



February 23, 2024

New Mexico Oil Conservation Division

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

Re: Remediation Report and Closure Request

San Juan 29-6 Unit 61M
Rio Arriba County, New Mexico
Hilcorp Energy Company
NMOCD Incident Number: nAPP2333159777

To Whom it May Concern:

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

SITE BACKGROUND

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

SITE CHARACTERIZATION

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

GEOLOGY AND HYDROGEOLOGY

The Site is located in Tertiary (Eocene) age San Jose Formation and is underlain by the Nacimiento Geologic Formation. In the report titled "*Hydrogeology and Water Resources of San Juan Basin, New Mexico*" (Stone, et. al., 1983), the San Jose Formation is composed of interbedded sandstones and mudstones and varies in thickness from less than 200 feet to about 2,700 feet. The hydrologic properties of the San Jose Formation are largely untested. Where sufficient yield is present, the primary use of water from this Formation is for domestic and/or livestock supply.

POTENTIAL SENSITIVE RECEPTORS

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

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

The closest water well is located approximately 3,280 feet west northwest of the Site (NMOSE well permit SJ-03573); however, depth to water information is not provided in the NMOSE database. The closest water well to the Site with depth to water information is NMOSE well SJ-03809-POD1 (Appendix B), located approximately 3,400 feet northwest of the Site. This well indicates the groundwater is approximately 260 feet below ground surface (bgs). The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake, and greater than 300 feet from a wetland. No wellhead protection areas, springs, or domestic/stock wells are located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area not designated as high potential karst by the Bureau of Land Management). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site. A Site receptor map is shown on Figure 1.

SITE CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) as a combination of gasoline range organics (GRO), diesel range organics (DRO), and motor oil range organics (MRO): 2,500 mg/kg
- GRO+DRO: 1,000 mg/kg
- Chloride: 20,000 mg/kg

DELINEATION AND EXCAVATION SOIL SAMPLING ACTIVITIES

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

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

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

CLOSURE REQUEST

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

REFERENCES

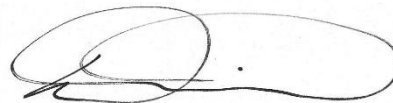
Stone, W.; Lyford, F.; Frenzel, P.; Mizell, N.; and Padgett, E. (1983). *Hydrogeology and Water Resources of San Juan Basin, New Mexico*. Socorro: New Mexico Bureau of Mines and Mineral Resources.

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

Sincerely,
Ensolum, LLC



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



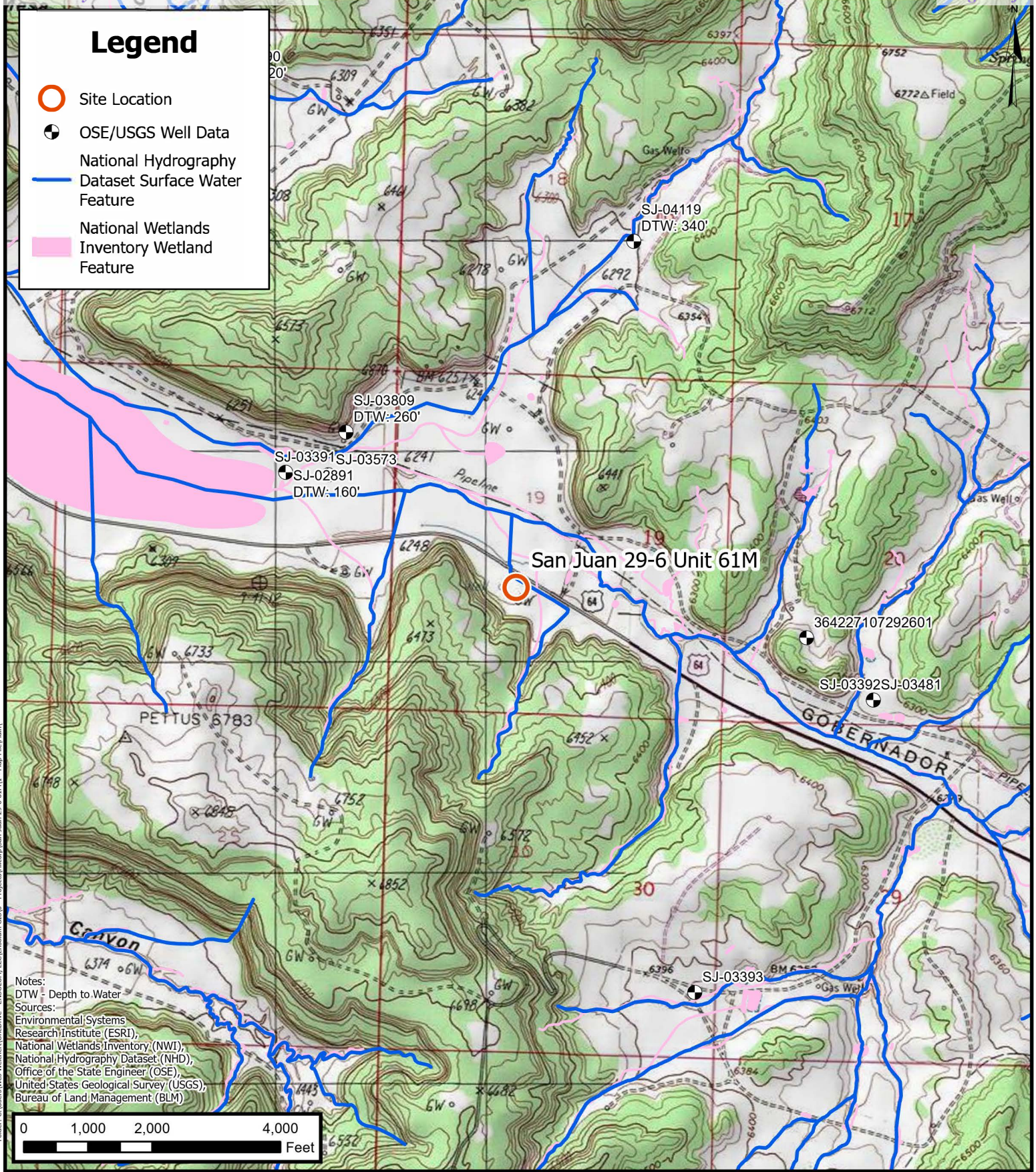
Daniel R. Moir, PG
Senior Managing Geologist
(303) 887-2946
dmoir@ensolum.com

Attachments:

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



FIGURES



ENSOLUM
Environmental, Engineering and
Hydrogeologic Consultants

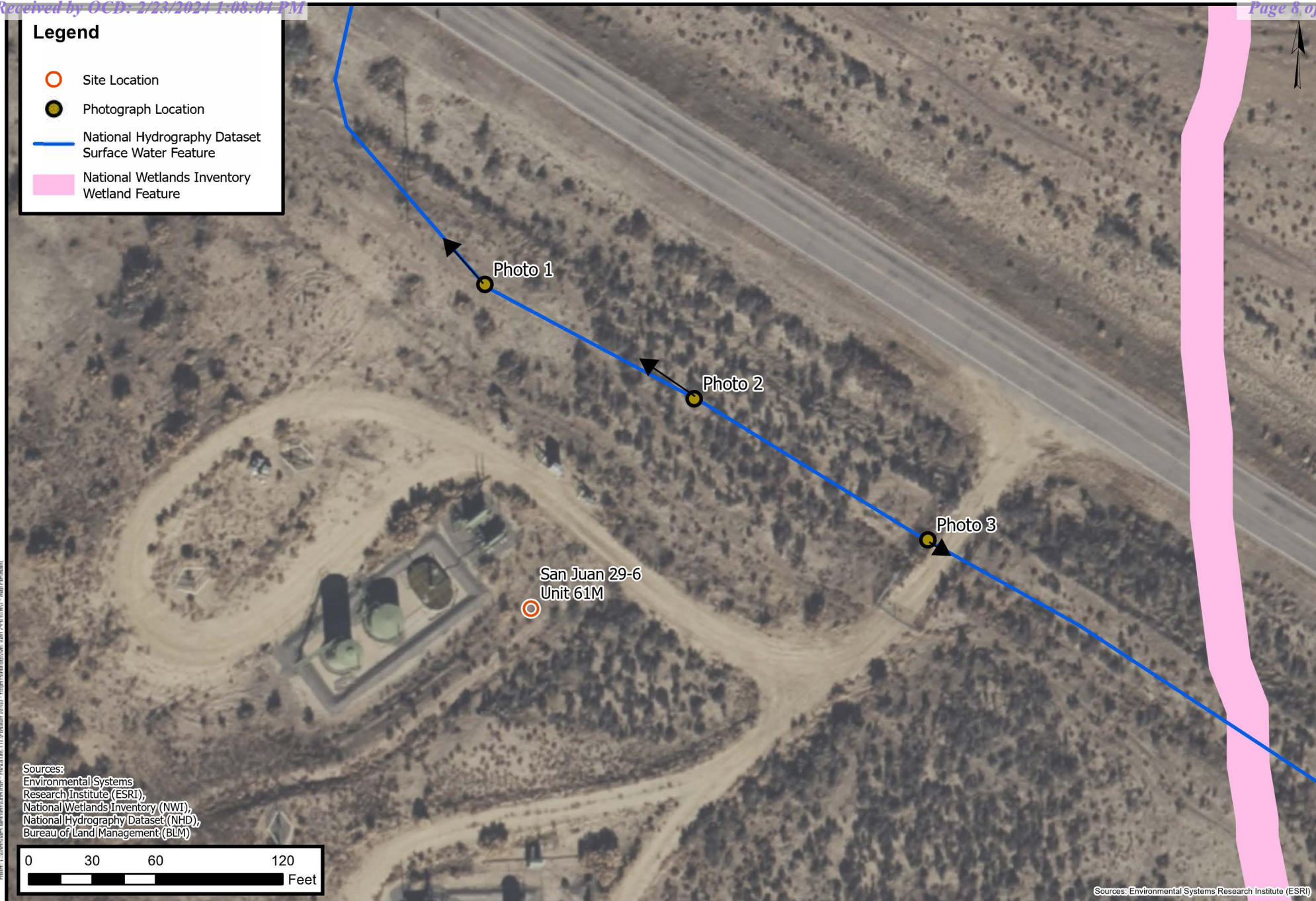
Site Receptor Map
Hilcorp Energy Company
San Juan 29-6 Unit 61M
Incident Number: nAPP233315977
Unit K, Sec 19, T29N, R06W
Rio Arriba County, New Mexico, United States

FIGURE
1



Field Verified Site Receptors

Hilcorp Energy Company
San Juan 29-6 Unit 61M
Incident Number: nAPP2333159777
Unit K, Sec 19, T29N, R06W
Rio Arriba County, New Mexico, United States

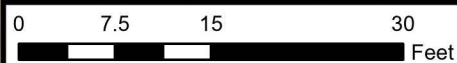
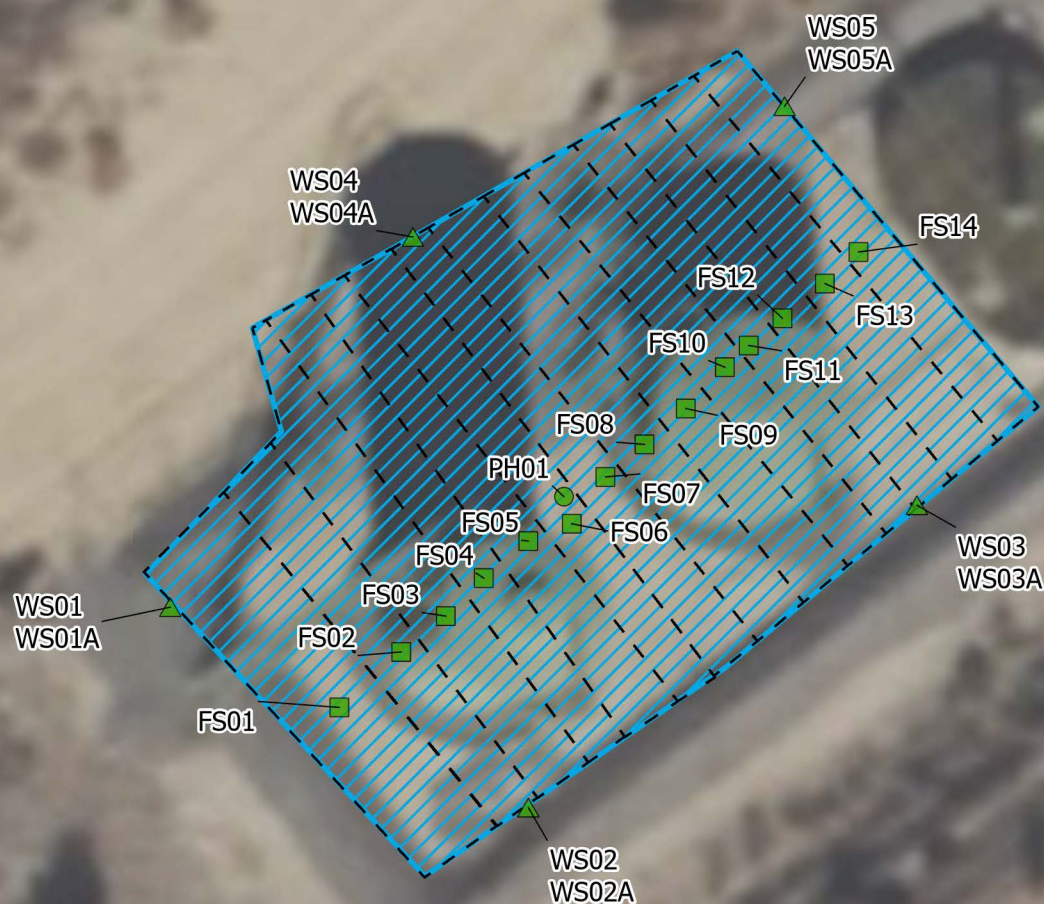


