63046, Long: -107.41571

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: <u>Stuart Hyde</u>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 347739

Date: Friday, May 24, 2024 10:25:37 AM

[**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#) nAPP2317839684.

The sampling event is expected to take place:

When: 05/29/2024 @ 09:00

Where: J-25-28N-06W 1975 FSL 1975 FEL (36.6303978,-107.416214)

Additional Information: Contact PM: Sidney Mahanay - 979-877-8887

Additional Instructions: Hilcorp San Juan 28-6 Unit 114M Well Pad, Site Coordinates

36.63046, -107.41571

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: Samantha Grabert

Subject: Re: [EXTERNAL] nAPP2317839684 -San Juan 28-6 Unit 114M Reporting Extension Request

Date: Thursday, April 18, 2024 9:12:41 AM

Attachments: Outlook-jsjtikl2.png

CAUTION: External sender. DO NOT open links or attachments from UNKNOWN senders.

Good morning Samantha,

Your 45-day time extension request is approved. Remediation Due date has been updated to June 3, 2024.

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: Samantha Grabert <Samantha.Grabert@hilcorp.com>

Sent: Wednesday, April 17, 2024 9:41 AM

To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>

Subject: [EXTERNAL] nAPP2317839684 -San Juan 28-6 Unit 114M Reporting Extension Request

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

Good Morning Nelson,

As requested & previously discussed, we collected additional samples at the San Juan 28-6 Unit 114M site (Incident # nAPP2317839684); however, one of the sample locations came back elevated. As such, we are in the process of delineating vertically and excavating impacted material. Weather and road conditions caused a delay in this work, but we anticipate wrapping it up soon. As such, I would like to request a 45-day extension to the reporting deadline to complete this effort. Please let me know if you have any questions or require additional information and thank you again for your assistance with this matter.

Thanks,

Samantha Grabert



713-757-7116 (Office) 337-781-9630 (Mobile)

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From: <u>Velez, Nelson, EMNRD</u>

To: Stuart Hyde

Cc: Samantha Grabert; Sidney Mahanay

Subject: Re: [EXTERNAL] NAPP2317839684 SAN JUAN 28-6 UNIT 114M - Reporting Extension Request

Date: Friday, May 31, 2024 2:22:34 PM

Attachments: imaqe001.pnq imaqe002.pnq

image003.png Outlook-kbuvbzrm.png

[**EXTERNAL EMAIL**]

Stuart,

Your 30-day time extension request is approved. Remediation Due date has been updated to July 3, 2024.

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: Friday, May 31, 2024 1:30 PM

To: Velez, Nelson, EMNRD < Nelson. Velez@emnrd.nm.gov>

Cc: Samantha Grabert <Samantha.Grabert@hilcorp.com>; Sidney Mahanay

<smahanay@ensolum.com>

Subject: [EXTERNAL] NAPP2317839684 SAN JUAN 28-6 UNIT 114M - Reporting Extension Request

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

Nelson,

On behalf of Hilcorp Energy Company, Ensolum is requesting an extension to the June 3, 2024

reporting deadline for the San Juan 28-6 Unit 114M site located in Rio Arriba County (coordinates 36.63046, -107.41571). At this time, Hilcorp has completed the excavation and we just received analytical results indicating that the sidewalls and floor are all clean and ready to close. We are requesting a 30-day extension in order to complete the closure report for the site. If approved, the new deadline would be Wednesday July 3, 2024. Please reach out with any questions or comments. Thanks and have a great weekend.



Stuart Hyde, PG

(Licensed in WA/TX)
Senior Managing Geologist
970-903-1607
Ensolum, LLC
in f X

"If you want to go fast, go alone. If you want to go far, go together." - African Proverb



APPENDIX D

Laboratory Analytical Reports



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 10, 2023

Samantha Grabert HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: SJ 28 6 114M OrderNo.: 2307003

Dear Samantha Grabert:

Hall Environmental Analysis Laboratory received 1 sample(s) on 7/1/2023 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 don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

Analytical Report

Lab Order **2307003**Date Reported: **7/10/2023**

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: S-1

 Project:
 SJ 28 6 114M
 Collection Date: 6/30/2023 2:20:00 PM

 Lab ID:
 2307003-001
 Matrix: SOIL
 Received Date: 7/1/2023 8:10:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	7/5/2023 5:49:10 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	7/5/2023 5:49:10 PM
Surr: DNOP	86.8	69-147	%Rec	1	7/5/2023 5:49:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: KMN
Gasoline Range Organics (GRO)	14	4.9	mg/Kg	1	7/5/2023 6:49:00 PM
Surr: BFB	176	15-244	%Rec	1	7/5/2023 6:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	0.19	0.024	mg/Kg	1	7/5/2023 6:49:00 PM
Toluene	0.82	0.049	mg/Kg	1	7/5/2023 6:49:00 PM
Ethylbenzene	0.096	0.049	mg/Kg	1	7/5/2023 6:49:00 PM
Xylenes, Total	1.0	0.098	mg/Kg	1	7/5/2023 6:49:00 PM
Surr: 4-Bromofluorobenzene	108	39.1-146	%Rec	1	7/5/2023 6:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	ND	60	mg/Kg	20	7/7/2023 2:00:27 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

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307003**

10-Jul-23

Client: HILCORP ENERGY

Project: SJ 28 6 114M

Sample ID: MB-76052 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 76052 RunNo: 98004

Prep Date: 7/7/2023 Analysis Date: 7/7/2023 SeqNo: 3566373 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-76052 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 76052 RunNo: 98004

Prep Date: 7/7/2023 Analysis Date: 7/7/2023 SeqNo: 3566374 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.3 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

2307003 10-Jul-23

WO#:

Client: HILCORP ENERGY

Project: SJ 28 6 114M

Project: SJ 28 6 11	.4IVI									
Sample ID: LCS-75974	SampTy	pe: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch	ID: 75 9	974	F	RunNo: 97	7944				
Prep Date: 7/3/2023	Analysis Da	ate: 7/	5/2023	9	SeqNo: 3	563566	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.2	61.9	130			
Surr: DNOP	4.8		5.000		95.0	69	147			
Sample ID: MB-75974	SampTy	pe: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	ID: 75 9	974	F	RunNo: 97	7944				
Prep Date: 7/3/2023	Analysis Da	ate: 7/	5/2023	8	SeqNo: 3	563568	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.6	69	147			
Sample ID: 2307003-001AMS	SampTy	pe: MS	5	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: S-1	Batch	ID: 75 9	974	F	RunNo: 97	7944				
Prep Date: 7/3/2023	Analysis Da	ate: 7/	5/2023	\$	SeqNo: 3	563600	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	33	8.4	42.19	0	78.0	54.2	135			
Surr: DNOP	3.3		4.219		79.3	69	147			
Sample ID: 2307003-001AMSD	SampTy	ре: М S	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: S-1	Batch	ID: 75 9	974	F	RunNo: 97	7944				
Prep Date: 7/3/2023	Analysis Da	ate: 7/	5/2023	5	SeqNo: 3	563601	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

0

94.5

92.2

54.2

69

135

147

31.2

0

29.2

0

R

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

Diesel Range Organics (DRO)

Surr: DNOP

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

45

4.4

9.5

47.66

4.766

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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 2307003

10-Jul-23

Client: HILCORP ENERGY

Project: SJ 28 6 114M

Sample ID: mb-75968 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range PBS Client ID: Batch ID: 75968 RunNo: 97913 Prep Date: 7/3/2023 Analysis Date: 7/5/2023 SeqNo: 3563344 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 980 1000 98.2 15 244

Sample ID: Ics-75968 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 75968 RunNo: 97913

Prep Date: Analysis Date: 7/5/2023 SeqNo: 3563500 7/3/2023 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 21 25.00 85.4 70 Surr: BFB 2000 1000 202 15 244

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2307003**

10-Jul-23

Client: HILCORP ENERGY

Project: SJ 28 6 114M

Sample ID: mb-75968	Samp	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	: PBS Batch ID: 75968 RunNo: 97913										
Prep Date: 7/3/2023	Analysis [Date: 7/	5/2023	(SeqNo: 3	563412	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	0.93		1.000		92.8	39.1	146				

