ENSOLUM

April 21, 2025

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

Re: Site Summary Report and Closure Request
San Juan 30-6 #407
Rio Arriba County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2502953998

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Summary Report and Closure Request* associated with a produced water release at San Juan 30-6 #407 natural gas production well (Site, Figure 1). The Site is located on surface managed by the New Mexico State Land Office (NMSLO) in Unit H, Section 16, Township 30 North, Range 6 West, Rio Arriba County, New Mexico (36.81555°, -107.46278°).

SITE BACKGROUND

On January 28, 2025, a Hilcorp operator discovered the inlet tank valve on a tank was leaking, resulting in the release of 20 barrels (bbls) of produced water. Upon discovery, the source of the release was stopped, the pumping unit shut off, valve closed, and the impacted area was secured. Released fluids were contained within the raised secondary containment berm. A water truck was able to recover standing water inside the berm, and all standing fluids (20 bbls) were recovered (area shown on Figure 2). Hilcorp notified the New Mexico Oil Conservation Division (NMOCD) and submitted an initial *Notification of Release* on January 29, 2025. NMOCD assigned the release incident number nAPP2502953998.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

The Site is located within the San Jose Geologic Formation. In the report titled "*Geologic Framework of Pre-Cretaceous Rocks in the Southern Ute Indian Reservation and Adjacent Areas, Southwestern Colorado and Northwestern New Mexico*" (Condon, S.M., 1992), the San Jose Formation is comprised primarily of sandstone, shale, and minor conglomerate. Sandstone is brown to greyish-yellow, fine-grained, medium to thickly bedded, arkosic, cross-bedded, and conglomeratic. Gray, red, and brown sandy shales and white and gray tuff are interbedded. The unit results from a fluvial and lacustrine depositional environment, and ranges in thickness from 1,100 feet to 2,500 feet. The hydrogeologic properties of the San Jose Formation display variable hydrogeologic properties dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply. The San Jose Formation is underlain by the Ojo Alamo sandstone.

The closest significant watercourse is an unnamed dry wash located 2,601 feet northeast of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and is approximately 1,003 feet from a wetland (Figure 1). The nearest well to the Site is a cathodic well located on the San Juan 30-6 Unit #50 and #473 well pad (API 30-039-07789, Appendix A). This cathodic well is located approximately 8,184 feet south-southwest of the Site and the shallowest recorded water is 90 feet below ground surface (bgs). The nearest New Mexico Office of the State Engineer (NMOSE) permitted well with depth-to-water information is SJ-04279, located 12,777 feet to the southeast. Based on recorded water information, groundwater at the Site is estimated to be between 50 feet and 100 feet bgs. No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile radius from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the Bureau of Land Management (BLM)). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

SITE CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- TPH as a combination of GRO+DRO: 1,000 mg/kg
- Chloride: 10,000 mg/kg

CULTURAL RESOURCE SURVEY

Since the release remained on pad, an assessment of cultural properties had already been completed prior to the construction of the well pad and as such, the Cultural Properties Protection Rule (CPP) has been followed. No additional cultural resource surveys were completed in connection with this release.

SITE ASSESSMENT ACTIVITIES

To assess potential soil impacts originating from the release, Hilcorp advanced eight hand auger borings (S-1 through S-8) on February 11, 2025 (Figure 2). The NMOCD was notified prior to commencing on-Site activities (Appendix B). The NMSLO was also notified prior to beginning sampling activities. Two soil samples were collected from each boring for laboratory analysis: one sample from the surface interval from ground surface to 6 inches bgs and one from the terminus of the boring at 1-foot to 2 feet bgs. Samples were collected directly into laboratory-provided jars, immediately placed on ice, and submitted to Eurofins Environment Testing in Albuquerque, New Mexico for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B, TPH-GRO, TPH-DRO, and TPH-MRO following EPA Method 8015, and chloride following EPA Method 300.0. Photographs taken during field activities are also attached as Appendix C.

Laboratory analytical results indicated BTEX, TPH, and chloride concentrations from the eight sample locations were not detected above the NMOCD Table I Closure Criteria or reclamation requirement in any of the soil samples collected during the February 2025 assessment. Soil sample analytical results are summarized in Table 1 and Figure 2, with complete laboratory analytical reports attached as Appendix D.

RECLAMATION PLAN

The release remained on the well pad currently in operation for oil and gas production purposes. As such, the release area is not expected to be reclaimed until the oil and gas well is plugged and abandoned (P&A'd) and the well pad is reclaimed. The Reclamation Plan for this release will default to the NMSLO-approved Reclamation Plan for the well pad per 19.2.100.67 NMAC.

CONCLUSIONS AND CLOSURE REQUEST

Based on the soil sampling activities and analytical results described above, petroleum hydrocarbon and/or chloride contaminants were not detected in any of the samples collected at the Site above the NMOCD Table I Closure Criteria or reclamation requirement. The Site appears to be absent of soil impacts and waste-containing material. As such, Site conditions appear to be protective of human health, the environment, and groundwater, and Hilcorp respectfully requests closure for Incident Number nAPP2502953998.

REFERENCES

Condon, S.M., 1992, Geologic Framework of Pre-Cretaceous Rocks in the Southern Ute Indian Reservation and Adjacent Areas, Southwestern Colorado and northwestern New Mexico, U.S. Geological Survey, Professional Paper 1505-A, 1:100,000.

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

Sincerely,
Ensolum, LLC

Tracy Dembrowski
Project Geologist
(720) 989-6175
tdembrowski@ensolum.com

Daniel R. Moir, PG (licensed in WY & TX)
Senior Managing Geologist
(303) 887-2946
dmoir@ensolum.com

cc: NMSLO - ECO

Attachments:

Figure 1: Site Receptor Map
Figure 2: Soil Sample Location Map

Table 1: Soil Sample Analytical Results

Appendix A: Cathodic Well Data Sheet
Appendix B: Agency Sampling Notification
Appendix C: Photographic Log
Appendix D: Laboratory Analytical Reports