Photograph Locations

Hilcorp Energy Company
 San Juan 29-6 Unit 61M
 Incident Number: nAPP2333159777
 Unit K, Sec 19, T29N, R06W
 Rio Arriba County, New Mexico, United States

Legend

- Pothole Soil Sample in Compliance with Closure Criteria
- 5-Point Composite Floor Soil Sample in Compliance with Closure Criteria
- ▲ Sidewall Soil Sample in Compliance with Closure Criteria
- 200 Square Foot Sampling Grid
- Excavation Extent

**Excavation Soil Sample Results**

Hilcorp Energy Company
San Juan 29-6 Unit 61M
Incident Number: nAPP2333159777
Unit K, Sec 19, T29N, R06W
Rio Arriba County, New Mexico, United States



TABLES



TABLE 1 EXCAVATION SOIL SAMPLE ANALYTICAL RESULTS San Juan 29-6 Unit 61M Hilcorp Energy Company Rio Arriba County, New Mexico													
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	TPH GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release			10	NE	NE	NE	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples													
SS01	12/12/2023	8.0	<0.021	<0.042	<0.042	<0.084	<0.084	<4.2	<8.9	<45	<8.9	<45	<60
Excavation Floor Composite Soil Samples													
FS01	1/30/2024	8.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.5	<48	<9.5	<48	200
FS02	1/30/2024	8.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.8	<49	<9.8	<49	270
FS03	1/30/2024	8.0	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.3	<46	<9.3	<46	330
FS04	1/30/2024	8.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	340
FS05	1/30/2024	8.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.4	<47	<9.4	<47	530
FS06	1/30/2024	8.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.4	<47	<9.4	<47	370
FS07	2/1/2024	8.0	<0.024	<0.047	<0.047	<0.095	<0.095	<4.7	<9.6	<48	<9.6	<48	180
FS08	2/1/2024	8.0	0.091	0.43	<0.049	0.39	0.911	<4.9	<9.0	<45	<9.0	<45	150
FS09	2/1/2024	8.0	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	140
FS10	2/1/2024	8.0	<0.024	<0.048	<0.048	<0.096	<0.096	<4.8	<9.1	<45	<9.1	<45	170
FS11	2/1/2024	8.0	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<8.9	<45	<8.9	<45	270
FS12	2/1/2024	8.5	0.047	0.24	<0.048	0.39	0.677	<4.8	<9.4	<47	<9.4	<47	100
FS13	2/1/2024	8.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.1	<46	<9.1	<46	210
FS14	2/1/2024	8.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.1	<46	<9.1	<46	190
Excavation Sidewall Composite Soil Samples													
WS01	1/30/2024	0 - 4	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<9.6	<48	<9.6	<48	<60
WS01A	1/30/2024	4 - 8	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<9.5	<47	<9.5	<47	<60
WS02	1/30/2024	0 - 4	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	<9.8	<49	<9.8	<49	<60
WS02A	1/30/2024	4 - 8	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<9.5	<47	<9.5	<47	<60
WS03	1/30/2024	0 - 4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.8	<49	<9.8	<49	<60
WS03A	1/30/2024	4 - 8	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<9.5	<47	<9.5	<47	<60
WS04	1/30/2024	0 - 4	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	<9.3	<47	<9.3	<47	<60
WS04A	1/30/2024	4 - 8	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.4	<47	<9.4	<47	<60
WS05	2/1/2024	0 - 4	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<9.6	<48	<9.6	<48	<60
WS05A	2/1/2024	4 - 8.5	<0.023	<0.047	<0.047	<0.094	<0.094	<4.7	<8.7	<44	<8.7	<44	<60

Notes:

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

DRO: Diesel Range Organics
GRO: Gasoline Range Organics
MRO: Motor Oil Range Organics
TPH: Total Petroleum Hydrocarbon
< : indicates result less than the stated laboratory reporting limit (RL)



APPENDIX A

Photographic Log

PROJECT PHOTOGRAPHS
San Juan 29-6 Unit 61M
Rio Arriba County, New Mexico
Hilcorp Energy Company

Photograph 1

USGS "Blue Line" northwest of the well pad, looking northwest.



Photograph 2

USGS "Blue Line" north of the well pad, looking northwest.



PROJECT PHOTOGRAPHS
San Juan 29-6 Unit 61M
Rio Arriba County, New Mexico
Hilcorp Energy Company

Photograph 3

USGS "Blue Line" northeast of the well pad near the access road, looking southeast.



Photograph 4

Final excavation extent, looking south.



PROJECT PHOTOGRAPHS
San Juan 29-6 Unit 61M
Rio Arriba County, New Mexico
Hilcorp Energy Company

Photograph 5

Final excavation extent, looking north.



Photograph 6

Final excavation extent, looking northwest.





APPENDIX B

NMOSE Well Record & Log – SJ-03809



WELL RECORD & LOG
OFFICE OF THE STATE ENGINEER
www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) 1				OSE FILE NUMBER(S) SJ-3809				
	WELL OWNER NAME(S) Richard Hodgson				PHONE (OPTIONAL)				
	WELL OWNER MAILING ADDRESS 9355 Highway 64				CITY Blanco		STATE N.M.	ZIP 87412	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE	MINUTES 36	SECONDS 42 58.40 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
		LONGITUDE	107	30 55.40 W					
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Gobanador									
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) SW 1/4	(40 ACRE) NE 1/4	(160 ACRE) NE 1/4	SECTION 24	TOWNSHIP 29	<input checked="" type="checkbox"/> NORTH <input type="checkbox"/> SOUTH	RANGE 07	<input type="checkbox"/> EAST <input checked="" type="checkbox"/> WEST
	SUBDIVISION NAME N/A				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY N/A				MAP NUMBER		TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER 1508		NAME OF LICENSED DRILLER Bill Hargis			NAME OF WELL DRILLING COMPANY Hargis Drilling			
	DRILLING STARTED 9/2/08		DRILLING ENDED 9/10/08		DEPTH OF COMPLETED WELL (FT) 500	BORE HOLE DEPTH (FT) 520	DEPTH WATER FIRST ENCOUNTERED (FT) 260		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input type="checkbox"/> DRY HOLE <input checked="" type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT)			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD <input type="checkbox"/> ADDITIVES - SPECIFY:								
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:								
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	0 22		8"	24# st&c steel	8rd	7.25	.25	none	
	0 500		6.75	pvc Sch 40	tight lock	4.75	.25	1/8	
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)				
	FROM	TO							
	260 270		10	Blue shale	4				
	295 300		5	Yellow Sandstone	4				
	340 342		2	multi colored sand	2				
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA Circulated out with air compressor					TOTAL ESTIMATED WELL YIELD (GPM) 10				

FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)	
FILE NUMBER	SJ-3809	POD NUMBER	TRN NUMBER
LOCATION	29N.07W.24.773		PAGE 1 OF 2