Sample ID: Ics-75968 SampType: LCS TestCode: EPA Method 8021B: Volatiles										
Client ID: LCSS	Batc	h ID: 75 9	968	F	RunNo: 97	7913				
Prep Date: 7/3/2023	Analysis [Date: 7/ 9	5/2023	(SeqNo: 3	563501	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.2	70	130			
Toluene	0.86	0.050	1.000	0	86.0	70	130			
Ethylbenzene	0.87	0.050	1.000	0	87.2	70	130			
Xylenes, Total	2.6	0.10	3.000	0	86.9	70	130			
Surr: 4-Bromofluorobenzene	0.95		1.000		94.5	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 5

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 8/9/2024 2:03:20 PM

11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) # of preserved bottles checked for pH: (<2 or >12 unless noted Adjusted? Yes ✓ No ☐ Checked by Check	Client Name: HILCORP ENERGY	Work Order Number	r: 2307003		RcptNo: 1	
Chain of Custody	Received By: Cheyenne Cason	7/1/2023 8:10:00 AM		Chul		
Chain of Custody 1. Is Chain of Custody complete? 2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/a> 4. Were all samples (except VOA and ONG) properly preserved? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/a> 7. Yes No No No NA 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/a> 8. No No No NA 9. Received at least 1 vial with headspace <1/a> 9. Received at least 1 vial with headspace <1/a> 9. Received at least 1 vial with headspace <1/a> 9. No No No NA 9. Received at least 1 vial with headspace <1/a> 9. No No No NA 9. Received at least 1 vial with headspace <1/a> 9. No No No NA 9. No No NA 9. No No NA 9. No No NA 9. No NA 9	Completed By: Cheyenne Cason	7/1/2023 8:31:48 AM		Chul		
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2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? 6. Sufficient sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp *C Condition Seal Intact Seal No Seal Date Signed By	Chain of Custody		_		r	
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By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By		n this order?	Yes 🗌	No 🗌	NA 🗹	
Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By	Person Notified:	Date:				
Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By	By Whom:	Via:	eMail	Phone Fax	☐ In Person	
16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By						
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		Seal Intact Seal No	Seal Date	Signed By		
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С	Chain-of-Custody Record			Turn-Around Time:						Н	ΑL	L	ΕN	1V	IR	OI	NM	EN.	ΓΑΙ	_
Client:	Hile			☑ Standard	□ Rush	11 10 500											OR			
	UIIC	orp		Project Name		E-0 10										al.co				
Moiling	Address			-		1117.11	4901 Hawkins NE - Albuquerque, NM 87109													
Mailing	Address			Project #:	8 6	11920														
				- I TOJECL #.			Tel. 505-345-3975 Fax 505-345-4107 Analysis Request										13.01			
Phone:				9.00,00										313 .	.090			algen-		
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			35.		mid Arthur		BTEX) MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	O)F, Br, NO3, NO2, PO4, SO4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)	6		1 1	
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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

March 13, 2024

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

FAX

RE: SJ 28 6 Unit 114M OrderNo.: 2403057

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 12 sample(s) on 3/2/2024 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 Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/13/2024

CLIENT: HILCORP ENERGY Client Sample ID: S-1 0-6"

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 10:30:00 AM

 Lab ID:
 2403057-001
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JKU
Diesel Range Organics (DRO)	1700	19	mg/Kg	2	3/6/2024 2:05:58 PM
Motor Oil Range Organics (MRO)	410	94	mg/Kg	2	3/6/2024 2:05:58 PM
Surr: DNOP	98.2	61.2-134	%Rec	2	3/6/2024 2:05:58 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	1700	240	mg/Kg	50	3/5/2024 6:57:09 PM
Surr: BFB	210	15-244	%Rec	50	3/5/2024 6:57:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	1.3	1.2	mg/Kg	50	3/5/2024 6:57:09 PM
Toluene	30	2.4	mg/Kg	50	3/5/2024 6:57:09 PM
Ethylbenzene	8.5	2.4	mg/Kg	50	3/5/2024 6:57:09 PM
Xylenes, Total	170	4.7	mg/Kg	50	3/5/2024 6:57:09 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	50	3/5/2024 6:57:09 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/6/2024 4:34:02 AM

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/13/2024

CLIENT: HILCORP ENERGY Client Sample ID: S-1 2'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 10:40:00 AM

 Lab ID:
 2403057-002
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: JKU
Diesel Range Organics (DRO)	1200	18		mg/Kg	2	3/6/2024 3:17:16 PM
Motor Oil Range Organics (MRO)	200	92		mg/Kg	2	3/6/2024 3:17:16 PM
Surr: DNOP	101	61.2-134		%Rec	2	3/6/2024 3:17:16 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	2900	250		mg/Kg	50	3/5/2024 7:20:47 PM
Surr: BFB	265	15-244	S	%Rec	50	3/5/2024 7:20:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	2.8	1.2		mg/Kg	50	3/5/2024 7:20:47 PM
Toluene	77	2.5		mg/Kg	50	3/5/2024 7:20:47 PM
Ethylbenzene	20	2.5		mg/Kg	50	3/5/2024 7:20:47 PM
Xylenes, Total	280	5.0		mg/Kg	50	3/5/2024 7:20:47 PM
Surr: 4-Bromofluorobenzene	106	39.1-146		%Rec	50	3/5/2024 7:20:47 PM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	3/6/2024 5:11:03 AM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-1 4'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 10:55:00 AM

 Lab ID:
 2403057-003
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JKU
Diesel Range Organics (DRO)	440	9.0	mg/Kg	1	3/6/2024 3:41:02 PM
Motor Oil Range Organics (MRO)	71	45	mg/Kg	1	3/6/2024 3:41:02 PM
Surr: DNOP	111	61.2-134	%Rec	1	3/6/2024 3:41:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	1800	240	mg/Kg	50	3/5/2024 7:44:19 PM
Surr: BFB	227	15-244	%Rec	50	3/5/2024 7:44:19 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	1.6	1.2	mg/Kg	50	3/5/2024 7:44:19 PM
Toluene	31	2.4	mg/Kg	50	3/5/2024 7:44:19 PM
Ethylbenzene	5.7	2.4	mg/Kg	50	3/5/2024 7:44:19 PM
Xylenes, Total	160	4.8	mg/Kg	50	3/5/2024 7:44:19 PM
Surr: 4-Bromofluorobenzene	102	39.1-146	%Rec	50	3/5/2024 7:44:19 PM
EPA METHOD 300.0: ANIONS					Analyst: RBC
Chloride	ND	60	mg/Kg	20	3/6/2024 5:23:24 AM

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/13/2024

CLIENT: HILCORP ENERGY Client Sample ID: S-2 0-6"

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 11:05:00 AM

 Lab ID:
 2403057-004
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: JKU	
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/6/2024 4:04:51 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/6/2024 4:04:51 PM
Surr: DNOP	95.6	61.2-134	%Rec	1	3/6/2024 4:04:51 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/5/2024 8:07:53 PM
Surr: BFB	100	15-244	%Rec	1	3/5/2024 8:07:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/5/2024 8:07:53 PM
Toluene	ND	0.049	mg/Kg	1	3/5/2024 8:07:53 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/5/2024 8:07:53 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/5/2024 8:07:53 PM
Surr: 4-Bromofluorobenzene	91.7	39.1-146	%Rec	1	3/5/2024 8:07:53 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 2:23:01 PM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-2 2'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 11:15:00 AM

 Lab ID:
 2403057-005
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/5/2024 7:44:06 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/5/2024 7:44:06 PM
Surr: DNOP	132	61.2-134	%Rec	1	3/5/2024 7:44:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/5/2024 9:19:07 PM
Surr: BFB	101	15-244	%Rec	1	3/5/2024 9:19:07 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/5/2024 9:19:07 PM
Toluene	ND	0.048	mg/Kg	1	3/5/2024 9:19:07 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/5/2024 9:19:07 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/5/2024 9:19:07 PM
Surr: 4-Bromofluorobenzene	94.2	39.1-146	%Rec	1	3/5/2024 9:19:07 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	65	60	mg/Kg	20	3/7/2024 3:00:03 PM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-2 4'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 11:30:00 AM