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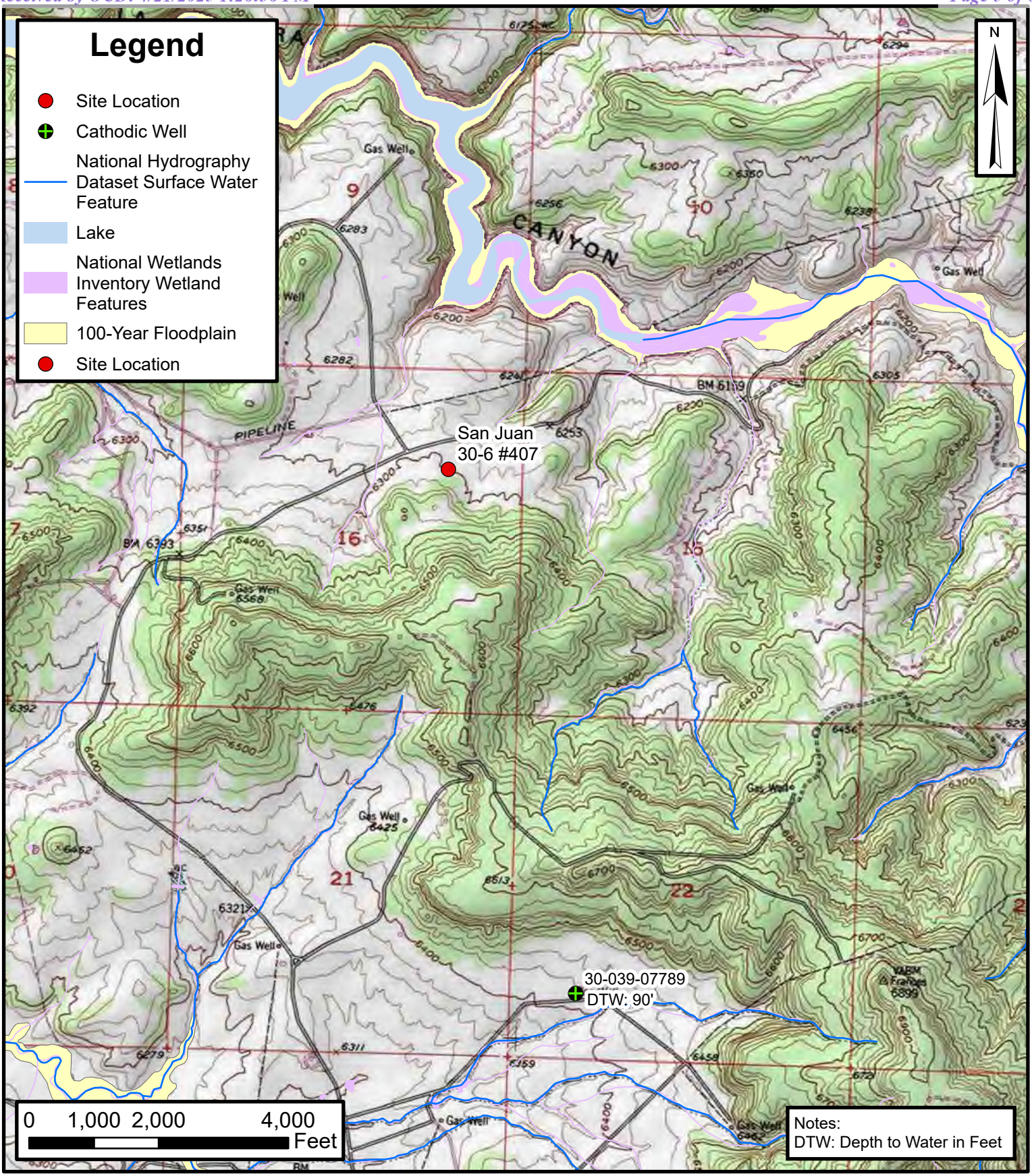
FIGURES



Default Folder: C:\Users\Greg Pates\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Hilcorp\San Juan 30-6 #407

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Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

San Juan 30-6 #407
Hilcorp Energy Company
36.81555, -107.46278
Rio Arriba County, New Mexico

FIGURE
1

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community (ESRI), United States Geologic Survey (USGS), United States Fish and Wildlife Service (USFWS), National Geographic Society, i-cubed

Default Folder: C:\Users\Greg Pates\OneDrive - ENSOLUM, LLC\Desktop\Ensolum GIS\Ensolum GIS\1 - Durango\Hilcorp\San Juan 30-6 #407

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Soil Sample Locations Map

San Juan 30-6 #407
Hilcorp Energy Company
36.81555, -107.46278
Rio Arriba County, New Mexico

FIGURE
2

Sources: Google Earth (2022)

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
San Juan 30-6 #407
Hilcorp Energy Company
Rio Arriba County, New Mexico

Sample Identification	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			**10**	NE	NE	NE	**50**	NE	NE	NE	**1,000**	**2,500**	**10,000**
S-1 0-6"	2/11/2025	0-0.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<48	<9.5	<48	280
S-1 1-2'	2/11/2025	1-2	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.9	<49	<9.9	<49	<60
S-2 0-6"	2/11/2025	0-0.5	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.1	<46	<9.1	<46	120
S-2 1-2'	2/11/2025	1-2	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<48	<9.7	<48	<60
S-3 0-6"	2/11/2025	0-0.5	<0.023	<0.046	<0.046	<0.093	<0.093	<4.6	<9.3	<47	<9.3	<47	82
S-3 1-2'	2/11/2025	1-2	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<9.4	<47	130
S-4 0-6"	2/11/2025	0-0.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<10	<50	<10	<50	100
S-4 1-2'	2/11/2025	1-2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<10	<50	<10	<50	<61
S-5 0-6"	2/11/2025	0-0.5	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.7	<48	<9.7	<48	240
S-5 1-2'	2/11/2025	1-2	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.5	<47	<9.5	<47	200
S-6 0-6"	2/11/2025	0-0.5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<9.8	<49	480
S-6 1-2'	2/11/2025	1-2	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.7	<49	<9.7	<49	84
S-7 0-6"	2/11/2025	0-0.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<9.5	<47	100
S-7 1-2'	2/11/2025	1-2	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.2	<46	<9.2	<46	250
S-8 0-6"	2/11/2025	0-0.5	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.9	<49	<9.9	<49	400
S-8 1-2'	2/11/2025	1-2	<0.023	<0.046	<0.046	<0.092	<0.092	<4.6	<9.3	<46	<9.3	<46	170

Notes:

bgs: Below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: Milligrams per kilogram
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
': Feet
<: 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*

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APPENDIX A

Cathodic Well Data Sheet

50- 30-039-07789
473 - 30-039- 24476

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit M Sec. 22 Twp 30 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-¢ UNIT #50, #473

cps 214w

Elevation 6414' Completion Date 1/9/90 Total Depth 380' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water, when possible:

Fresh, Clear, Salty, Sulphur, Etc. DAMP AT 90' & 175'

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 325', 315', 305', 295', 260', 250', 240', 220', 210', 200'

Depths vent pipes placed: 381' OF 1" PVC VENT PIPE

Vent pipe perforations: BOTTOM 300'

Remarks: gb #3 OLD GB DESTROYED AND ONLY 15' FROM 473 WELL HEAD.

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

50- 30-039-07789
473- 30-039-24476

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 22 Twp 30 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #50, #473

cps 214w

Elevation 6414' Completion Date 7/7/66 Total Depth 420' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. N/A

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

Depths gas encountered: N/A

Type & amount of coke breeze used: 5000 lbs.

Depths anodes placed: 306', 300', 239', 233', 227', 221', 215', 203', 197'

Depths vent pipes placed: 306' OF 3/4" PLASTIC HOSE

Vent pipe perforations: 125'

Remarks: gb #2

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

So-30-039-07789
473-30-039-24476

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL Location: Unit SW Sec. 22 Twp 30 Rng 6

Name of Well/Wells or Pipeline Serviced SAN JUAN 30-6 UNIT #50, #473

cps 214w

Elevation 6414' Completion Date 4/16/63 Total Depth 140' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: 1105 lbs.

Depths anodes placed: 128', 120', 100', 94', 88'

Depths vent pipes placed: N/A

Vent pipe perforations: N/A

Remarks: gb #1

RECEIVED
MAY 31 1991
OIL CON. DIV
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

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APPENDIX B

Agency Sampling Notificaiton

Outlook

RE: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 429974

From Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>
Date Mon 2/10/2025 11:03 AM
To Kate Kaufman <kkaufman@hilcorp.com>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>; eco@nmslo.gov <eco@nmslo.gov>
Cc Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

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

Good Morning Kate,

Your variance request specifically addressing 19.15.29.12D (1a) NMAC is approved.