STATE ENGINEER OFFICE
ALBUQUERQUE, NEW MEXICO

2008 DEC -5 PM 3:07

2008 AUG 27 PM 3:09
REVISED
STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

2008 AUG 22 PM 3:08

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO

5. SEAL AND PUMP	TYPE OF PUMP: <input checked="" type="checkbox"/> SUBMERSIBLE <input type="checkbox"/> JET <input type="checkbox"/> NO PUMP - WELL NOT EQUIPPED <input type="checkbox"/> TURBINE <input type="checkbox"/> CYLINDER <input type="checkbox"/> OTHER - SPECIFY:						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		200	500				

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO			<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	0	60	60	Sand & Grey Clay overbrden	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	60	110	50	Yellow Sandstone	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	110	180	70	Blue Shale & Sands	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	180	260	80	Sand & silt	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	260	270	10	Blue Shale & Multi colored Sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	270	295	25	Yellow Sandstone	<input type="checkbox"/> YES	<input type="checkbox"/> NO
	295	300	5	Blue Shale & Sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	300	340	40	Gray Clay	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
	340	342	2	Multi Colored Sand	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
	342	500	158	Sand & Gray Shale	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO
					<input type="checkbox"/> YES	<input type="checkbox"/> NO
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL					

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: <input checked="" type="checkbox"/> BAILER <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> OTHER - SPECIFY:
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	ADDITIONAL STATEMENTS OR EXPLANATIONS:	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	<div><div>Bill Hargis</div><div>SIGNATURE OF DRILLER</div></div>	<div><div>9/27/08</div><div>DATE</div></div>

FOR USE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)	
FILE NUMBER	SJ-3009	POD NUMBER	TRN NUMBER
LOCATION	29N. 07W. 24. 223		PAGE 2 OF 2

STATE ENGINEER OFFICE
ALBUQUERQUE, NEW MEXICO

2008 DEC -5 PM 3: 07

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
REVISED
2008 AUG 27 PM 3: 09

STATE ENGINEER OFFICE
AZTEC, NEW MEXICO
2008 AUG 22 PM 3: 08



APPENDIX C

Agency Sampling Notifications

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

[**EXTERNAL EMAIL**]

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

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

The sampling event is expected to take place:

When: 12/12/2023 @ 10:00

Where: K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

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

Additional Instructions: Site coordinates: 36.709348, -107.506598

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

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

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

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

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

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

[**EXTERNAL EMAIL**]

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

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

The sampling event is expected to take place:

When: 01/30/2024 @ 08:00

Where: K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

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

Additional Instructions: Site coordinates: 36.709348, -107.506598

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

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

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

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

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

[**EXTERNAL EMAIL**]

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

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

The sampling event is expected to take place:

When: 02/01/2024 @ 09:00

Where: K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

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

The remedial excavation is currently ongoing at the site. Excavation will be continuing on February 1, 2024 in order to remove the remaining impacted soil and collect confirmation samples. We are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Thursday February 1, 2024 beginning at 9 AM.

Additional Instructions: Site coordinates: 36.709348, -107.506598

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

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

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

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

From: [Velez, Nelson, EMNRD](#)
To: [Stuart Hyde](#)
Cc: [Samantha Grabert](#)
Subject: Re: [EXTERNAL] FW: The Oil Conservation Division (OCD) has accepted the application, Application ID: 309653
Date: Wednesday, January 31, 2024 7:19:47 AM
Attachments: [image001.png](#)
[image002.png](#)
[image003.png](#)
[image004.png](#)
[Outlook-fp00qwf0.png](#)

[**EXTERNAL EMAIL**]

Good morning Stuart,

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

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

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

Regards,

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



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

Application ID: 309653

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

Nelson,

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

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



Stuart Hyde, PG

Senior Geologist

970-903-1607

Ensolum, LLC

in f 

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>

Sent: Tuesday, January 30, 2024 3:38 PM

To: Stuart Hyde <shyde@ensolum.com>

Subject: The Oil Conservation Division (OCD) has accepted the application, Application ID: 309653

[**EXTERNAL EMAIL**]

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

The sampling event is expected to take place:

When: 02/01/2024 @ 09:00

Where: K-19-29N-06W 1975 FSL 1790 FWL (36.7093582,-107.5072098)

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

The remedial excavation is currently ongoing at the site. Excavation will be continuing on February 1, 2024 in order to remove the remaining impacted soil and collect confirmation samples. We are requesting a variance of the 2 business day sampling notification requirement set forth in 19.15.29.12(D)(1)(a) in order to collect confirmation samples on Thursday February 1, 2024 beginning at 9 AM.

Additional Instructions: Site coordinates: 36.709348, -107.506598

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

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

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

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



APPENDIX D

Laboratory Analytical Reports



Environment Testing

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

December 21, 2023

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

RE: SJ 29 6 61M

OrderNo.: 2312722

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 1 sample(s) on 12/13/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2312722

Date Reported: 12/21/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY

Client Sample ID: SS01

Project: SJ 29 6 61M

Collection Date: 12/12/2023 11:00:00 AM

Lab ID: 2312722-001

Matrix: MEOH (SOIL)

Received Date: 12/13/2023 6:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	12/13/2023 11:13:51 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/13/2023 11:13:51 AM
Surr: DNOP	86.5	69-147		%Rec	1	12/13/2023 11:13:51 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	12/13/2023 11:18:54 AM
Surr: BFB	95.2	15-244		%Rec	1	12/13/2023 11:18:54 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.021		mg/Kg	1	12/13/2023 11:18:54 AM
Toluene	ND	0.042		mg/Kg	1	12/13/2023 11:18:54 AM
Ethylbenzene	ND	0.042		mg/Kg	1	12/13/2023 11:18:54 AM
Xylenes, Total	ND	0.084		mg/Kg	1	12/13/2023 11:18:54 AM
Surr: 4-Bromofluorobenzene	97.5	39.1-146		%Rec	1	12/13/2023 11:18:54 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	12/13/2023 12:01:12 PM

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312722

21-Dec-23

Client: HILCORP ENERGY

Project: SJ 29 6 61M

Sample ID: MB-79348		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 79348		RunNo: 101805						
Prep Date: 12/13/2023		Analysis Date: 12/13/2023		SeqNo: 3754365			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79348		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 79348		RunNo: 101805						
Prep Date: 12/13/2023		Analysis Date: 12/13/2023		SeqNo: 3754366			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312722

21-Dec-23

Client: HILCORP ENERGY

Project: SJ 29 6 61M

Sample ID: 2312722-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: SS01	Batch ID: 79345	RunNo: 101807
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3752753 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	42	8.8 43.82 0 96.9 54.2 135
Surr: DNOP	4.1	4.382 94.7 69 147

Sample ID: 2312722-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: SS01	Batch ID: 79345	RunNo: 101807
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3752754 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	45	9.7 48.59 0 93.1 54.2 135 6.36 29.2
Surr: DNOP	4.6	4.859 95.2 69 147 0 0

Sample ID: LCS-79345	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79345	RunNo: 101807
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3752755 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	43	10 50.00 0 85.0 61.9 130
Surr: DNOP	4.2	5.000 83.8 69 147