 Lab ID:
 2403057-006
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/5/2024 8:08:41 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/5/2024 8:08:41 PM
Surr: DNOP	104	61.2-134	%Rec	1	3/5/2024 8:08:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/5/2024 10:06:45 PM
Surr: BFB	101	15-244	%Rec	1	3/5/2024 10:06:45 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/5/2024 10:06:45 PM
Toluene	ND	0.047	mg/Kg	1	3/5/2024 10:06:45 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/5/2024 10:06:45 PM
Xylenes, Total	ND	0.094	mg/Kg	1	3/5/2024 10:06:45 PM
Surr: 4-Bromofluorobenzene	95.3	39.1-146	%Rec	1	3/5/2024 10:06:45 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 3:12:23 PM

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

- 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

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 3/13/2024

CLIENT: HILCORP ENERGY Client Sample ID: S-3 0-6"

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 11:40:00 AM

 Lab ID:
 2403057-007
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	3/5/2024 8:21:05 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/5/2024 8:21:05 PM
Surr: DNOP	94.8	61.2-134	%Rec	1	3/5/2024 8:21:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/5/2024 10:30:31 PM
Surr: BFB	101	15-244	%Rec	1	3/5/2024 10:30:31 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	3/5/2024 10:30:31 PM
Toluene	ND	0.046	mg/Kg	1	3/5/2024 10:30:31 PM
Ethylbenzene	ND	0.046	mg/Kg	1	3/5/2024 10:30:31 PM
Xylenes, Total	ND	0.091	mg/Kg	1	3/5/2024 10:30:31 PM
Surr: 4-Bromofluorobenzene	95.0	39.1-146	%Rec	1	3/5/2024 10:30:31 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 3:24:45 PM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-3 2'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 11:50:00 AM

 Lab ID:
 2403057-008
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JKU
Diesel Range Organics (DRO)	160	9.5	mg/Kg	1	3/5/2024 8:33:21 PM
Motor Oil Range Organics (MRO)	68	47	mg/Kg	1	3/5/2024 8:33:21 PM
Surr: DNOP	110	61.2-134	%Rec	1	3/5/2024 8:33:21 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/5/2024 11:18:03 PM
Surr: BFB	105	15-244	%Rec	1	3/5/2024 11:18:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/5/2024 11:18:03 PM
Toluene	ND	0.049	mg/Kg	1	3/5/2024 11:18:03 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/5/2024 11:18:03 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/5/2024 11:18:03 PM
Surr: 4-Bromofluorobenzene	99.9	39.1-146	%Rec	1	3/5/2024 11:18:03 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 4:01:46 PM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-3 4'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 12:10:00 PM

 Lab ID:
 2403057-009
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/5/2024 8:45:44 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/5/2024 8:45:44 PM
Surr: DNOP	97.0	61.2-134	%Rec	1	3/5/2024 8:45:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/5/2024 11:41:48 PM
Surr: BFB	100	15-244	%Rec	1	3/5/2024 11:41:48 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/5/2024 11:41:48 PM
Toluene	ND	0.048	mg/Kg	1	3/5/2024 11:41:48 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/5/2024 11:41:48 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/5/2024 11:41:48 PM
Surr: 4-Bromofluorobenzene	93.8	39.1-146	%Rec	1	3/5/2024 11:41:48 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 4:14:07 PM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-4 0-6"

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 12:15:00 PM

 Lab ID:
 2403057-010
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/5/2024 8:58:00 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/5/2024 8:58:00 PM
Surr: DNOP	101	61.2-134	%Rec	1	3/5/2024 8:58:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/6/2024 12:05:30 AM
Surr: BFB	97.4	15-244	%Rec	1	3/6/2024 12:05:30 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	3/6/2024 12:05:30 AM
Toluene	ND	0.046	mg/Kg	1	3/6/2024 12:05:30 AM
Ethylbenzene	ND	0.046	mg/Kg	1	3/6/2024 12:05:30 AM
Xylenes, Total	ND	0.091	mg/Kg	1	3/6/2024 12:05:30 AM
Surr: 4-Bromofluorobenzene	92.1	39.1-146	%Rec	1	3/6/2024 12:05:30 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 4:26:27 PM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: S-4 2'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 12:25:00 PM

 Lab ID:
 2403057-011
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/5/2024 9:10:14 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/5/2024 9:10:14 PM
Surr: DNOP	103	61.2-134	%Rec	1	3/5/2024 9:10:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/6/2024 12:29:12 AM
Surr: BFB	99.0	15-244	%Rec	1	3/6/2024 12:29:12 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/6/2024 12:29:12 AM
Toluene	ND	0.048	mg/Kg	1	3/6/2024 12:29:12 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/6/2024 12:29:12 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/6/2024 12:29:12 AM
Surr: 4-Bromofluorobenzene	93.7	39.1-146	%Rec	1	3/6/2024 12:29:12 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 4:38:47 PM

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

- 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

Date Reported: 3/13/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: S-4 4'

 Project:
 SJ 28 6 Unit 114M
 Collection Date: 3/1/2024 12:40:00 PM

 Lab ID:
 2403057-012
 Matrix: SOIL
 Received Date: 3/2/2024 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JKU
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/5/2024 9:22:31 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/5/2024 9:22:31 PM
Surr: DNOP	110	61.2-134	%Rec	1	3/5/2024 9:22:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/6/2024 12:52:51 AM
Surr: BFB	98.5	15-244	%Rec	1	3/6/2024 12:52:51 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	3/6/2024 12:52:51 AM
Toluene	ND	0.046	mg/Kg	1	3/6/2024 12:52:51 AM
Ethylbenzene	ND	0.046	mg/Kg	1	3/6/2024 12:52:51 AM
Xylenes, Total	ND	0.092	mg/Kg	1	3/6/2024 12:52:51 AM
Surr: 4-Bromofluorobenzene	92.7	39.1-146	%Rec	1	3/6/2024 12:52:51 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	3/7/2024 4:51:07 PM

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

- 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **2403057**

13-Mar-24

Client: HILCORP ENERGY
Project: SJ 28 6 Unit 114M

Sample ID: MB-80797 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 80797 RunNo: 103524

Prep Date: 3/5/2024 Analysis Date: 3/5/2024 SeqNo: 3831345 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-80797 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 80797 RunNo: 103524

Prep Date: 3/5/2024 Analysis Date: 3/5/2024 SeqNo: 3831347 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.9 90 110

Sample ID: MB-80821 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 80821 RunNo: 103588

Prep Date: 3/6/2024 Analysis Date: 3/7/2024 SeqNo: 3833988 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-80821 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 80821 RunNo: 103588

Prep Date: 3/6/2024 Analysis Date: 3/7/2024 SeqNo: 3833989 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.7 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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Hall Environmental Analysis Laboratory, Inc.

5.2

WO#: **2403057**

13-Mar-24

Client: HILCORP ENERGY
Project: SJ 28 6 Unit 114M

Sample ID: MB-80779 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 80779 RunNo: 103530
Prep Date: 3/4/2024 Analysis Date: 3/5/2024 SeqNo: 3831738 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 11 10.00 110 61.2 134

Sample ID: LCS-80779 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 80779 RunNo: 103530 Prep Date: 3/4/2024 Analysis Date: 3/5/2024 SeqNo: 3831739 Units: %Rec SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual

104

612

134

5.000

Sample ID: MB-80788 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 80788 RunNo: 103530 Prep Date: 3/5/2024 Analysis Date: 3/5/2024 SeqNo: 3831773 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 11 10.00 111 61.2 134

Sample ID: LCS-80788 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Batch ID: 80788 Client ID: LCSS RunNo: 103530 Prep Date: 3/5/2024 Analysis Date: 3/5/2024 SeqNo: 3831774 Units: mg/Kg Result SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte HighLimit Qual Diesel Range Organics (DRO) 45 10 50.00 0 90.6 59.7 135 Surr: DNOP 5.000 108 5.4 61.2 134

Qualifiers:

Surr: DNOP

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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Hall Environmental Analysis Laboratory, Inc.