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

The OCD requires a copy of all correspondence relative to remedial activities be included in all proposals and/or final closure reports. Correspondence required to be included in reports may include, but not limited to, notifications for liner inspections, sample events, spill/release/fire, and request for time extensions or variances.

Regards,
Scott

Scott Rodgers ● Environmental Specialist – Adv.
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland NE, Suite B | Albuquerque, NM 87113
505.469.1830 | scott.rodgers@emnrd.nm.gov
http://www.emnrd.nm.gov/ocd

From: Kate Kaufman <kkaufman@hilcorp.com>
Sent: Monday, February 10, 2025 9:41 AM
To: Rodgers, Scott, EMNRD <Scott.Rodgers@emnrd.nm.gov>; Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>; eco@nmslo.gov
Subject: FW: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 429974

Good morning,

Hilcorp previously scheduled a sampling event at the SJ 30-6 #407 release area for this Wednesday, 2/12 at 10AM MST. We would like to move the sampling up to tomorrow, Tuesday 2/11 due to incoming weather that will potentially impede access to the site.

Notification submitted via the portal. Please let me know if you have any questions.

Thank you,
Kate

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Monday, February 10, 2025 10:35 AM
To: Kate Kaufman <kkaufman@hilcorp.com>
Subject: [EXTERNAL] The Oil Conservation Division (OCD) has accepted the application, Application ID: 429974

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

To whom it may concern (c/o Kate Kaufman for HILCORP ENERGY COMPANY),

The OCD has received the submitted *Notification for (Final) Sampling of a Release* (C-141N), for incident ID (n#) nAPP2502953998.

The sampling event is expected to take place:

When: 02/11/2025 @ 10:00
Where: H-16-30N-06W 1540 FNL 1175 FEL (36.81555,-107.46278)

Additional Information: brandon.sinclair@hilcorp.com

Additional Instructions: Lat: 36.81555, Long: 107.46278

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

The information contained in this email message is confidential and may be legally privileged and is intended only for the use of the individual or entity named above. If you are not an intended recipient or if you have received this message in error, you are hereby notified that any dissemination, distribution, or copy of this email is strictly prohibited. If you have received this email in error, please immediately notify us by return email or telephone if the sender's phone number is listed above, then promptly and permanently delete this message.

While all reasonable care has been taken to avoid the transmission of viruses, it is the responsibility of the recipient to ensure that the onward transmission, opening, or use of this message and any attachments will not adversely affect its systems or data. No responsibility is accepted by the company in this regard and the recipient should carry out such virus and other checks as it considers appropriate.

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APPENDIX C

Photographic Log

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Photographic Log
Hilcorp Energy Company
San Juan 30-6 #407
36.81555°, -107.46278°

Photograph: 1 Date: Undated
Description: Soil staining in release footprint
View: North

Photograph: 2 Date: Undated
Description: Soil staining in release footprint
View: Southeast

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APPENDIX D

Laboratory Analytical Reports

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Kate Kaufman
Hilcorp Energy
PO BOX 4700
Farmington, New Mexico 87499

Generated 2/20/2025 1:58:57 PM

JOB DESCRIPTION

SJ 30 6 Unit 407

JOB NUMBER

885-19876-1

Eurofins Albuquerque
4901 Hawkins NE
Albuquerque NM 87109

See page two for job notes and contact information.

Released to Imaging: 5/5/2025 3:38:54 PM

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
2/20/2025 1:58:57 PM

Authorized for release by
Michelle Garcia, Project Manager
michelle.garcia@et.eurofinsus.com
(505)345-3975

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Laboratory Job ID: 885-19876-1

Table of Contents

Definitions/Glossary

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Hilcorp Energy
Project: SJ 30 6 Unit 407

Job ID: 885-19876-1

Job ID: 885-19876-1 Eurofins Albuquerque

Job Narrative
885-19876-1

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 and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided 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 2/13/2025 6:30 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.3°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.

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-1 0-6"

Date Collected: 02/11/25 10:10
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-1

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		02/13/25 13:15	02/17/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*87*		*35 - 166*	*02/13/25 13:15*	*02/17/25 12:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/13/25 13:15	02/17/25 12:34	1
Ethylbenzene	ND		0.050		mg/Kg		02/13/25 13:15	02/17/25 12:34	1
Toluene	ND		0.050		mg/Kg		02/13/25 13:15	02/17/25 12:34	1
Xylenes, Total	ND		0.099		mg/Kg		02/13/25 13:15	02/17/25 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*48 - 145*	*02/13/25 13:15*	*02/17/25 12:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		02/17/25 08:26	02/17/25 12:09	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/17/25 08:26	02/17/25 12:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*02/17/25 08:26*	*02/17/25 12:09*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**280**		60		mg/Kg		02/13/25 15:00	02/14/25 10:35	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-1 1-2'

Date Collected: 02/11/25 10:20
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-2

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		02/13/25 13:15	02/17/25 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/13/25 13:15*	*02/17/25 13:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/13/25 13:15	02/17/25 13:39	1
Ethylbenzene	ND		0.050		mg/Kg		02/13/25 13:15	02/17/25 13:39	1
Toluene	ND		0.050		mg/Kg		02/13/25 13:15	02/17/25 13:39	1
Xylenes, Total	ND		0.10		mg/Kg		02/13/25 13:15	02/17/25 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/17/25 13:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		02/17/25 08:26	02/17/25 12:20	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/17/25 08:26	02/17/25 12:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*105*		*62 - 134*	*02/17/25 08:26*	*02/17/25 12:20*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/13/25 15:00	02/14/25 10:46	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-2 0-6"

Date Collected: 02/11/25 10:30
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-3

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		02/13/25 13:15	02/17/25 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*02/13/25 13:15*	*02/17/25 14:44*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 14:44	1
Ethylbenzene	ND		0.047		mg/Kg		02/13/25 13:15	02/17/25 14:44	1
Toluene	ND		0.047		mg/Kg		02/13/25 13:15	02/17/25 14:44	1
Xylenes, Total	ND		0.095		mg/Kg		02/13/25 13:15	02/17/25 14:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*02/13/25 13:15*	*02/17/25 14:44*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.1		mg/Kg		02/17/25 08:26	02/17/25 12:30	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/17/25 08:26	02/17/25 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*101*		*62 - 134*	*02/17/25 08:26*	*02/17/25 12:30*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**		60		mg/Kg		02/13/25 15:00	02/14/25 11:53	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-2 1-2'

Date Collected: 02/11/25 10:40
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-4