Sample ID: MB-79345	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79345	RunNo: 101807
Prep Date: 12/13/2023	Analysis Date: 12/13/2023	SeqNo: 3752756 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND	10
Motor Oil Range Organics (MRO)	ND	50
Surr: DNOP	8.2	10.00 82.0 69 147

Sample ID: MB-79261	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 79261	RunNo: 101833
Prep Date: 12/8/2023	Analysis Date: 12/13/2023	SeqNo: 3754503 Units: %Rec
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	11	10.00 109 69 147

Sample ID: LCS-79261	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 79261	RunNo: 101833
Prep Date: 12/8/2023	Analysis Date: 12/13/2023	SeqNo: 3754504 Units: %Rec
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312722

21-Dec-23

Client: HILCORP ENERGY

Project: SJ 29 6 61M

Sample ID: LCS-79261	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 79261		RunNo: 101833							
Prep Date: 12/8/2023	Analysis Date: 12/13/2023		SeqNo: 3754504		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	69	147			

Sample ID: MB-79326	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 79326		RunNo: 101809							
Prep Date: 12/12/2023	Analysis Date: 12/13/2023		SeqNo: 3754791		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		82.3	69	147			

Sample ID: LCS-79326	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 79326		RunNo: 101809							
Prep Date: 12/12/2023	Analysis Date: 12/13/2023		SeqNo: 3754792		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.1	69	147			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312722

21-Dec-23

Client: HILCORP ENERGY

Project: SJ 29 6 61M

Sample ID: 2.5UG GRO LCS	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752235		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.1	70	130			
Surr: BFB	2100		1000		209	15	244			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752237		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.8	15	244			

Sample ID: 2312722-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SS01	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/14/2023		SeqNo: 3753440		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.2	20.92	0	86.2	70	130			
Surr: BFB	1700		836.8		204	15	244			

Sample ID: 2312722-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: SS01	Batch ID: GS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/14/2023		SeqNo: 3753441		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	4.2	20.92	0	85.5	70	130	0.839	20	
Surr: BFB	1700		836.8		203	15	244	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2312722

21-Dec-23

Client: HILCORP ENERGY

Project: SJ 29 6 61M

Sample ID: 100NG BTEX LCS	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: BS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752248		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.9	70	130			
Toluene	0.92	0.050	1.000	0	91.7	70	130			
Ethylbenzene	0.92	0.050	1.000	0	92.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	93.1	70	130			
Surr: 4-Bromofluorobenzene	1.0		1.000		102	39.1	146			

Sample ID: mb	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: BS101798		RunNo: 101798							
Prep Date:	Analysis Date: 12/13/2023		SeqNo: 3752249		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		101	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
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Environment Testin

Eurofins Environment Testing South
Central, LLC4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2312722

RcptNo: 1

Received By: Tracy Casarrubias

12/13/2023 6:30:00 AM

Completed By: Tracy Casarrubias

12/13/2023 6:41:30 AM

Reviewed By: *Jm 12/13/23*Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of >0° C to 6.0°C Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: *TMC 12/13/23*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: Mailing address and phone number are missing on COC- TMC 12/13/23

16. Additional remarks:

17. Cooler Information

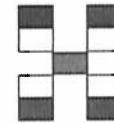
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes	<i>Morty</i> <i>12/13/23</i>	<i>409</i>	

Chain-of-Custody Record

Client: Hilcorp
Samantha Grabert
Mailing Address: _____

Phone #: _____
email or Fax#: Samantha.Grabert@hilcorp.com
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:	
<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush <u>Same Day 12/13</u>
Project Name: <u>SJ 29-6 #61M</u>	
Project #:	
Project Manager: <u>Stuart Hyde - Ensolum</u>	
Sampler: <u>E. Carroll</u>	
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>40gi</u> <u>mort</u>
# of Coolers: <u>1</u>	
Cooler Temp (Including CF): <u>0.8+0.1=0.9</u> (°C)	



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

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 noted on the analytical report.



Environment Testing

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

February 15, 2024

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

RE: SJ 29 6 61 M

OrderNo.: 2402084

Dear Samantha Grabert:

Eurofins Environment Testing South Central, LLC received 24 sample(s) on 2/2/2024 for the analyses presented in the following report.

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

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", with a stylized flourish at the end.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

CLIENT: HILCORP ENERGY

Client Sample ID: FS01

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 1:30:00 PM

Lab ID: 2402084-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/5/2024 5:38:47 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/5/2024 5:38:47 PM
Surr: DNOP	89.8	61.2-134		%Rec	1	2/5/2024 5:38:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2024 5:53:00 AM
Surr: BFB	107	15-244		%Rec	1	2/7/2024 5:53:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/7/2024 5:53:00 AM
Toluene	ND	0.048		mg/Kg	1	2/7/2024 5:53:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2024 5:53:00 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/7/2024 5:53:00 AM
Surr: 4-Bromofluorobenzene	96.4	39.1-146		%Rec	1	2/7/2024 5:53:00 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	200	30		mg/Kg	20	2/12/2024 11:54:02 AM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS02

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 1:35:00 PM

Lab ID: 2402084-002

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/5/2024 5:50:45 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/5/2024 5:50:45 PM
Surr: DNOP	88.1	61.2-134		%Rec	1	2/5/2024 5:50:45 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 6:15:00 AM
Surr: BFB	108	15-244		%Rec	1	2/7/2024 6:15:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/7/2024 6:15:00 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2024 6:15:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 6:15:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/7/2024 6:15:00 AM
Surr: 4-Bromofluorobenzene	98.0	39.1-146		%Rec	1	2/7/2024 6:15:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	270	60		mg/Kg	20	2/12/2024 4:16:41 PM

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 2402084

Date Reported: 2/15/2024

CLIENT: HILCORP ENERGY

Client Sample ID: FS03

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 1:40:00 PM

Lab ID: 2402084-003

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: JKU
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/5/2024 6:02:37 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/5/2024 6:02:37 PM
Surr: DNOP	90.2	61.2-134		%Rec	1	2/5/2024 6:02:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 6:37:00 AM
Surr: BFB	105	15-244		%Rec	1	2/7/2024 6:37:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/7/2024 6:37:00 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2024 6:37:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 6:37:00 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2024 6:37:00 AM
Surr: 4-Bromofluorobenzene	97.0	39.1-146		%Rec	1	2/7/2024 6:37:00 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	330	60		mg/Kg	20	2/12/2024 4:29:02 PM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS04

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 1:45:00 PM

Lab ID: 2402084-004

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS05

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 1:50:00 PM

Lab ID: 2402084-005

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/6/2024 6:11:44 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/6/2024 6:11:44 PM
Surr: DNOP	102	61.2-134		%Rec	1	2/6/2024 6:11:44 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/6/2024 10:34:31 PM
Surr: BFB	109	15-244		%Rec	1	2/6/2024 10:34:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/6/2024 10:34:31 PM
Toluene	ND	0.050		mg/Kg	1	2/6/2024 10:34:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/6/2024 10:34:31 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/6/2024 10:34:31 PM
Surr: 4-Bromofluorobenzene	93.0	39.1-146		%Rec	1	2/6/2024 10:34:31 PM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	530	60		mg/Kg	20	2/12/2024 5:18:25 PM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS06