WO#: **2403057**

13-Mar-24

Client: HILCORP ENERGY
Project: SJ 28 6 Unit 114M

Sample ID: Ics-80774 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 80774 RunNo: 103517

Prep Date: 3/4/2024 Analysis Date: 3/5/2024 SeqNo: 3831419 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 24 5.0 25.00 0 97.3 70 130

Surr: BFB 2200 1000 217 15 244

Sample ID: mb-80774 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 80774 RunNo: 103517

Prep Date: 3/4/2024 Analysis Date: 3/5/2024 SeqNo: 3831421 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 103 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

Hall Environmental Analysis Laboratory, Inc.

WO#: **2403057**

13-Mar-24

Client:	HILCORP ENERGY
Project:	SJ 28 6 Unit 114M

Sample ID: LCS-80774	SampType: LCS TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	h ID: 80	774	4 RunNo: 103517						
Prep Date: 3/4/2024	Analysis [Date: 3/	5/2024	SeqNo: 3831458			Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.025	1.000	0	71.8	70	130			
Toluene	0.76	0.050	1.000	0	75.6	70	130			
Ethylbenzene	0.78	0.050	1.000	0	78.2	70	130			
Xylenes, Total	2.4	0.10	3.000	0	78.8	70	130			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	39.1	146			
Sample ID: mb-80774	Samp	Гуре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles	·	<u>'</u>
Client ID: PBS	Batc	h ID: 80	774	4 RunNo: 103517						

Sample ID: mb-80774	SampT	ype: ME	BLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	1D: 80 7	774	F	RunNo: 1	03517					
Prep Date: 3/4/2024	Analysis D	ate: 3/	5/2024	SeqNo: 3831460			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	0.98		1.000		98.1	39.1	146				

Sample ID: 2403057-004ams	Samp	Гуре: М	3	Tes	8021B: Volatiles					
Client ID: S-2 0-6"	Batc	h ID: 80	774	F	RunNo: 1	03517				
Prep Date: 3/4/2024	Analysis D)ate: 3/	5/2024	S	SeqNo: 3	831500	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9794	0	83.7	70	130			
Toluene	0.87	0.049	0.9794	0	89.0	70	130			
Ethylbenzene	0.92	0.049	0.9794	0	93.5	70	130			
Xylenes, Total	2.8	0.098	2.938	0.02074	93.2	70	130			
Surr: 4-Bromofluorobenzene	0.98		0.9794		100	39.1	146			

Sample ID: 2403057-004amsd SampType: MSD			TestCode: EPA Method 8021B: Volatiles							
Client ID: S-2 0-6"	Batch	Batch ID: 80774			RunNo: 103517					
Prep Date: 3/4/2024	Analysis D	ate: 3/	5/2024	S	SeqNo: 3	831501	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.79	0.025	0.9804	0	80.7	70	130	3.56	20	
Toluene	0.85	0.049	0.9804	0	87.1	70	130	2.11	20	
Ethylbenzene	0.90	0.049	0.9804	0	92.1	70	130	1.42	20	
Xylenes, Total	2.7	0.098	2.941	0.02074	92.7	70	130	0.411	20	
Surr: 4-Bromofluorobenzene	0.90		0.9804		91.9	39.1	146	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

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Environment Testin

Eurofins Environment Testing South Central, LLC

4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name:	HILCORP	ENERGY	Work	Order Num	ber: 240	3057		Rcpt	tNo: 1
Received By	: Cheyenne	e Cason	3/2/202	4 8:00:00 A	M		Chenl		
Completed B	y: Cheyenne	Cason	3/2/202	4 8:35:55 A	М		Chul		
Reviewed By	DAD	3/2/20	1						
Chain of C	ustody								
	f Custody comp	lete?			Yes	V	No 🗌	Not Present	
2. How was t	he sample deliv	vered?			Cou	rier			
Log In	tempt made to	cool the samn	les?		Yes		No 🗌	NA [
O. Was all all	tempt made to	coor the aginp	163 :		103	123	110		
4. Were all sa	amples received	l at a tempera	ture of >0° C	to 6.0°C	Yes	V	No 🗆	NA [
5. Sample(s)	in proper conta	iner(s)?			Yes	V	No 🗌		
6. Sufficient s	ample volume	for indicated to	est(s)?		Yes	~	No 🗌		
7. Are sample	es (except VOA	and ONG) pro	operly preserve	ed?	Yes	✓	No 🗌		
8. Was prese	rvative added to	bottles?			Yes		No 🗹	NA 🗆]
9. Received a	t least 1 vial wi	th headspace	<1/4" for AQ \	OA?	Yes		No 🗌	NA ⊻	
10. Were any	sample contain	ers received b	roken?		Yes		No 🗸	# of preserved	
	rwork match bo				Yes	V	No 🗌	bottles checked for pH:	2 - 2 12 united metad)
-	epancies on ch	•			Yes		No 🗆	Adjusted?	2 or >12 unless noted)
	es correctly ider hat analyses w					V	No 🗆		
	olding times abl		•		Yes		No 🗆	Checked by	: ou 3/2/24
	y customer for a							1	U
Special Han	dling (if ap)	olicable)							
15. Was client	notified of all d	iscrepancies	with this order?	?	Yes		No 🗆	NA S	
Pers	on Notified:	Г		Date		-		w.	
Ву V	Vhom:			Via:	eMa	ail 🗀] Phone [] Fa	x In Person	
Rega	arding:	Γ							
Clier	nt Instructions:								
16. Additional	remarks:								
17. Cooler In	formation								
Cooler			Seal Intact	Seal No	Seal D	ate	Signed By		
1	0.0 4.8	Good	Yes	Yogi					
2	4.0	Good	Yes	Yogi					

Chain-of-Custody Record	Turn-Around Time:
Client: Hilcorp	Standard Rush HALL ENVIRONMENTAL
	Standard Rush Project Name: ANALYSIS LABORATORY
Mailing Address:	www.hallenvironmontol.com
J. 121.0001	1) J 28-6 Unit 11444 4901 Howking NE Allen
	1 TOJOOC #.
Phone #:	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request
email or Fax#: branden Sindair@hileorp Com	Project Manager:
arvao raukaye.	Project Manager:
□ Standard □ Level 4 (Full Validation)	Samentha Grabert SINS SAMS SINS SAMSELLITATION OF STATE O
Accreditation: Accreditation: Az Compliance	Container Present/Absent) Type and # Type
□ NELAC □ Other	On Ice: Yes No Yes No Yes Ves Ves Ves Ves Ves Ves Ves Ves Ves V
	Sampler: Brandon Sinclair On Ice: Yes ON YOUR BY BY 8310 or 8270 (Semi-VOA) Total Coliform (Present Type and # Type and # Type
- 3	Container Pesticii EDB (Method Type ARP By 831 Postici Pr. Ph. By 832 Postici Pr. Ph. By 83
	Container Preservative HEAL No.
ate Time Matrix Sample Name	Type and # Type
-1 1030 Soil 5-1 0-6"	402 jar cool 001
1040 5-12	
1055 5-14	002
1105 5-2 0-6	003
A CONCORDER TO THE PARTY OF THE	004
1115 5-2 2	005
1130 5-2 4	806
1140 5-3 0-6	007
1150 5-3 2	008
1210 5-3 4	069
1215 5-4 0-6	
1225 5-4 2	010
1 1240 5-44'	611
to: Time: Deli il il	Repeived by: Via: Date Time Remarks:
44 Les & Finder	Date Time Remarks:
te: Time: Relinquished by:	eceived by: Via: Date Time
124 1920 / Shot Was	
	MC COUNER 1224 0800 tracked to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Samantha Grabert Hilcorp Energy PO BOX 4700 Farmington, New Mexico 87499

Generated 6/4/2024 3:23:52 PM

JOB DESCRIPTION

SJ 28-6 114M

JOB NUMBER

885-5276-1

Eurofins Albuquerque 4901 Hawkins NE Albuquerque NM 87109

Eurofins Albuquerque

Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

Authorization

Generated 6/4/2024 3:23:52 PM

Authorized for release by Andy Freeman, Business Unit Manager andy.freeman@et.eurofinsus.com (505)345-3975

6/4/2024

Laboratory Job ID: 885-5276-1

Client: Hilcorp Energy Project/Site: SJ 28-6 114M

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Receipt Checklists	

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Definitions/Glossary

Client: Hilcorp Energy Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

Qualifiers

GC VOA

Qualifier **Qualifier Description**

S1+ Surrogate recovery exceeds control limits, high biased.