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		02/13/25 13:15	02/17/25 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*35 - 166*	*02/13/25 13:15*	*02/17/25 15:06*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/13/25 13:15	02/17/25 15:06	1
Ethylbenzene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 15:06	1
Toluene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 15:06	1
Xylenes, Total	ND		0.098		mg/Kg		02/13/25 13:15	02/17/25 15:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*02/13/25 13:15*	*02/17/25 15:06*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		02/17/25 08:26	02/17/25 12:41	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/17/25 08:26	02/17/25 12:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*90*		*62 - 134*	*02/17/25 08:26*	*02/17/25 12:41*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60		mg/Kg		02/13/25 15:00	02/14/25 12:04	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-3 0-6"
Date Collected: 02/11/25 10:50
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-5
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		02/13/25 13:15	02/18/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*35 - 166*	*02/13/25 13:15*	*02/18/25 17:14*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/13/25 13:15	02/18/25 17:14	1
Ethylbenzene	ND		0.046		mg/Kg		02/13/25 13:15	02/18/25 17:14	1
Toluene	ND		0.046		mg/Kg		02/13/25 13:15	02/18/25 17:14	1
Xylenes, Total	ND		0.093		mg/Kg		02/13/25 13:15	02/18/25 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*48 - 145*	*02/13/25 13:15*	*02/18/25 17:14*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		02/17/25 08:26	02/17/25 13:02	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/17/25 08:26	02/17/25 13:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*93*		*62 - 134*	*02/17/25 08:26*	*02/17/25 13:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**82**		60		mg/Kg		02/13/25 15:00	02/14/25 12:14	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-3 1-2'

Date Collected: 02/11/25 11:00
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-6

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		02/13/25 13:15	02/18/25 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/13/25 13:15*	*02/18/25 17:35*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/18/25 17:35	1
Ethylbenzene	ND		0.049		mg/Kg		02/13/25 13:15	02/18/25 17:35	1
Toluene	ND		0.049		mg/Kg		02/13/25 13:15	02/18/25 17:35	1
Xylenes, Total	ND		0.097		mg/Kg		02/13/25 13:15	02/18/25 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/18/25 17:35*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.4		mg/Kg		02/17/25 08:26	02/17/25 13:13	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/17/25 08:26	02/17/25 13:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/17/25 08:26*	*02/17/25 13:13*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		60		mg/Kg		02/13/25 15:00	02/14/25 12:24	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-4 0-6"

Date Collected: 02/11/25 11:10
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-7

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		02/13/25 13:15	02/17/25 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*02/13/25 13:15*	*02/17/25 16:24*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 16:24	1
Ethylbenzene	ND		0.048		mg/Kg		02/13/25 13:15	02/17/25 16:24	1
Toluene	ND		0.048		mg/Kg		02/13/25 13:15	02/17/25 16:24	1
Xylenes, Total	ND		0.096		mg/Kg		02/13/25 13:15	02/17/25 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*02/13/25 13:15*	*02/17/25 16:24*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/17/25 08:26	02/17/25 13:24	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/17/25 08:26	02/17/25 13:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*02/17/25 08:26*	*02/17/25 13:24*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		02/13/25 15:00	02/14/25 12:35	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-4 1-2'
Date Collected: 02/11/25 11:20
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-8
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		02/13/25 13:15	02/17/25 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*02/13/25 13:15*	*02/17/25 16:46*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 16:46	1
Ethylbenzene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 16:46	1
Toluene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 16:46	1
Xylenes, Total	ND		0.098		mg/Kg		02/13/25 13:15	02/17/25 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/17/25 16:46*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/17/25 08:26	02/17/25 13:35	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/17/25 08:26	02/17/25 13:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*110*		*62 - 134*	*02/17/25 08:26*	*02/17/25 13:35*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		61		mg/Kg		02/13/25 15:00	02/14/25 13:06	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-5 0-6"

Date Collected: 02/11/25 11:30
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-9

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		02/13/25 13:15	02/17/25 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*02/13/25 13:15*	*02/17/25 17:07*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 17:07	1
Ethylbenzene	ND		0.048		mg/Kg		02/13/25 13:15	02/17/25 17:07	1
Toluene	ND		0.048		mg/Kg		02/13/25 13:15	02/17/25 17:07	1
Xylenes, Total	ND		0.096		mg/Kg		02/13/25 13:15	02/17/25 17:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/17/25 17:07*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		02/17/25 08:26	02/17/25 13:45	1
Motor Oil Range Organics [C28-C40]	ND		48		mg/Kg		02/17/25 08:26	02/17/25 13:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*97*		*62 - 134*	*02/17/25 08:26*	*02/17/25 13:45*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**		60		mg/Kg		02/13/25 15:00	02/14/25 13:16	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-5 1-2'

Date Collected: 02/11/25 11:40
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-10

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		02/13/25 13:15	02/17/25 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/13/25 13:15*	*02/17/25 17:29*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 17:29	1
Ethylbenzene	ND		0.047		mg/Kg		02/13/25 13:15	02/17/25 17:29	1
Toluene	ND		0.047		mg/Kg		02/13/25 13:15	02/17/25 17:29	1
Xylenes, Total	ND		0.095		mg/Kg		02/13/25 13:15	02/17/25 17:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*02/13/25 13:15*	*02/17/25 17:29*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		02/17/25 08:26	02/17/25 13:56	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/17/25 08:26	02/17/25 13:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*100*		*62 - 134*	*02/17/25 08:26*	*02/17/25 13:56*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**200**		60		mg/Kg		02/13/25 15:00	02/14/25 13:47	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-6 0-6"

Date Collected: 02/11/25 11:50
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-11

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		02/13/25 13:15	02/17/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/13/25 13:15*	*02/17/25 18:13*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/13/25 13:15	02/17/25 18:13	1
Ethylbenzene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 18:13	1
Toluene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 18:13	1
Xylenes, Total	ND		0.099		mg/Kg		02/13/25 13:15	02/17/25 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/17/25 18:13*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.8		mg/Kg		02/17/25 08:26	02/17/25 14:07	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/17/25 08:26	02/17/25 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*98*		*62 - 134*	*02/17/25 08:26*	*02/17/25 14:07*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**480**		60		mg/Kg		02/13/25 15:00	02/14/25 13:57	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-6 1-2'

Date Collected: 02/11/25 12:00
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-12

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		02/13/25 13:15	02/17/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*02/13/25 13:15*	*02/17/25 18:34*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 18:34	1
Ethylbenzene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 18:34	1
Toluene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 18:34	1
Xylenes, Total	ND		0.098		mg/Kg		02/13/25 13:15	02/17/25 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*02/13/25 13:15*	*02/17/25 18:34*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.7		mg/Kg		02/17/25 08:26	02/17/25 14:18	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/17/25 08:26	02/17/25 14:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*104*		*62 - 134*	*02/17/25 08:26*	*02/17/25 14:18*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**84**		60		mg/Kg		02/13/25 15:00	02/14/25 14:08	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-7 0-6"

Date Collected: 02/11/25 12:10
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-13

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.9		mg/Kg		02/13/25 13:15	02/17/25 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*35 - 166*	*02/13/25 13:15*	*02/17/25 18:56*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/13/25 13:15	02/17/25 18:56	1
Ethylbenzene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 18:56	1
Toluene	ND		0.049		mg/Kg		02/13/25 13:15	02/17/25 18:56	1
Xylenes, Total	ND		0.098		mg/Kg		02/13/25 13:15	02/17/25 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*	*02/13/25 13:15*	*02/17/25 18:56*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.5		mg/Kg		02/17/25 08:26	02/17/25 14:29	1
Motor Oil Range Organics [C28-C40]	ND		47		mg/Kg		02/17/25 08:26	02/17/25 14:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*89*		*62 - 134*	*02/17/25 08:26*	*02/17/25 14:29*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**		60		mg/Kg		02/13/25 15:00	02/14/25 14:18	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-7 1-2'

Date Collected: 02/11/25 12:20
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-14