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 1:55:00 PM

Lab ID: 2402084-006

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS07

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:00:00 AM

Lab ID: 2402084-007

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS08

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:05:00 AM

Lab ID: 2402084-008

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	2/6/2024 7:22:36 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/6/2024 7:22:36 PM
Surr: DNOP	103	61.2-134		%Rec	1	2/6/2024 7:22:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 12:33:25 AM
Surr: BFB	114	15-244		%Rec	1	2/7/2024 12:33:25 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	0.091	0.024		mg/Kg	1	2/7/2024 12:33:25 AM
Toluene	0.43	0.049		mg/Kg	1	2/7/2024 12:33:25 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 12:33:25 AM
Xylenes, Total	0.39	0.097		mg/Kg	1	2/7/2024 12:33:25 AM
Surr: 4-Bromofluorobenzene	94.1	39.1-146		%Rec	1	2/7/2024 12:33:25 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	150	60		mg/Kg	20	2/12/2024 6:20:08 PM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS09

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:10:00 AM

Lab ID: 2402084-009

Matrix: SOIL

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

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

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

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

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CLIENT: HILCORP ENERGY

Client Sample ID: FS10

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:15:00 AM

Lab ID: 2402084-010

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/6/2024 8:09:51 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/6/2024 8:09:51 PM
Surr: DNOP	107	61.2-134		%Rec	1	2/6/2024 8:09:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2024 1:20:57 AM
Surr: BFB	109	15-244		%Rec	1	2/7/2024 1:20:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2024 1:20:57 AM
Toluene	ND	0.048		mg/Kg	1	2/7/2024 1:20:57 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2024 1:20:57 AM
Xylenes, Total	ND	0.096		mg/Kg	1	2/7/2024 1:20:57 AM
Surr: 4-Bromofluorobenzene	92.7	39.1-146		%Rec	1	2/7/2024 1:20:57 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	170	61		mg/Kg	20	2/12/2024 6:44:48 PM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS11

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:20:00 AM

Lab ID: 2402084-011

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS12

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:25:00 AM

Lab ID: 2402084-012

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: FS13

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:30:00 AM

Lab ID: 2402084-013

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/6/2024 9:44:18 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/6/2024 9:44:18 PM
Surr: DNOP	110	61.2-134		%Rec	1	2/6/2024 9:44:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2024 2:32:04 AM
Surr: BFB	107	15-244		%Rec	1	2/7/2024 2:32:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/7/2024 2:32:04 AM
Toluene	ND	0.050		mg/Kg	1	2/7/2024 2:32:04 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2024 2:32:04 AM
Xylenes, Total	ND	0.10		mg/Kg	1	2/7/2024 2:32:04 AM
Surr: 4-Bromofluorobenzene	91.4	39.1-146		%Rec	1	2/7/2024 2:32:04 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	210	60		mg/Kg	20	2/13/2024 10:07:44 AM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 13 of 31
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	PQL	Practical Quantitative Limit	RL	Reporting Limit	
	S	% Recovery outside of standard limits. If undiluted results may be estimated.			

CLIENT: HILCORP ENERGY

Client Sample ID: FS14

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 11:35:00 AM

Lab ID: 2402084-014

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/6/2024 10:07:51 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/6/2024 10:07:51 PM
Surr: DNOP	94.7	61.2-134		%Rec	1	2/6/2024 10:07:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2024 3:19:22 AM
Surr: BFB	107	15-244		%Rec	1	2/7/2024 3:19:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/7/2024 3:19:22 AM
Toluene	ND	0.050		mg/Kg	1	2/7/2024 3:19:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2024 3:19:22 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/7/2024 3:19:22 AM
Surr: 4-Bromofluorobenzene	90.0	39.1-146		%Rec	1	2/7/2024 3:19:22 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	190	60		mg/Kg	20	2/13/2024 10:20:36 AM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS01

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:00:00 PM

Lab ID: 2402084-015

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS01A

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:05:00 PM

Lab ID: 2402084-016

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS02

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:10:00 PM

Lab ID: 2402084-017

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/6/2024 11:18:37 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/6/2024 11:18:37 PM
Surr: DNOP	96.9	61.2-134		%Rec	1	2/6/2024 11:18:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 4:30:17 AM
Surr: BFB	105	15-244		%Rec	1	2/7/2024 4:30:17 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2024 4:30:17 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2024 4:30:17 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 4:30:17 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/7/2024 4:30:17 AM
Surr: 4-Bromofluorobenzene	88.5	39.1-146		%Rec	1	2/7/2024 4:30:17 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	2/13/2024 10:59:12 AM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS02A

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:15:00 PM

Lab ID: 2402084-018

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/6/2024 11:42:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/6/2024 11:42:11 PM
Surr: DNOP	84.7	61.2-134		%Rec	1	2/6/2024 11:42:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 4:53:56 AM
Surr: BFB	107	15-244		%Rec	1	2/7/2024 4:53:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/7/2024 4:53:56 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2024 4:53:56 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 4:53:56 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/7/2024 4:53:56 AM
Surr: 4-Bromofluorobenzene	91.8	39.1-146		%Rec	1	2/7/2024 4:53:56 AM
EPA METHOD 300.0: ANIONS						Analyst: SNS
Chloride	ND	60		mg/Kg	20	2/12/2024 8:23:35 PM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS03

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:20:00 PM

Lab ID: 2402084-019

Matrix: SOIL

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

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

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS03A

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:25:00 PM

Lab ID: 2402084-020

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/7/2024 12:29:16 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2024 12:29:16 AM
Surr: DNOP	98.6	61.2-134		%Rec	1	2/7/2024 12:29:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/7/2024 5:41:21 AM
Surr: BFB	105	15-244		%Rec	1	2/7/2024 5:41:21 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/7/2024 5:41:21 AM
Toluene	ND	0.050		mg/Kg	1	2/7/2024 5:41:21 AM
Ethylbenzene	ND	0.050		mg/Kg	1	2/7/2024 5:41:21 AM
Xylenes, Total	ND	0.099		mg/Kg	1	2/7/2024 5:41:21 AM
Surr: 4-Bromofluorobenzene	91.0	39.1-146		%Rec	1	2/7/2024 5:41:21 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	2/13/2024 11:37:49 AM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS04

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:30:00 PM

Lab ID: 2402084-021

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	2/7/2024 12:52:47 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2024 12:52:47 AM
Surr: DNOP	96.9	61.2-134		%Rec	1	2/7/2024 12:52:47 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/7/2024 6:05:03 AM
Surr: BFB	106	15-244		%Rec	1	2/7/2024 6:05:03 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2024 6:05:03 AM
Toluene	ND	0.048		mg/Kg	1	2/7/2024 6:05:03 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/7/2024 6:05:03 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2024 6:05:03 AM
Surr: 4-Bromofluorobenzene	89.8	39.1-146		%Rec	1	2/7/2024 6:05:03 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	2/13/2024 11:18:34 AM