Glossary

MCL

MDA

MDC

C.000	
Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

Not Detected at the reporting limit (or MDL or EDL if shown) ND

EPA recommended "Maximum Contaminant Level"

Minimum Detectable Concentration (Radiochemistry)

Minimum Detectable Activity (Radiochemistry)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) TEQ Toxicity Equivalent Quotient (Dioxin)

Too Numerous To Count **TNTC**

Case Narrative

Client: Hilcorp Energy Job ID: 885-5276-1 Project: SJ 28-6 114M

Job ID: 885-5276-1 Eurofins Albuquerque

Job Narrative 885-5276-1

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

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

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

Receipt

The samples were received on 5/30/2024 6:55 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°C.

Gasoline Range Organics

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

GC VOA

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

Diesel Range Organics

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

HPLC/IC

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

Eurofins Albuquerque

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Client: Hilcorp Energy

Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

Client Sample ID: SW-01 Lab Sample ID: 885-5276-1

Date Collected: 05/29/24 12:00 Matrix: Solid Date Received: 05/30/24 06:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		05/30/24 09:15	05/30/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		35 - 166			05/30/24 09:15	05/30/24 23:08	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	mg/Kg		05/30/24 09:15	05/30/24 23:08	1
Ethylbenzene	ND		0.040	mg/Kg		05/30/24 09:15	05/30/24 23:08	1
Toluene	ND		0.040	mg/Kg		05/30/24 09:15	05/30/24 23:08	1
Xylenes, Total	ND		0.080	mg/Kg		05/30/24 09:15	05/30/24 23:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/30/24 09:15	05/30/24 23:08	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8	mg/Kg		05/30/24 10:37	05/30/24 13:54	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 10:37	05/30/24 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	86		62 - 134			05/30/24 10:37	05/30/24 13:54	1
Method: EPA 300.0 - Anions, Ion	Chromatograp	hy						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client: Hilcorp Energy Project/Site: SJ 28-6 114M Job ID: 885-5276-1

Client Sample ID: SW-02

Lab Sample ID: 885-5276-2

Matrix: Solid

Date Collected: 05/29/24 12:05 Date Received: 05/30/24 06:55

Method: EPA 300.0 - Anions, Ion Chromatography

Result Qualifier

ND

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.3	mg/Kg		05/30/24 09:15	05/31/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/30/24 09:15	05/31/24 00:19	1
Method: SW846 8021B - Volatile (Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		05/30/24 09:15	05/31/24 00:19	1
Ethylbenzene	ND		0.043	mg/Kg		05/30/24 09:15	05/31/24 00:19	1
Toluene	ND		0.043	mg/Kg		05/30/24 09:15	05/31/24 00:19	1
Xylenes, Total	ND		0.086	mg/Kg		05/30/24 09:15	05/31/24 00:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/30/24 09:15	05/31/24 00:19	1
Method: SW846 8015M/D - Diesel	Range Organ	ics (DRO) (GC)					
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/30/24 10:37	05/30/24 14:05	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 10:37	05/30/24 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85	· 	62 - 134			05/30/24 10:37	05/30/24 14:05	

RL

60

Unit

mg/Kg

Prepared

05/30/24 12:07

Dil Fac

20

Analyzed

05/30/24 20:32

Client: Hilcorp Energy

Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

Client Sample ID: SW-03 Lab Sample ID: 885-5276-3

Matrix: Solid

Date Collected: 05/29/24 12:10 Date Received: 05/30/24 06:55

Motor Oil Range Organics [C28-C40]

Di-n-octyl phthalate (Surr)

Surrogate

Method: SW846 8015M/D - Gasol	line Range Org	anics (GRC	O) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.3	mg/Kg		05/30/24 09:15	05/31/24 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/30/24 09:15	05/31/24 01:29	1
- Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		05/30/24 09:15	05/31/24 01:29	1
Ethylbenzene	ND		0.043	mg/Kg		05/30/24 09:15	05/31/24 01:29	1
Toluene	ND		0.043	mg/Kg		05/30/24 09:15	05/31/24 01:29	1
Xylenes, Total	ND		0.086	mg/Kg		05/30/24 09:15	05/31/24 01:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		48 - 145			05/30/24 09:15	05/31/24 01:29	1
- Method: SW846 8015M/D - Diese	I Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2	mg/Kg		05/30/24 10:37	05/30/24 14:15	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND =	60	mg/Kg		05/30/24 12:07	05/30/24 21:09	20

62 - 134

mg/Kg

05/30/24 10:37

Prepared

05/30/24 10:37

05/30/24 14:15

Analyzed

05/30/24 14:15

Dil Fac

ND

%Recovery Qualifier

87

Client: Hilcorp Energy

Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

Lab Sample ID: 885-5276-4

Matrix: Solid

Client Sample ID: SW-04

Date Collected: 05/29/24 12:15
Date Received: 05/30/24 06:55

_ 4

Dil Fac

20

Analyzed

05/30/24 21:22

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.1	mg/Kg		05/30/24 09:15	05/31/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		35 - 166			05/30/24 09:15	05/31/24 01:52	1
Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.021	mg/Kg		05/30/24 09:15	05/31/24 01:52	1
Ethylbenzene	ND		0.041	mg/Kg		05/30/24 09:15	05/31/24 01:52	1
Toluene	ND		0.041	mg/Kg		05/30/24 09:15	05/31/24 01:52	1
Xylenes, Total	ND		0.082	mg/Kg		05/30/24 09:15	05/31/24 01:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		48 - 145			05/30/24 09:15	05/31/24 01:52	1
Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1	mg/Kg		05/30/24 10:37	05/30/24 14:26	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		05/30/24 10:37	05/30/24 14:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			05/30/24 10:37	05/30/24 14:26	

RL

60

Unit

mg/Kg

Prepared

05/30/24 12:07

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte

Chloride

Result Qualifier

ND

Client: Hilcorp Energy

Project/Site: SJ 28-6 114M

Di-n-octyl phthalate (Surr)

Client Sample ID: FW-01 Lab Sample ID: 885-5276-5

Matrix: Solid

Job ID: 885-5276-1

Date Collected: 05/29/24 12:20 Date Received: 05/30/24 06:55

Method: SW846 8015M/D - Gaso	line Range Org	anics (GRC)) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.0	mg/Kg		05/30/24 09:15	05/31/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		35 - 166			05/30/24 09:15	05/31/24 02:16	1
- Method: SW846 8021B - Volatile	Organic Comp	ounds (GC))					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.020	mg/Kg		05/30/24 09:15	05/31/24 02:16	1
Ethylbenzene	ND		0.040	mg/Kg		05/30/24 09:15	05/31/24 02:16	1
Toluene	ND		0.040	mg/Kg		05/30/24 09:15	05/31/24 02:16	1
Xylenes, Total	ND		0.080	mg/Kg		05/30/24 09:15	05/31/24 02:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		48 - 145			05/30/24 09:15	05/31/24 02:16	1
- Method: SW846 8015M/D - Diese	l Range Organ	ics (DRO) (GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9	mg/Kg		05/30/24 10:37	05/30/24 14:37	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		05/30/24 10:37	05/30/24 14:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND ND	60	mg/Kg		05/30/24 12:07	05/30/24 21:34	20