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.8		mg/Kg		02/13/25 13:15	02/17/25 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*35 - 166*	*02/13/25 13:15*	*02/17/25 19:18*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 19:18	1
Ethylbenzene	ND		0.048		mg/Kg		02/13/25 13:15	02/17/25 19:18	1
Toluene	ND		0.048		mg/Kg		02/13/25 13:15	02/17/25 19:18	1
Xylenes, Total	ND		0.096		mg/Kg		02/13/25 13:15	02/17/25 19:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/17/25 19:18*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.2		mg/Kg		02/17/25 08:26	02/17/25 14:39	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/17/25 08:26	02/17/25 14:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*02/17/25 08:26*	*02/17/25 14:39*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**250**		60		mg/Kg		02/13/25 15:00	02/14/25 14:28	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-8 0-6"

Date Collected: 02/11/25 12:30
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-15

Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.7		mg/Kg		02/13/25 13:15	02/17/25 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*35 - 166*	*02/13/25 13:15*	*02/17/25 19:39*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024		mg/Kg		02/13/25 13:15	02/17/25 19:39	1
Ethylbenzene	ND		0.047		mg/Kg		02/13/25 13:15	02/17/25 19:39	1
Toluene	ND		0.047		mg/Kg		02/13/25 13:15	02/17/25 19:39	1
Xylenes, Total	ND		0.095		mg/Kg		02/13/25 13:15	02/17/25 19:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*48 - 145*	*02/13/25 13:15*	*02/17/25 19:39*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.9		mg/Kg		02/17/25 08:26	02/17/25 17:02	1
Motor Oil Range Organics [C28-C40]	ND		49		mg/Kg		02/17/25 08:26	02/17/25 17:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*95*		*62 - 134*	*02/17/25 08:26*	*02/17/25 17:02*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**400**		60		mg/Kg		02/13/25 15:00	02/14/25 14:39	20

Client Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-8 1-2'
Date Collected: 02/11/25 12:40
Date Received: 02/13/25 06:30

Lab Sample ID: 885-19876-16
Matrix: Solid

Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		4.6		mg/Kg		02/13/25 13:15	02/17/25 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*35 - 166*	*02/13/25 13:15*	*02/17/25 20:01*	*1*

Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023		mg/Kg		02/13/25 13:15	02/17/25 20:01	1
Ethylbenzene	ND		0.046		mg/Kg		02/13/25 13:15	02/17/25 20:01	1
Toluene	ND		0.046		mg/Kg		02/13/25 13:15	02/17/25 20:01	1
Xylenes, Total	ND		0.092		mg/Kg		02/13/25 13:15	02/17/25 20:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/17/25 20:01*	*1*

Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		9.3		mg/Kg		02/17/25 08:26	02/17/25 17:25	1
Motor Oil Range Organics [C28-C40]	ND		46		mg/Kg		02/17/25 08:26	02/17/25 17:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Di-n-octyl phthalate (Surr)	*96*		*62 - 134*	*02/17/25 08:26*	*02/17/25 17:25*	*1*

Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		60		mg/Kg		02/13/25 15:00	02/14/25 14:49	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

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

Lab Sample ID: MB 885-20793/1-A
Matrix: Solid
Analysis Batch: 20909

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20793

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics [C6 - C10]	ND		5.0		mg/Kg		02/13/25 13:15	02/17/25 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*35 - 166*	*02/13/25 13:15*	*02/17/25 12:12*	*1*

Lab Sample ID: LCS 885-20793/2-A
Matrix: Solid
Analysis Batch: 20909

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20793

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]			25.0	19.5		mg/Kg		78	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*204*		*35 - 166*

Lab Sample ID: 885-19876-1 MS
Matrix: Solid
Analysis Batch: 21045

Client Sample ID: S-1 0-6"
Prep Type: Total/NA
Prep Batch: 20793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics [C6 - C10]	ND		24.8	19.4		mg/Kg		78	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*186*		*35 - 166*

Lab Sample ID: 885-19876-1 MSD
Matrix: Solid
Analysis Batch: 21045

Client Sample ID: S-1 0-6"
Prep Type: Total/NA
Prep Batch: 20793

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics [C6 - C10]	ND		24.8	17.6		mg/Kg		71	70 - 130	10	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*192*		*35 - 166*

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-20793/1-A
Matrix: Solid
Analysis Batch: 20910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20793

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025		mg/Kg		02/13/25 13:15	02/17/25 12:12	1
Ethylbenzene	ND		0.050		mg/Kg		02/13/25 13:15	02/17/25 12:12	1
Toluene	ND		0.050		mg/Kg		02/13/25 13:15	02/17/25 12:12	1

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

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

Lab Sample ID: MB 885-20793/1-A
Matrix: Solid
Analysis Batch: 20910

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20793

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	ND		0.10		mg/Kg		02/13/25 13:15	02/17/25 12:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*89*		*48 - 145*	*02/13/25 13:15*	*02/17/25 12:12*	*1*

Lab Sample ID: LCS 885-20793/3-A
Matrix: Solid
Analysis Batch: 20910

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20793

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			1.00	0.966		mg/Kg		97	70 - 130		
Ethylbenzene			1.00	0.974		mg/Kg		97	70 - 130		
m&p-Xylene			2.00	1.92		mg/Kg		96	70 - 130		
o-Xylene			1.00	0.937		mg/Kg		94	70 - 130		
Toluene			1.00	0.956		mg/Kg		96	70 - 130		
Xylenes, Total			3.00	2.86		mg/Kg		95	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*48 - 145*

Lab Sample ID: 885-19876-2 MS
Matrix: Solid
Analysis Batch: 20910

Client Sample ID: S-1 1-2'
Prep Type: Total/NA
Prep Batch: 20793

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	ND		0.992	0.888		mg/Kg		90	70 - 130		
Ethylbenzene	ND		0.992	0.864		mg/Kg		87	70 - 130		
m&p-Xylene	ND		1.98	1.72		mg/Kg		87	70 - 130		
o-Xylene	ND		0.992	0.844		mg/Kg		85	70 - 130		
Toluene	ND		0.992	0.887		mg/Kg		89	70 - 130		
Xylenes, Total	ND		2.98	2.57		mg/Kg		86	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*48 - 145*

Lab Sample ID: 885-19876-2 MSD
Matrix: Solid
Analysis Batch: 20910

Client Sample ID: S-1 1-2'
Prep Type: Total/NA
Prep Batch: 20793

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	ND		1.00	0.876		mg/Kg		88	70 - 130	1	20
Ethylbenzene	ND		1.00	0.866		mg/Kg		87	70 - 130	0	20
m&p-Xylene	ND		2.00	1.77		mg/Kg		88	70 - 130	3	20
o-Xylene	ND		1.00	0.846		mg/Kg		85	70 - 130	0	20
Toluene	ND		1.00	0.872		mg/Kg		87	70 - 130	2	20
Xylenes, Total	ND		3.00	2.61		mg/Kg		87	70 - 130	2	20

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

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

Lab Sample ID: 885-19876-2 MSD
Matrix: Solid
Analysis Batch: 20910

Client Sample ID: S-1 1-2'
Prep Type: Total/NA
Prep Batch: 20793

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

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

Lab Sample ID: MB 885-20899/1-A
Matrix: Solid
Analysis Batch: 20897

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20899

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10		mg/Kg		02/17/25 08:26	02/17/25 11:03	1
Motor Oil Range Organics [C28-C40]	ND		50		mg/Kg		02/17/25 08:26	02/17/25 11:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	*94*		*62 - 134*	*02/17/25 08:26*	*02/17/25 11:03*	*1*