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

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

CLIENT: HILCORP ENERGY

Client Sample ID: WS04A

Project: SJ 29 6 61 M

Collection Date: 1/30/2024 12:35:00 PM

Lab ID: 2402084-022

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	2/7/2024 1:16:17 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/7/2024 1:16:17 AM
Surr: DNOP	99.7	61.2-134		%Rec	1	2/7/2024 1:16:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 6:28:46 AM
Surr: BFB	104	15-244		%Rec	1	2/7/2024 6:28:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2024 6:28:46 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2024 6:28:46 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 6:28:46 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2024 6:28:46 AM
Surr: 4-Bromofluorobenzene	89.9	39.1-146		%Rec	1	2/7/2024 6:28:46 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	2/13/2024 12:04:01 PM

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

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

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **2402084**Date Reported: **2/15/2024**

CLIENT: HILCORP ENERGY

Client Sample ID: WS05

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 1:30:00 PM

Lab ID: 2402084-023

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	2/7/2024 1:39:49 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/7/2024 1:39:49 AM
Surr: DNOP	97.0	61.2-134		%Rec	1	2/7/2024 1:39:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/7/2024 6:52:24 AM
Surr: BFB	111	15-244		%Rec	1	2/7/2024 6:52:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/7/2024 6:52:24 AM
Toluene	ND	0.049		mg/Kg	1	2/7/2024 6:52:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/7/2024 6:52:24 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/7/2024 6:52:24 AM
Surr: 4-Bromofluorobenzene	92.2	39.1-146		%Rec	1	2/7/2024 6:52:24 AM
EPA METHOD 300.0: ANIONS						Analyst: RBC
Chloride	ND	60		mg/Kg	20	2/13/2024 12:49:30 PM

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

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

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CLIENT: HILCORP ENERGY

Client Sample ID: WS05A

Project: SJ 29 6 61 M

Collection Date: 2/1/2024 1:35:00 PM

Lab ID: 2402084-024

Matrix: SOIL

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

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

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402084

15-Feb-24

Client: HILCORP ENERGY
Project: SJ 29 6 61 M

Sample ID: MB-80397	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 80397	RunNo: 103044
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3808985 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-80397	SampType: lcs	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 80397	RunNo: 103044
Prep Date: 2/12/2024	Analysis Date: 2/12/2024	SeqNo: 3808986 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 93.5 90 110

Sample ID: MB-80404	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 80404	RunNo: 103075
Prep Date: 2/12/2024	Analysis Date: 2/13/2024	SeqNo: 3810718 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-80404	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 80404	RunNo: 103075
Prep Date: 2/12/2024	Analysis Date: 2/13/2024	SeqNo: 3810719 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 94.6 90 110

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 25 of 31

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402084

15-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 61 M

Sample ID: LCS-80234	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 80234		RunNo: 102868							
Prep Date: 2/2/2024	Analysis Date: 2/5/2024		SeqNo: 3800879		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	79.6	59.7	135			
Surr: DNOP	4.3		5.000		86.3	61.2	134			

Sample ID: MB-80234	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 80234		RunNo: 102868							
Prep Date: 2/2/2024	Analysis Date: 2/5/2024		SeqNo: 3801344		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.4		10.00		93.7	61.2	134			

Sample ID: MB-80265	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 80265		RunNo: 102881							
Prep Date: 2/5/2024	Analysis Date: 2/5/2024		SeqNo: 3801657		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		104	61.2	134			

Sample ID: LCS-80265	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 80265		RunNo: 102881							
Prep Date: 2/5/2024	Analysis Date: 2/5/2024		SeqNo: 3801658		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	59.7	135			
Surr: DNOP	4.9		5.000		97.7	61.2	134			

Sample ID: MB-80285	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 80285		RunNo: 102923							
Prep Date: 2/6/2024	Analysis Date: 2/6/2024		SeqNo: 3803645		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		101	61.2	134			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402084

15-Feb-24

Client: HILCORP ENERGY
Project: SJ 29 6 61 M

Sample ID: LCS-80285	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 80285	RunNo: 102923								
Prep Date: 2/6/2024	Analysis Date: 2/6/2024	SeqNo: 3803646	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	59.7	135			
Surr: DNOP	4.7		5.000		93.1	61.2	134			

Sample ID: 2402084-004AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS04	Batch ID: 80285	RunNo: 102923								
Prep Date: 2/6/2024	Analysis Date: 2/6/2024	SeqNo: 3803648	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	9.6	48.22	0	108	43.7	136			
Surr: DNOP	4.6		4.822		96.2	61.2	134			

Sample ID: 2402084-004AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: FS04	Batch ID: 80285	RunNo: 102923								
Prep Date: 2/6/2024	Analysis Date: 2/6/2024	SeqNo: 3803649	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.0	45.21	0	111	43.7	136	3.76	31.3	
Surr: DNOP	4.4		4.521		98.4	61.2	134	0	0	

Qualifiers:

- *

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

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

Analyte detected in the associated Method Blank
- E

Above Quantitation Range/Estimated Value
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402084

15-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 61 M

Sample ID: Ics-80264	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 80264			RunNo: 102890						
Prep Date: 2/5/2024	Analysis Date: 2/6/2024			SeqNo: 3802321		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	70	130			
Surr: BFB	2200		1000		216	15	244			

Sample ID: mb-80264	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 80264			RunNo: 102890						
Prep Date: 2/5/2024	Analysis Date: 2/6/2024			SeqNo: 3802322		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		104	15	244			

Sample ID: Ics-80229	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 80229			RunNo: 102909						
Prep Date: 2/2/2024	Analysis Date: 2/6/2024			SeqNo: 3802679		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.2	70	130			
Surr: BFB	2200		1000		215	15	244			

Sample ID: mb-80229	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 80229			RunNo: 102909						
Prep Date: 2/2/2024	Analysis Date: 2/6/2024			SeqNo: 3802680		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		105	15	244			

Sample ID: 2402084-004ams	SampType: MS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: FS04	Batch ID: 80264			RunNo: 102890						
Prep Date: 2/5/2024	Analysis Date: 2/6/2024			SeqNo: 3802952		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	24.88	0	123	70	130			
Surr: BFB	2400		995.0		241	15	244			

Sample ID: 2402084-004amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: FS04	Batch ID: 80264			RunNo: 102890						
Prep Date: 2/5/2024	Analysis Date: 2/6/2024			SeqNo: 3802953		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	31	5.0	24.88	0	123	70	130			
Surr: BFB	2400		995.0		241	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

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

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402084

15-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 61 M

Sample ID: 2402084-004amsd	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: FS04	Batch ID: 80264			RunNo: 102890						
Prep Date: 2/5/2024	Analysis Date: 2/6/2024			SeqNo: 3802953			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	24.85	0	114	70	130	7.49	20	
Surr: BFB	2300		994.0		230	15	244	0	0	