62 - 134

Client: Hilcorp Energy Project/Site: SJ 28-6 114M

Job ID: 885-5276-1

Client Sample ID: FW-02

Lab Sample ID: 885-5276-6

Matrix: Solid

Date Collected: 05/29/24 12:25 Date Received: 05/30/24 06:55

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		3.6	mg/Kg		05/30/24 09:15	05/31/24 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		35 - 166			05/30/24 09:15	05/31/24 02:39	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.018	mg/Kg		05/30/24 09:15	05/31/24 02:39	1
Ethylbenzene	ND		0.036	mg/Kg		05/30/24 09:15	05/31/24 02:39	1
Toluene	ND		0.036	mg/Kg		05/30/24 09:15	05/31/24 02:39	1
Xylenes, Total	ND		0.072	mg/Kg		05/30/24 09:15	05/31/24 02:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		48 - 145			05/30/24 09:15	05/31/24 02:39	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4	mg/Kg		05/30/24 10:37	05/30/24 14:48	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		05/30/24 10:37	05/30/24 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	90		62 - 134			05/30/24 10:37	05/30/24 14:48	1

Method: EPA 300.0 - Anions, Ion C	hromatography						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND	60	mg/Kg		05/30/24 12:07	05/30/24 21:46	20

Lab Sample ID: MB 885-5850/1-A

Job ID: 885-5276-1 Client: Hilcorp Energy

Project/Site: SJ 28-6 114M

Analysis Batch: 5929

Matrix: Solid

Dil Fac

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5850

Analyte Result Qualifier RLUnit D Prepared Analyzed Gasoline Range Organics [C6 - C10] ND 5.0 mg/Kg 05/30/24 09:15 05/30/24 22:45 MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 97 35 - 166 05/30/24 09:15 05/30/24 22:45

Lab Sample ID: LCS 885-5850/2-A

Matrix: Solid

Analysis Batch: 5929

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

Prep Batch: 5850

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits 25.0 24.4 98 70 - 130 Gasoline Range Organics [C6 mg/Kg C10]

LCS LCS %Recovery Qualifier Limits Surrogate 4-Bromofluorobenzene (Surr) 201 S1+ 35 - 166

Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

мв мв

Lab Sample ID: 885-5276-1 MS

Matrix: Solid

Matrix: Solid

Analysis Batch: 5929

Analysis Batch: 5929

Client Sample ID: SW-01 Prep Type: Total/NA

Prep Batch: 5850

Sample Sample Spike MS MS Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits 20.0 103 70 - 130 Gasoline Range Organics [C6 -ND 20.6 mg/Kg C10]

Limits

35 - 166

MS MS

Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 209 S1+

Client Sample ID: SW-01

Prep Type: Total/NA

Prep Batch: 5850

Sample Sample MSD MSD RPD Spike %Rec Result Qualifier Result Qualifier babbA Limits RPD Limit Analyte Unit %Rec Gasoline Range Organics [C6 -ND 20.0 20.4 mg/Kg 102 70 - 130 20 C10]

MSD MSD

%Recovery Qualifier Surrogate Limits 208 S1+ 35 - 166 4-Bromofluorobenzene (Surr)

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-5850/1-A

Lab Sample ID: 885-5276-1 MSD

Matrix: Solid

Analysis Batch: 5930

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5850

	MB M	ИВ					
Analyte	Result Q	Qualifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND	0.025	mg/Kg		05/30/24 09:15	05/30/24 22:45	1
Ethylbenzene	ND	0.050	mg/Kg		05/30/24 09:15	05/30/24 22:45	1
Toluene	ND	0.050	mg/Kg		05/30/24 09:15	05/30/24 22:45	1

Client Sample ID: Method Blank

Job ID: 885-5276-1 Client: Hilcorp Energy

Project/Site: SJ 28-6 114M

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-5850/1-A **Matrix: Solid**

Analysis Batch: 5930

Prep Type: Total/NA Prep Batch: 5850 MB MB

Result Qualifier RL Unit D Prepared Analyzed Dil Fac ND 0.10 05/30/24 09:15 05/30/24 22:45 mg/Kg

MR MR %Recovery Qualifier Limits Prepared Analyzed Dil Fac 4-Bromofluorobenzene (Surr) 91 48 - 145 05/30/24 09:15 05/30/24 22:45

Lab Sample ID: LCS 885-5850/3-A Client Sample ID: Lab Control Sample

Analyte

Xylenes, Total

Analysis Batch: 5930

Matrix: Solid Prep Type: Total/NA Prep Batch: 5850

LCS LCS Spike %Rec Added Result Qualifier Analyte Unit D %Rec Limits Benzene 1.00 0.954 mg/Kg 95 70 - 130Ethylbenzene 1.00 0.893 mg/Kg 89 70 - 130 m&p-Xylene 2.00 1.79 mg/Kg 90 70 - 130 o-Xylene 1.00 0.874 mg/Kg 87 70 - 130 Toluene 1.00 0.890 mg/Kg 89 70 - 130

LCS LCS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 96 48 - 145

Lab Sample ID: 885-5276-2 MS Client Sample ID: SW-02 Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 5930

Prep Batch: 5850 MS MS Sample Sample Spike %Rec Qualifier %Rec Analyte Result Added Result Qualifier Unit D Limits Benzene ND 0.856 0.791 92 70 - 130 mg/Kg ND 0.856 0.746 87 70 - 130 Ethylbenzene mg/Kg m&p-Xylene ND 1.71 1.50 mg/Kg 86 70 - 130 ND 0.856 0.735 70 - 130 o-Xylene mg/Kg 86 Toluene ND 0.856 0.745 mg/Kg 86 70 - 130

MS MS Surrogate %Recovery Qualifier Limits 93 48 - 145 4-Bromofluorobenzene (Surr)

Lab Sample ID: 885-5276-2 MSD

Matrix: Solid

Analysis Batch: 5930

Client Sample ID: SW-02 Prep Type: Total/NA Prep Batch: 5850

Sample Sample Spike MSD MSD %Rec **RPD** Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit Benzene ND 0.856 0.786 mg/Kg 92 70 - 13020 Ethylbenzene ND 0.856 0.750 mg/Kg 88 70 - 130 20 ND 1.71 1.53 88 70 - 130 m&p-Xylene mg/Kg 2 20 ND 0.856 0.750 88 70 - 130 20 o-Xylene mg/Kg 2 0.856 Toluene ND 0.734 mg/Kg 84 70 - 130 20

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 98 48 - 145

Job ID: 885-5276-1 Client: Hilcorp Energy

Project/Site: SJ 28-6 114M

Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-5868/1-A

Analysis Batch: 5939

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5868

MB MB Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Diesel Range Organics [C10-C28] ND 10 mg/Kg 05/30/24 10:37 05/30/24 13:32 Motor Oil Range Organics [C28-C40] ND 50 mg/Kg 05/30/24 10:37 05/30/24 13:32

MB MB

Qualifier Limits Dil Fac Surrogate %Recovery Prepared Analyzed Di-n-octyl phthalate (Surr) 78 62 - 134 05/30/24 10:37 05/30/24 13:32

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 5868

Analysis Batch: 5939

Lab Sample ID: LCS 885-5868/2-A

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 50.0 45.9 92 60 - 135 Diesel Range Organics mg/Kg

[C10-C28]

Matrix: Solid

LCS LCS Surrogate %Recovery Qualifier Limits Di-n-octyl phthalate (Surr) 74 62 - 134

Lab Sample ID: 885-5276-6 MS

Matrix: Solid

Analysis Batch: 5939

Client Sample ID: FW-02 Prep Type: Total/NA

Prep Batch: 5868

MS MS %Rec Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 49.9 50.7 **Diesel Range Organics** ND mg/Kg 102 44 - 136 [C10-C28]

MS MS

%Recovery Qualifier Limits Surrogate Di-n-octyl phthalate (Surr) 62 - 134 85

Lab Sample ID: 885-5276-6 MSD

Matrix: Solid

Analysis Batch: 5939

Client Sample ID: FW-02 Prep Type: Total/NA

Prep Batch: 5868

RPD %Rec

MSD MSD Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits RPD Limit **Diesel Range Organics** ND 46.0 44.5 44 - 136 mg/Kg

[C10-C28]

MSD MSD %Recovery Surrogate Qualifier Limits Di-n-octyl phthalate (Surr) 83 62 - 134