Lab Sample ID: LCS 885-20899/2-A
Matrix: Solid
Analysis Batch: 20897

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20899

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Diesel Range Organics [C10-C28]			50.0	50.3		mg/Kg		101	60 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Di-n-octyl phthalate (Surr)	*77*		*62 - 134*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-20800/1-A
Matrix: Solid
Analysis Batch: 20838

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 20800

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		3.0		mg/Kg		02/13/25 15:00	02/14/25 09:33	1

Lab Sample ID: LCS 885-20800/2-A
Matrix: Solid
Analysis Batch: 20838

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 20800

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride			30.0	28.6		mg/Kg		95	90 - 110		

Lab Sample ID: 885-19876-7 MS
Matrix: Solid
Analysis Batch: 20838

Client Sample ID: S-4 0-6"
Prep Type: Total/NA
Prep Batch: 20800

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	100		29.7	134		mg/Kg		99	50 - 150		

QC Sample Results

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 885-19876-7 MSD
Matrix: Solid
Analysis Batch: 20838

Client Sample ID: S-4 0-6"
Prep Type: Total/NA
Prep Batch: 20800

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	100		29.9	131		mg/Kg		89	50 - 150	2	20

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

GC VOA

Prep Batch: 20793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1	S-1 0-6"	Total/NA	Solid	5030C	
885-19876-2	S-1 1-2'	Total/NA	Solid	5030C	
885-19876-3	S-2 0-6"	Total/NA	Solid	5030C	
885-19876-4	S-2 1-2'	Total/NA	Solid	5030C	
885-19876-5	S-3 0-6"	Total/NA	Solid	5030C	
885-19876-6	S-3 1-2'	Total/NA	Solid	5030C	
885-19876-7	S-4 0-6"	Total/NA	Solid	5030C	
885-19876-8	S-4 1-2'	Total/NA	Solid	5030C	
885-19876-9	S-5 0-6"	Total/NA	Solid	5030C	
885-19876-10	S-5 1-2'	Total/NA	Solid	5030C	
885-19876-11	S-6 0-6"	Total/NA	Solid	5030C	
885-19876-12	S-6 1-2'	Total/NA	Solid	5030C	
885-19876-13	S-7 0-6"	Total/NA	Solid	5030C	
885-19876-14	S-7 1-2'	Total/NA	Solid	5030C	
885-19876-15	S-8 0-6"	Total/NA	Solid	5030C	
885-19876-16	S-8 1-2'	Total/NA	Solid	5030C	
MB 885-20793/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-20793/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-20793/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-19876-1 MS	S-1 0-6"	Total/NA	Solid	5030C	
885-19876-1 MSD	S-1 0-6"	Total/NA	Solid	5030C	
885-19876-2 MS	S-1 1-2'	Total/NA	Solid	5030C	
885-19876-2 MSD	S-1 1-2'	Total/NA	Solid	5030C	

Analysis Batch: 20909

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1	S-1 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-2	S-1 1-2'	Total/NA	Solid	8015M/D	20793
885-19876-3	S-2 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-4	S-2 1-2'	Total/NA	Solid	8015M/D	20793
885-19876-7	S-4 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-8	S-4 1-2'	Total/NA	Solid	8015M/D	20793
885-19876-9	S-5 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-10	S-5 1-2'	Total/NA	Solid	8015M/D	20793
885-19876-11	S-6 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-12	S-6 1-2'	Total/NA	Solid	8015M/D	20793
885-19876-13	S-7 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-14	S-7 1-2'	Total/NA	Solid	8015M/D	20793
885-19876-15	S-8 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-16	S-8 1-2'	Total/NA	Solid	8015M/D	20793
MB 885-20793/1-A	Method Blank	Total/NA	Solid	8015M/D	20793
LCS 885-20793/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	20793

Analysis Batch: 20910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1	S-1 0-6"	Total/NA	Solid	8021B	20793
885-19876-2	S-1 1-2'	Total/NA	Solid	8021B	20793
885-19876-3	S-2 0-6"	Total/NA	Solid	8021B	20793
885-19876-4	S-2 1-2'	Total/NA	Solid	8021B	20793
885-19876-7	S-4 0-6"	Total/NA	Solid	8021B	20793
885-19876-8	S-4 1-2'	Total/NA	Solid	8021B	20793

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

GC VOA (Continued)

Analysis Batch: 20910 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-9	S-5 0-6"	Total/NA	Solid	8021B	20793
885-19876-10	S-5 1-2'	Total/NA	Solid	8021B	20793
885-19876-11	S-6 0-6"	Total/NA	Solid	8021B	20793
885-19876-12	S-6 1-2'	Total/NA	Solid	8021B	20793
885-19876-13	S-7 0-6"	Total/NA	Solid	8021B	20793
885-19876-14	S-7 1-2'	Total/NA	Solid	8021B	20793
885-19876-15	S-8 0-6"	Total/NA	Solid	8021B	20793
885-19876-16	S-8 1-2'	Total/NA	Solid	8021B	20793
MB 885-20793/1-A	Method Blank	Total/NA	Solid	8021B	20793
LCS 885-20793/3-A	Lab Control Sample	Total/NA	Solid	8021B	20793
885-19876-2 MS	S-1 1-2'	Total/NA	Solid	8021B	20793
885-19876-2 MSD	S-1 1-2'	Total/NA	Solid	8021B	20793

Analysis Batch: 21045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1 MS	S-1 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-1 MSD	S-1 0-6"	Total/NA	Solid	8015M/D	20793

Analysis Batch: 21046

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-5	S-3 0-6"	Total/NA	Solid	8021B	20793
885-19876-6	S-3 1-2'	Total/NA	Solid	8021B	20793

Analysis Batch: 21047

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-5	S-3 0-6"	Total/NA	Solid	8015M/D	20793
885-19876-6	S-3 1-2'	Total/NA	Solid	8015M/D	20793

GC Semi VOA

Analysis Batch: 20897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1	S-1 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-2	S-1 1-2'	Total/NA	Solid	8015M/D	20899
885-19876-3	S-2 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-4	S-2 1-2'	Total/NA	Solid	8015M/D	20899
885-19876-5	S-3 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-6	S-3 1-2'	Total/NA	Solid	8015M/D	20899
885-19876-7	S-4 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-8	S-4 1-2'	Total/NA	Solid	8015M/D	20899
885-19876-9	S-5 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-10	S-5 1-2'	Total/NA	Solid	8015M/D	20899
885-19876-11	S-6 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-12	S-6 1-2'	Total/NA	Solid	8015M/D	20899
885-19876-13	S-7 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-14	S-7 1-2'	Total/NA	Solid	8015M/D	20899
MB 885-20899/1-A	Method Blank	Total/NA	Solid	8015M/D	20899
LCS 885-20899/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	20899