Sample ID: lcs-80257	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch ID: 80257			RunNo: 102936						
Prep Date: 2/5/2024	Analysis Date: 2/7/2024			SeqNo: 3803969			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	70	130			
Surr: BFB	2200		1000		216	15	244			

Sample ID: mb-80257	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch ID: 80257			RunNo: 102936						
Prep Date: 2/5/2024	Analysis Date: 2/7/2024			SeqNo: 3803970			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	15	244			

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402084

15-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 61 M

Sample ID: LCS-80264	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 80264	RunNo: 102890								
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802323	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.025	1.000	0	81.9	70	130			
Toluene	0.83	0.050	1.000	0	82.9	70	130			
Ethylbenzene	0.84	0.050	1.000	0	83.5	70	130			
Xylenes, Total	2.5	0.10	3.000	0	84.5	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	39.1	146			

Sample ID: mb-80264	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 80264	RunNo: 102890								
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802324	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.8	39.1	146			

Sample ID: 2402084-005ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: FS05	Batch ID: 80264	RunNo: 102890								
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802981	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9891	0	97.9	70	130			
Toluene	1.0	0.049	0.9891	0	101	70	130			
Ethylbenzene	1.0	0.049	0.9891	0	104	70	130			
Xylenes, Total	3.1	0.099	2.967	0	104	70	130			
Surr: 4-Bromofluorobenzene	0.92		0.9891		93.5	39.1	146			

Sample ID: 2402084-005amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: FS05	Batch ID: 80264	RunNo: 102890								
Prep Date: 2/5/2024	Analysis Date: 2/6/2024	SeqNo: 3802982	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	0.9970	0	88.3	70	130	9.58	20	
Toluene	0.91	0.050	0.9970	0	91.1	70	130	9.97	20	
Ethylbenzene	0.94	0.050	0.9970	0	94.2	70	130	9.27	20	
Xylenes, Total	2.8	0.10	2.991	0	94.4	70	130	9.28	20	
Surr: 4-Bromofluorobenzene	0.92		0.9970		91.8	39.1	146	0	0	

Qualifiers:

*

Value exceeds Maximum Contaminant Level.

D

Sample Diluted Due to Matrix

H

Holding times for preparation or analysis exceeded

ND

Not Detected at the Reporting Limit

PQL

Practical Quantitative Limit

S

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

B

Analyte detected in the associated Method Blank

E

Above Quantitation Range/Estimated Value

J

Analyte detected below quantitation limits

P

Sample pH Not In Range

RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2402084

15-Feb-24

Client: HILCORP ENERGY

Project: SJ 29 6 61 M

Sample ID: ics-80229	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 80229		RunNo: 102909							
Prep Date: 2/2/2024	Analysis Date: 2/6/2024		SeqNo: 3803025		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.6	70	130			
Toluene	0.90	0.050	1.000	0	89.9	70	130			
Ethylbenzene	0.91	0.050	1.000	0	91.4	70	130			
Xylenes, Total	2.8	0.10	3.000	0	91.9	70	130			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.6	39.1	146			

Sample ID: mb-80229	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 80229		RunNo: 102909							
Prep Date: 2/2/2024	Analysis Date: 2/6/2024		SeqNo: 3803026		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		95.8	39.1	146			

Sample ID: LCS-80257	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 80257		RunNo: 102936							
Prep Date: 2/5/2024	Analysis Date: 2/7/2024		SeqNo: 3803972		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.0	70	130			
Toluene	0.88	0.050	1.000	0	88.3	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.8	70	130			
Xylenes, Total	2.7	0.10	3.000	0	90.7	70	130			
Surr: 4-Bromofluorobenzene	0.90		1.000		90.0	39.1	146			

Sample ID: mb-80257	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 80257		RunNo: 102936							
Prep Date: 2/5/2024	Analysis Date: 2/7/2024		SeqNo: 3803973		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

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



Environment Testin

Eurofins Environment Testing South
Central, LLC

4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: HILCORP ENERGY

Work Order Number: 2402084

RcptNo: 1

Received By: Tracy Casarrubias

2/2/2024 6:30:00 AM

Completed By: Tracy Casarrubias

2/2/2024 7:56:25 AM

Reviewed By: *on 2/2/24 Extra Samples checked by J 2-2-24*Chain of Custody

1. Is Chain of Custody complete? Yes ☐ No ☒ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? Checked by: M 2/2/24*Extra samples on 2/2/24*Special Handling (if applicable)

15. Was client notified of all discrepancies with this order?

Yes ☒No ☐NA ☒Person Notified: Christine W.Date: 2/2/24By Whom: Tracy CasarrubiasVia: ☐ eMail ☒ Phone ☐ Fax ☐ In PersonRegarding: Extra VolumeClient Instructions: Added Extra samples to COC per client - TMC 2/2/24

16. Additional remarks:

Mailing address and phone number are missing on COC- TMC 2/2/24

- 17.
- Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.7	Good	Yes	Morty		

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QUESTIONS

Action 317036

QUESTIONS

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

QUESTIONS

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

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

Incident Details	
Please answer all the questions in this group.	
Incident Type	Oil Release
Did this release result in a fire or is the result of a fire	No
Did this release result in any injuries	No
Has this release reached or does it have a reasonable probability of reaching a watercourse	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	Cause: Equipment Failure Valve Crude Oil Released: 84 BBL Recovered: 0 BBL Lost: 84 BBL.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 9 BBL Recovered: 0 BBL Lost: 9 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 317036

QUESTIONS (continued)

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

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

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	N/A

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: 02/23/2024
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QUESTIONS, Page 3

Action 317036

QUESTIONS (continued)

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

QUESTIONS**Site Characterization**

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

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 500 and 1000 (ft.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 300 and 500 (ft.)
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 300 and 500 (ft.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	None
A 100-year floodplain	Between 1 and 100 (ft.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride	(EPA 300.0 or SM4500 Cl B)	530
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	0
GRO+DRO	(EPA SW-846 Method 8015M)	0
BTEX	(EPA SW-846 Method 8021B or 8260B)	0.9
Benzene	(EPA SW-846 Method 8021B or 8260B)	0.1

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	01/25/2024
On what date will (or did) the final sampling or liner inspection occur	02/01/2024
On what date will (or was) the remediation complete(d)	02/01/2024
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	2315
What is the estimated volume (in cubic yards) that will be remediated	1000

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 4

Action 317036

QUESTIONS (continued)

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

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.)	Yes
Which OCD approved facility will be used for off-site disposal	ENVIROTECH LANDFARM #2 [FEEM0112336756]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed 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: 02/23/2024
--	--

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 317036

QUESTIONS (continued)

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

QUESTIONS

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

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QUESTIONS, Page 6

Action 317036

QUESTIONS (continued)

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

QUESTIONS

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

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	2315
What was the total volume (cubic yards) remediated	1000
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	0
What was the total volume (in cubic yards) reclaimed	0
Summarize any additional remediation activities not included by answers (above)	None

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: 02/23/2024
--	--

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QUESTIONS, Page 7

Action 317036

QUESTIONS (continued)

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

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

Action 317036

CONDITIONS

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

CONDITIONS

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