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-5848/1-A

Matrix: Solid

Analysis Batch: 5918

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 5848

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride ND 1.5 mg/Kg 05/30/24 09:08 05/30/24 16:13

QC Sample Results

Client: Hilcorp Energy Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-5848/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid			Prep Type: Total/NA
Analysis Batch: 5918			Prep Batch: 5848
	Spike	LCS LCS	%Rec

Result Qualifier Added Analyte Unit %Rec Limits Chloride 15.0 14.0 mg/Kg 94 90 - 110

QC Association Summary

Client: Hilcorp Energy

Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

GC VOA

Prep Batch: 5850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-5276-1	SW-01	Total/NA	Solid	5035	
885-5276-2	SW-02	Total/NA	Solid	5035	
885-5276-3	SW-03	Total/NA	Solid	5035	
885-5276-4	SW-04	Total/NA	Solid	5035	
885-5276-5	FW-01	Total/NA	Solid	5035	
885-5276-6	FW-02	Total/NA	Solid	5035	
MB 885-5850/1-A	Method Blank	Total/NA	Solid	5035	
LCS 885-5850/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCS 885-5850/3-A	Lab Control Sample	Total/NA	Solid	5035	
885-5276-1 MS	SW-01	Total/NA	Solid	5035	
885-5276-1 MSD	SW-01	Total/NA	Solid	5035	
885-5276-2 MS	SW-02	Total/NA	Solid	5035	
885-5276-2 MSD	SW-02	Total/NA	Solid	5035	

Analysis Batch: 5929

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5276-1	SW-01	Total/NA	Solid	8015M/D	5850
885-5276-2	SW-02	Total/NA	Solid	8015M/D	5850
885-5276-3	SW-03	Total/NA	Solid	8015M/D	5850
885-5276-4	SW-04	Total/NA	Solid	8015M/D	5850
885-5276-5	FW-01	Total/NA	Solid	8015M/D	5850
885-5276-6	FW-02	Total/NA	Solid	8015M/D	5850
MB 885-5850/1-A	Method Blank	Total/NA	Solid	8015M/D	5850
LCS 885-5850/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5850
885-5276-1 MS	SW-01	Total/NA	Solid	8015M/D	5850
885-5276-1 MSD	SW-01	Total/NA	Solid	8015M/D	5850

Analysis Batch: 5930

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5276-1	SW-01	Total/NA	Solid	8021B	5850
885-5276-2	SW-02	Total/NA	Solid	8021B	5850
885-5276-3	SW-03	Total/NA	Solid	8021B	5850
885-5276-4	SW-04	Total/NA	Solid	8021B	5850
885-5276-5	FW-01	Total/NA	Solid	8021B	5850
885-5276-6	FW-02	Total/NA	Solid	8021B	5850
MB 885-5850/1-A	Method Blank	Total/NA	Solid	8021B	5850
LCS 885-5850/3-A	Lab Control Sample	Total/NA	Solid	8021B	5850
885-5276-2 MS	SW-02	Total/NA	Solid	8021B	5850
885-5276-2 MSD	SW-02	Total/NA	Solid	8021B	5850

GC Semi VOA

Prep Batch: 5868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
885-5276-1	SW-01	Total/NA	Solid	SHAKE	_
885-5276-2	SW-02	Total/NA	Solid	SHAKE	
885-5276-3	SW-03	Total/NA	Solid	SHAKE	
885-5276-4	SW-04	Total/NA	Solid	SHAKE	
885-5276-5	FW-01	Total/NA	Solid	SHAKE	
885-5276-6	FW-02	Total/NA	Solid	SHAKE	
MB 885-5868/1-A	Method Blank	Total/NA	Solid	SHAKE	

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QC Association Summary

Client: Hilcorp Energy Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

GC Semi VOA (Continued)

Prep Batch: 5868 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method Prep Batch	
LCS 885-5868/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-5276-6 MS	FW-02	Total/NA	Solid	SHAKE	
885-5276-6 MSD	FW-02	Total/NA	Solid	SHAKE	

Analysis Batch: 5939

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5276-1	SW-01	Total/NA	Solid	8015M/D	5868
885-5276-2	SW-02	Total/NA	Solid	8015M/D	5868
885-5276-3	SW-03	Total/NA	Solid	8015M/D	5868
885-5276-4	SW-04	Total/NA	Solid	8015M/D	5868
885-5276-5	FW-01	Total/NA	Solid	8015M/D	5868
885-5276-6	FW-02	Total/NA	Solid	8015M/D	5868
MB 885-5868/1-A	Method Blank	Total/NA	Solid	8015M/D	5868
LCS 885-5868/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	5868
885-5276-6 MS	FW-02	Total/NA	Solid	8015M/D	5868
885-5276-6 MSD	FW-02	Total/NA	Solid	8015M/D	5868

HPLC/IC

Prep Batch: 5848

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5276-1	SW-01	Total/NA	Solid	300_Prep	
885-5276-2	SW-02	Total/NA	Solid	300_Prep	
885-5276-3	SW-03	Total/NA	Solid	300_Prep	
885-5276-4	SW-04	Total/NA	Solid	300_Prep	
885-5276-5	FW-01	Total/NA	Solid	300_Prep	
885-5276-6	FW-02	Total/NA	Solid	300_Prep	
MB 885-5848/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-5848/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 5918

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-5276-1	SW-01	Total/NA	Solid	300.0	5848
885-5276-2	SW-02	Total/NA	Solid	300.0	5848
885-5276-3	SW-03	Total/NA	Solid	300.0	5848
885-5276-4	SW-04	Total/NA	Solid	300.0	5848
885-5276-5	FW-01	Total/NA	Solid	300.0	5848
885-5276-6	FW-02	Total/NA	Solid	300.0	5848
MB 885-5848/1-A	Method Blank	Total/NA	Solid	300.0	5848
LCS 885-5848/2-A	Lab Control Sample	Total/NA	Solid	300.0	5848

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Job ID: 885-5276-1

Client: Hilcorp Energy Project/Site: SJ 28-6 114M

Client Sample ID: SW-01

Date Collected: 05/29/24 12:00 Date Received: 05/30/24 06:55 Lab Sample ID: 885-5276-1

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/30/24 23:08
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/30/24 23:08
Total/NA	Prep	SHAKE			5868	DH	EET ALB	05/30/24 10:37
Total/NA	Analysis	8015M/D		1	5939	JU	EET ALB	05/30/24 13:54
Total/NA	Prep	300_Prep			5848	RC	EET ALB	05/30/24 12:07
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 20:20

Client Sample ID: SW-02 Lab Sample ID: 885-5276-2

Date Collected: 05/29/24 12:05

Date Received: 05/30/24 06:55

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035		<u> </u>	5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/31/24 00:19
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/31/24 00:19
Total/NA	Prep	SHAKE			5868	DH	EET ALB	05/30/24 10:37
Total/NA	Analysis	8015M/D		1	5939	JU	EET ALB	05/30/24 14:05
Total/NA	Prep	300_Prep			5848	RC	EET ALB	05/30/24 12:07
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 20:32

Client Sample ID: SW-03 Lab Sample ID: 885-5276-3 Date Collected: 05/29/24 12:10

Date Received: 05/30/24 06:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/31/24 01:29
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/31/24 01:29
Total/NA	Prep	SHAKE			5868	DH	EET ALB	05/30/24 10:37
Total/NA	Analysis	8015M/D		1	5939	JU	EET ALB	05/30/24 14:15
Total/NA	Prep	300_Prep			5848	RC	EET ALB	05/30/24 12:07
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 21:09

Client Sample ID: SW-04 Lab Sample ID: 885-5276-4

Date Collected: 05/29/24 12:15 Date Received: 05/30/24 06:55

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Type	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/31/24 01:52