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

GC Semi VOA

Prep Batch: 20899

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1	S-1 0-6"	Total/NA	Solid	SHAKE	
885-19876-2	S-1 1-2'	Total/NA	Solid	SHAKE	
885-19876-3	S-2 0-6"	Total/NA	Solid	SHAKE	
885-19876-4	S-2 1-2'	Total/NA	Solid	SHAKE	
885-19876-5	S-3 0-6"	Total/NA	Solid	SHAKE	
885-19876-6	S-3 1-2'	Total/NA	Solid	SHAKE	
885-19876-7	S-4 0-6"	Total/NA	Solid	SHAKE	
885-19876-8	S-4 1-2'	Total/NA	Solid	SHAKE	
885-19876-9	S-5 0-6"	Total/NA	Solid	SHAKE	
885-19876-10	S-5 1-2'	Total/NA	Solid	SHAKE	
885-19876-11	S-6 0-6"	Total/NA	Solid	SHAKE	
885-19876-12	S-6 1-2'	Total/NA	Solid	SHAKE	
885-19876-13	S-7 0-6"	Total/NA	Solid	SHAKE	
885-19876-14	S-7 1-2'	Total/NA	Solid	SHAKE	
885-19876-15	S-8 0-6"	Total/NA	Solid	SHAKE	
885-19876-16	S-8 1-2'	Total/NA	Solid	SHAKE	
MB 885-20899/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-20899/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Analysis Batch: 20908

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-15	S-8 0-6"	Total/NA	Solid	8015M/D	20899
885-19876-16	S-8 1-2'	Total/NA	Solid	8015M/D	20899

HPLC/IC

Prep Batch: 20800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1	S-1 0-6"	Total/NA	Solid	300_Prep	
885-19876-2	S-1 1-2'	Total/NA	Solid	300_Prep	
885-19876-3	S-2 0-6"	Total/NA	Solid	300_Prep	
885-19876-4	S-2 1-2'	Total/NA	Solid	300_Prep	
885-19876-5	S-3 0-6"	Total/NA	Solid	300_Prep	
885-19876-6	S-3 1-2'	Total/NA	Solid	300_Prep	
885-19876-7	S-4 0-6"	Total/NA	Solid	300_Prep	
885-19876-8	S-4 1-2'	Total/NA	Solid	300_Prep	
885-19876-9	S-5 0-6"	Total/NA	Solid	300_Prep	
885-19876-10	S-5 1-2'	Total/NA	Solid	300_Prep	
885-19876-11	S-6 0-6"	Total/NA	Solid	300_Prep	
885-19876-12	S-6 1-2'	Total/NA	Solid	300_Prep	
885-19876-13	S-7 0-6"	Total/NA	Solid	300_Prep	
885-19876-14	S-7 1-2'	Total/NA	Solid	300_Prep	
885-19876-15	S-8 0-6"	Total/NA	Solid	300_Prep	
885-19876-16	S-8 1-2'	Total/NA	Solid	300_Prep	
MB 885-20800/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-20800/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-19876-7 MS	S-4 0-6"	Total/NA	Solid	300_Prep	
885-19876-7 MSD	S-4 0-6"	Total/NA	Solid	300_Prep	

QC Association Summary

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

HPLC/IC

Analysis Batch: 20838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-19876-1	S-1 0-6"	Total/NA	Solid	300.0	20800
885-19876-2	S-1 1-2'	Total/NA	Solid	300.0	20800
885-19876-3	S-2 0-6"	Total/NA	Solid	300.0	20800
885-19876-4	S-2 1-2'	Total/NA	Solid	300.0	20800
885-19876-5	S-3 0-6"	Total/NA	Solid	300.0	20800
885-19876-6	S-3 1-2'	Total/NA	Solid	300.0	20800
885-19876-7	S-4 0-6"	Total/NA	Solid	300.0	20800
885-19876-8	S-4 1-2'	Total/NA	Solid	300.0	20800
885-19876-9	S-5 0-6"	Total/NA	Solid	300.0	20800
885-19876-10	S-5 1-2'	Total/NA	Solid	300.0	20800
885-19876-11	S-6 0-6"	Total/NA	Solid	300.0	20800
885-19876-12	S-6 1-2'	Total/NA	Solid	300.0	20800
885-19876-13	S-7 0-6"	Total/NA	Solid	300.0	20800
885-19876-14	S-7 1-2'	Total/NA	Solid	300.0	20800
885-19876-15	S-8 0-6"	Total/NA	Solid	300.0	20800
885-19876-16	S-8 1-2'	Total/NA	Solid	300.0	20800
MB 885-20800/1-A	Method Blank	Total/NA	Solid	300.0	20800
LCS 885-20800/2-A	Lab Control Sample	Total/NA	Solid	300.0	20800
885-19876-7 MS	S-4 0-6"	Total/NA	Solid	300.0	20800
885-19876-7 MSD	S-4 0-6"	Total/NA	Solid	300.0	20800

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-1 0-6"

Lab Sample ID: 885-19876-1
Matrix: Solid
Date Collected: 02/11/25 10:10
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 12:34
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 12:34
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 12:09
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 10:35

Client Sample ID: S-1 1-2'

Lab Sample ID: 885-19876-2
Matrix: Solid
Date Collected: 02/11/25 10:20
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 13:39
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 13:39
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 12:20
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 10:46

Client Sample ID: S-2 0-6"

Lab Sample ID: 885-19876-3
Matrix: Solid
Date Collected: 02/11/25 10:30
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 14:44
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 14:44
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 12:30
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 11:53

Client Sample ID: S-2 1-2'

Lab Sample ID: 885-19876-4
Matrix: Solid
Date Collected: 02/11/25 10:40
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 15:06

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-2 1-2'
Lab Sample ID: 885-19876-4
Date Collected: 02/11/25 10:40
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 15:06
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 12:41
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 12:04

Client Sample ID: S-3 0-6"
Lab Sample ID: 885-19876-5
Date Collected: 02/11/25 10:50
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	21047	AT	EET ALB	02/18/25 17:14
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	21046	AT	EET ALB	02/18/25 17:14
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 13:02
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 12:14

Client Sample ID: S-3 1-2'
Lab Sample ID: 885-19876-6
Date Collected: 02/11/25 11:00
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	21047	AT	EET ALB	02/18/25 17:35
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	21046	AT	EET ALB	02/18/25 17:35
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 13:13
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 12:24

Client Sample ID: S-4 0-6"
Lab Sample ID: 885-19876-7
Date Collected: 02/11/25 11:10
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 16:24
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 16:24

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-4 0-6"
Lab Sample ID: 885-19876-7
Date Collected: 02/11/25 11:10
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 13:24
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 12:35

Client Sample ID: S-4 1-2'
Lab Sample ID: 885-19876-8
Date Collected: 02/11/25 11:20
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 16:46
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 16:46
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 13:35
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 13:06

Client Sample ID: S-5 0-6"
Lab Sample ID: 885-19876-9
Date Collected: 02/11/25 11:30
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 17:07
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 17:07
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 13:45
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 13:16

Client Sample ID: S-5 1-2'
Lab Sample ID: 885-19876-10
Date Collected: 02/11/25 11:40
Matrix: Solid
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 17:29
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 17:29
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 13:56

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-5 1-2'

Lab Sample ID: 885-19876-10
Matrix: Solid
Date Collected: 02/11/25 11:40
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 13:47

Client Sample ID: S-6 0-6"

Lab Sample ID: 885-19876-11
Matrix: Solid
Date Collected: 02/11/25 11:50
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 18:13
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 18:13
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 14:07
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 13:57

Client Sample ID: S-6 1-2'

Lab Sample ID: 885-19876-12
Matrix: Solid
Date Collected: 02/11/25 12:00
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 18:34
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 18:34
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 14:18
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 14:08

Client Sample ID: S-7 0-6"

Lab Sample ID: 885-19876-13
Matrix: Solid
Date Collected: 02/11/25 12:10
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 18:56
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 18:56
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 14:29
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 14:18

Lab Chronicle

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Client Sample ID: S-7 1-2'

Lab Sample ID: 885-19876-14
Matrix: Solid
Date Collected: 02/11/25 12:20
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 19:18
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 19:18
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20897	MI	EET ALB	02/17/25 14:39
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 14:28

Client Sample ID: S-8 0-6"

Lab Sample ID: 885-19876-15
Matrix: Solid
Date Collected: 02/11/25 12:30
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 19:39
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 19:39
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20908	MI	EET ALB	02/17/25 17:02
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 14:39

Client Sample ID: S-8 1-2'

Lab Sample ID: 885-19876-16
Matrix: Solid
Date Collected: 02/11/25 12:40
Date Received: 02/13/25 06:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8015M/D		1	20909	AT	EET ALB	02/17/25 20:01
Total/NA	Prep	5030C			20793	AT	EET ALB	02/13/25 13:15
Total/NA	Analysis	8021B		1	20910	AT	EET ALB	02/17/25 20:01
Total/NA	Prep	SHAKE			20899	MI	EET ALB	02/17/25 08:26
Total/NA	Analysis	8015M/D		1	20908	MI	EET ALB	02/17/25 17:25
Total/NA	Prep	300_Prep			20800	RC	EET ALB	02/13/25 15:00
Total/NA	Analysis	300.0		20	20838	EH	EET ALB	02/14/25 14:49

Laboratory References:

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

Accreditation/Certification Summary

Client: Hilcorp Energy
Project/Site: SJ 30 6 Unit 407

Job ID: 885-19876-1

Laboratory: Eurofins Albuquerque

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

Authority	Program	Identification Number	Expiration Date
New Mexico	State	NM9425, NM0901	02-26-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
300.0	300_Prep	Solid	Chloride
8015M/D	5030C	Solid	Gasoline Range Organics [C6 - C10]
8015M/D	SHAKE	Solid	Diesel Range Organics [C10-C28]
8015M/D	SHAKE	Solid	Motor Oil Range Organics [C28-C40]
8021B	5030C	Solid	Benzene
8021B	5030C	Solid	Ethylbenzene
8021B	5030C	Solid	Toluene
8021B	5030C	Solid	Xylenes, Total

Oregon	NELAP	NM100001	02-25-25

Released to Imaging: 5/9/2025 3:38:34 PM
Received by OCD: 4/21/2025 1:26:36 PM

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: SJ 30 6 Unit 407

Project #:

Project Manager: Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(including CF): 2.3+0=2.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

885-19876 COC

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
2-11	1010	soil	S-1 0-6"	4 oz jar	cool	
	1020		S-1 1-2'			
	1030		S-2 0-6"			
	1040		S-2 1-2'			
	1050		S-3 0-6"			
	1100		S-3 1-2'			
	1110		S-4 0-6"			
	1120		S-4 1-2'			
	1130		S-5 0-6"			
	1140		S-5 1-2'			
	1150		S-6 0-6"			
	1200		S-6 1-2'			

Analysis Request

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	Cl, ~~F~~, ~~Br~~, ~~NO_3~~, ~~NO_2~~, ~~PO_4~~, ~~SO_4~~	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
✓	✓					✓			

Date	Time	Relinquished by	Received by	Via	Date	Time
2/12/25	1644				2/12/25	1644
2/12/25	1940			Courier	2/13/25	6:30

Remarks:

pg 1 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Released to Imaging: 5/9/2025 3:38:34 PM
Received by OCD: 4/21/2025 1:26:36 PM

Chain-of-Custody Record

Client: Hilcorp

Mailing Address:

Phone #:

email or Fax#: brandon.sinclair@hilcorp.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name: SJ 30 6 Unit 407

Project #:

Project Manager: Kate Kaufman

Sampler: Brandon Sinclair

On Ice: ☑ Yes ☐ No 409

# of Coolers: 1

Cooler Temp(including CF): 2.3+0=2.3 (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	BTEX / MIBE / 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	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
2-11	1210	soil	S-7 0-6"	4 oz jar	cool		✓	✓					✓			
"	1220	"	S-7 1-2'	"	"		"	"					"			
"	1230	"	S-8 0-6"	"	"		"	"					"			
"	1240	"	S-8 1-2'	"	"		"	"					"			

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Via.	Date	Time
2/12/25	1644				2/12/25	1644
Date:	Time:	Relinquished by	Received by:	Via: courier	Date	Time
2/12/25	1740				2/13/25	6:30

Remarks:

Pg 2 of 2

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories This serves as notice of this possibility Any sub-contracted data will be clearly notated on the analytical report.

Login Sample Receipt Checklist

Client: Hilcorp Energy Job Number: 885-19876-1

Login Number: 19876 **List Source: Eurofins Albuquerque**
List Number: 1
Creator: Casarrubias, Tracy

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	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	

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 453849

QUESTIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	**nAPP2502953998**
Incident Name	**NAPP2502953998 SAN JUAN 30-6 #407 @ 30-039-24527**
Incident Type	**Produced Water Release**
Incident Status	**Remediation Closure Report Received**
Incident Well	**[30-039-24527] SAN JUAN 30 6 UNIT #407**

Location of Release Source	
Please answer all the questions in this group.	
Site Name	SAN JUAN 30-6 #407
Date Release Discovered	01/28/2025
Surface Owner	State

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: Equipment Failure | Valve | Produced Water | Released: 20 BBL | Recovered: 20 BBL | Lost: 0 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.*

Sante Fe Main Office
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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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	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	**No**
Reasons why this would be considered a submission for a notification of a major release	*Unavailable.*
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response	
The responsible party must undertake the following actions immediately unless they could create a 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.

I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/21/2025

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	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 75 and 100 (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 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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 1000 (ft.) and ½ (mi.)
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 1000 (ft.) and ½ (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 contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been fully delineated		Yes
Was this release entirely contained within a lined containment area		No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride	(EPA 300.0 or SM4500 Cl B)	480
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence		02/11/2025
On what date will (or did) the final sampling or liner inspection occur		02/11/2025
On what date will (or was) the remediation complete(d)		02/11/2025
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		0
What is the estimated volume (in cubic yards) that will be remediated		0
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.		

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
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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 (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	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.)	*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)	Yes
Other Non-listed Remedial Process. Please specify	No remediation needed
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.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/21/2025
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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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	**428151**
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	**02/12/2025**
What was the (estimated) number of samples that were to be gathered	**8**
What was the sampling surface area in square feet	**1650**

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	**Yes**
Was this release entirely contained within a lined containment area	**No**
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	0
What was the total volume (cubic yards) remediated	0
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)	Not applicable

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	Name: Stuart Hyde Title: Senior Geologist Email: shyde@ensolum.com Date: 04/21/2025

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QUESTIONS (continued)

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	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

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CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 453849
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	This Remediation Closure Report is approved. Areas reasonably needed for production or subsequent drilling operations will need to be reclaimed and revegetated as soon as they are no longer reasonably needed. A report for reclamation and revegetation will need to be submitted and approved prior to this incident receiving the final status of "Restoration Complete".	5/9/2025