Eurofins Albuquerque

Matrix: Solid

Matrix: Solid

Dilution

Batch

5918 RC

EET ALB

Batch

Client Sample ID: SW-04

Client: Hilcorp Energy

Date Collected: 05/29/24 12:15 Date Received: 05/30/24 06:55

Batch

Prepared or Analyzed 05/30/24 09:15

Prep Type Туре Method Run Factor Number Analyst Lab Total/NA Prep 5035 5850 AT EET ALB Total/NA Analysis 8021B 1 5930 JP **EET ALB** 05/31/24 01:52 Total/NA Prep SHAKE 5868 DH **EET ALB** 05/30/24 10:37 Total/NA Analysis 8015M/D 1 5939 JU **EET ALB** 05/30/24 14:26 Total/NA Prep 300 Prep 5848 RC **EET ALB** 05/30/24 12:07 Total/NA Analysis 300.0 20 5918 RC **EET ALB** 05/30/24 21:22

Lab Sample ID: 885-5276-5

Matrix: Solid

Client Sample ID: FW-01 Date Collected: 05/29/24 12:20 Date Received: 05/30/24 06:55

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number Analyst Lab or Analyzed Prep Total/NA 5035 5850 AT **EET ALB** 05/30/24 09:15 Total/NA 8015M/D JΡ **EET ALB** 05/31/24 02:16 Analysis 1 5929 Total/NA 05/30/24 09:15 Prep 5035 5850 ΑT **EET ALB** Total/NA 8021B JΡ **EET ALB** 05/31/24 02:16 Analysis 1 5930 Total/NA SHAKE 5868 DH **EET ALB** 05/30/24 10:37 Prep Total/NA Analysis 8015M/D 1 5939 JU **EET ALB** 05/30/24 14:37 300 Prep EET ALB 05/30/24 12:07 Total/NA Prep 5848 RC

20

Client Sample ID: FW-02

Analysis

300.0

Total/NA

Date Collected: 05/29/24 12:25 Date Received: 05/30/24 06:55

Lab Sample ID: 885-5276-6

05/30/24 21:34

Matrix: Solid

	Batch	Batch		Dilution	Batch			Prepared
Prep Type	Туре	Method	Run	Factor	Number	Analyst	Lab	or Analyzed
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8015M/D		1	5929	JP	EET ALB	05/31/24 02:39
Total/NA	Prep	5035			5850	AT	EET ALB	05/30/24 09:15
Total/NA	Analysis	8021B		1	5930	JP	EET ALB	05/31/24 02:39
Total/NA	Prep	SHAKE			5868	DH	EET ALB	05/30/24 10:37
Total/NA	Analysis	8015M/D		1	5939	JU	EET ALB	05/30/24 14:48
Total/NA	Prep	300_Prep			5848	RC	EET ALB	05/30/24 12:07
Total/NA	Analysis	300.0		20	5918	RC	EET ALB	05/30/24 21:46

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

Accreditation/Certification Summary

Client: Hilcorp Energy Job ID: 885-5276-1

Project/Site: SJ 28-6 114M

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority	Prog	ıram	Identification Number	Expiration Date
ew Mexico	State	•	NM9425, NM0901	02-26-25
The following analytes	are included in this report, l	out the laboratory is not certif	ied by the governing authority. This lis	t may include analytes
for which the agency do	oes not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte	
300.0	300_Prep	Solid	Chloride	
8015M/D	5035	Solid	Gasoline Range Organics	[C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C	10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics	[C28-C40]
8021B	5035	Solid	Benzene	
8021B	5035	Solid	Ethylbenzene	
8021B	5035	Solid	Toluene	
8021B	5035	Solid	Xylenes, Total	
egon	NEL	AP	NM100001	02-26-25

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Chain-of-Custody Record Client: Hilcosp Energy Company Attn: Sumantha Grabest Mailing Address:	Turn-Around Time: □ Standard Rush Next Day Project Name: 5 J 28 - 6 114 M Project #:	HALL ENVIRONMENTAL ANALYSIS LABOR www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 8710
Phone #: email or Fax#: Samantha. Grabert@ Licorp.com QA/QC Package: D Standard		Tel. 505-345-3975 Fax 505-345-4107 Analysis Request (1) (1) (1) (1) (2) (1) (3) (1) (4) (4) (5) (4) (5) (6) (7) (9) (1) (1) (1) (1) (2) (3) (4) (4) (5) (4) (5) (6) (7) (9) (1) (1) (1) (1) (2) (3) (4) (4) (5) (4) (5) (6) (7) (7) (8) (9) (1) (1) (1) (1) (2) (3) (4) (4) (5) (6) (7) (7) (8) (9) (9) (1) (1) (1) (1) (1) (2) (3) (4) (4) (5) (6) (7) (7) (8) (9) (9) (1) (1) (1) (1) (1) (2) (3) (4) (4) (5) (6) (7) (7) (7) (8) (8) (9) (9) (9) (9) (9) (9
Date Time Matrix Sample Name	# of Coolers: Your Cooler Temp(Including CF): I 9-0-1=1.8 (°C) Container Preservative HEAL No. Type and # Type Ix 407 Cool	X BTEX / ##TBE / TMB's (802 TPH:8015D(GRO / DRO / MR 8081 Pesticides/8082 PCB's EDB (Method 504.1) PAHs by 8310 or 8270SIMS RCRA 8 Metals RCRA 8 Metals R260 (VOA) 8260 (VOA) Total Coliform (Present/Abse
1210 SW-07 1215 SW-07 1220 FW-01 1220 FW-01	2 3 4 5 0	
Date. Time Relinquished by: SAM W	Received by Via. Date Time Sold Sold	Remarks: Product CC. Shyde @cnsolvm Shyde @cnsolvm is possibility Any sub-contracted data will be clearly notated on the analytical report

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-5276-1

Login Number: 5276 List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

Cleator. Casarrubias, Tracy		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>True</td> <td></td>	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

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

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

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

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

QUESTIONS

Action 356007

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356007
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2317839684
Incident Name	NAPP2317839684 SAN JUAN 28-6 UNIT 114M @ 30-039-26649
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-039-26649] SAN JUAN 28 6 UNIT #114M

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAN JUAN 28-6 UNIT 114M
Date Release Discovered	06/26/2023
Surface Owner	Federal

Incident Details	
Please answer all the questions in this group.	
Incident Type	Produced Water 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.	
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion Production Tank Produced Water Released: 35 BBL Recovered: 0 BBL Lost: 35 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 Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

District I

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II 811. S. First St. Artesia, NM 88210

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

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 2

Action 356007

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356007
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	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.	

nitial Response	
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.	
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	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	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Name: Stuart Hyde
Title: Senior Geologist
Email: shyde@ensolum.com
Date: 06/19/2024

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410

Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS, Page 3

Action 356007

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356007
	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 release discovery date.		
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	No	
What is the minimum distance, between the closest lateral extents of the release and 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)	Greater than 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)	
Any other fresh water well or spring	Between 1 and 5 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 500 and 1000 (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 ½ and 1 (mi.)	
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 contaminat	tion 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 Cl B)	65	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4300	
GRO+DRO (EPA SW-846 Method 8015M)	4100	
BTEX (EPA SW-846 Method 8021B or 8260B)	379.8	
Benzene (EPA SW-846 Method 8021B or 8260B)	2.8	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comple which includes the anticipated timelines for beginning and completing the remediation.	eted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	06/26/2023	
On what date will (or did) the final sampling or liner inspection occur	05/29/2024	
On what date will (or was) the remediation complete(d)	05/29/2024	
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	956	
What is the estimated volume (in cubic yards) that will be remediated	96	
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 i	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.

District I

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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 356007

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356007
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
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.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)		
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 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

hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement

Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 06/19/2024

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

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

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

QUESTIONS, Page 5

Action 356007

QUESTIONS (d	continued
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Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356007
	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 No submission

District I

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV** 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 6

Action 356007

QUESTIONS	(continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356007
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	347739
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	05/29/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	500

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all re	emediation 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	956
What was the total volume (cubic yards) remediated	96
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)	NA

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (in .pdf format) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. 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

I hereby agree and sign off to the above statement

Email: shyde@ensolum.com
Date: 06/19/2024

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QUESTIONS, Page 7

Action 356007

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	356007
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

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CONDITIONS

Action 356007

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
	Action Number:
Houston, TX 77002	356007
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	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	8/9/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	8/9/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	8/9/2024