District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2224144740
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hilcorp Energy Company (Hilcorp)	OGRID 372171
Contact Name Mitch Killough	Contact Telephone 713-757-5247
Contact email mkillough@hilcorp.com	Incident # nAPP2224144740
Contact mailing address 1111 Travis Street, Houston, Texas 77002	

Location of Release Source

Latitude 36.8929138 Longitude -107.7552261
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Seymour 6	Site Type Well
Date Release Discovered: 8/18/2022 @ 08:30am (MT)	API# 30-045-10684

Unit Letter	Section	Township	Range	County
M	14	31N	09W	San Juan

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 20 bbls	Volume Recovered (bbls) 2 bbls
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
On 8/18/2022 at approximately 08:30 am (MT), Hilcorp discovered a 20-bbl release of oil at the Seymour 6. Due to the excessive rainfall in the area, the open-top BGT tank on location overflowed causing the oil in the storage vessel to float up and spill into secondary containment, breach a section of the surrounding berm wall, and eventually enter a dry watercourse located immediately adjacent to the site. Refer to attached initial notification. Upon discovery, Hilcorp began recovery efforts immediately on pad by emptying the remaining fluids in the BGT storage vessel and recovering any possible free product on the pad location with a 3rd party vacuum truck operator. On 8/19/2022, approximately 60 yards of visibly-impacted soils were removed from the site and hauled to a disposal.

The spill amount was determined by operator's monthly tank gauging data.

State of New Mexico
Oil Conservation Division

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Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? Per 19.15.29.7.A, a major release includes an unauthorized release of a volume that may with reasonable probability reach a watercourse. During this event, a portion of the spilled fluids migrated off the pad and entered a dry watercourse located immediately adjacent to the site.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Mitch Killough notified the NMOCD and BLM – FFO via 24-hour email notification on 08/18/2022 at 09:00 am CT.

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.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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

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.

Printed Name: Mitch Killough Title: Environmental Specialist

Signature: _____ Date: 08/31/2022

email: mkillough@hilcorp.com Telephone: 713-757-5247

OCD Only

Received by: _____ Date: _____

Mitch Killough

From:	Mitch Killough
Sent:	Friday, August 19, 2022 9:00 AM
To:	Velez, Nelson, EMNRD; Adeloye, Abiodun A
Cc:	OCD.Enviro@state.nm.us; Matt Henderson
Subject:	Hilcorp Energy Company - 24-Hour Release Notification - Seymour 6

Hi Nelson/Emmanuel.

On 8/18/2022 at approximately 08:30 am (MT), Hilcorp Energy Company (Hilcorp) discovered a 20-bbl release of oil at the Seymour 6 (API: 30-045-10684) in San Juan County, NM (36.89313, -107.75461). Due to the excessive rainfall in the area, the open-top BGT tank on location overflowed causing the oil in the storage vessel to float up and spill into secondary containment, breach a section of the surrounding berm wall, and eventually enter a dry watercourse located immediately adjacent to the site. The unnamed, dry watercourse is considered a wash located within Minix Canyon. Refer to the images below. Upon discovery, Hilcorp began recovery efforts immediately on pad by emptying the remaining fluids in the BGT storage vessel and recovering any possible free product on the pad location with a 3rd party vacuum truck operator. At this time, the site remains shut-in while cleanup efforts commence on pad. Hilcorp will discuss with the BLM-FFO first before proceeding with off pad cleanup efforts.

Based on initial assessments conducted by Hilcorp personnel, visual impacts to the unnamed watercourse were observed along approximately 950 linear ft with a width of 4 ft. These impacts are characterized as visual soil staining and discoloration on vegetation along the water feature. This is still being assessed at the moment.

An initial C-141 will be submitted to the NMOCD no later than 9/2/2022.

Please contact me if you have any questions. Thanks.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2224144740
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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?	390 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☒ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☒ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2224144740
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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.

Printed Name: Mitch Killough Title: Environmental Specialist

Signature: _____ Date: 1/13/2023

email: mkillough@hilcorp.com Telephone: 713-757-5247

OCD Only

Received by: Jocelyn Harimon Date: 01/13/2023

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2224144740
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Mitch Killough Title: Environmental Specialist

Signature: _____ Date: 1/13/2023

email: mkillough@hilcorp.com Telephone: 713-757-5247

OCD Only

Received by: Jocelyn Harimon Date: 01/13/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Nelson Velez Date: 03/22/2023

OCD approves the updated remediation work plan within the report which includes future samples to be analyzed for TPH & chloride only. Remediation due date is updated to June 23, 2023.

ENSOLUM

January 13, 2023

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

Re: Updated Remediation Work Plan
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company
NMOCD Incident No: nAPP2224144740

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Updated Remediation Work Plan* for a release at the Seymour 6 natural gas production well (Site). The Site is located on Federal land managed by the Bureau of Land Management (BLM) in rural San Juan County, New Mexico (Figure 1). This proposed Work Plan includes additional remediation of impacted soil and vegetation originating from the overtopping of oil from a below grade tank (BGT). The Site is located in Unit M, Section 14, Township 31 North, Range 9 West, in rural San Juan County, New Mexico.

SITE BACKGROUND

On August 18, 2022, Hilcorp discovered a 20-barrel (bbl) release of oil at the Site. Significant precipitation at the Site caused a BGT to overflow into the secondary containment berm. A section of the earthen berm subsequently failed and released fluids outside of the containment and ultimately migrated off the facility pad into an adjacent dry wash. The volume released was determined by the operator's monthly tank gauging data. Upon discovery, Hilcorp immediately emptied the remaining fluids from the BGT and retained a vacuum truck to recover any possible standing fluids at the Site (approximately 2 bbls). On August 19, 2022, Hilcorp excavated approximately 55 yards of visibly impacted soils from the original footprint of the well pad at the Site for disposal at a permitted facility.

Hilcorp reported the release to the New Mexico Oil Conservation Division (NMOCD) and the BLM within 24 hours of discovery of the release. Hilcorp submitted a *Major Undesirable Event Report* to the BLM on August 19, 2022 and submitted a Form C-141 to the NMOCD on August 29, 2022 and a revised Form C-141 on August 31, 2022 (an error was discovered in the initial Form C-141 submitted on August 29, 2022). The NMOCD has assigned the Site Incident Number nAPP2224144740.

Due to the nature of the release migrating over a large portion of the well pad and into an adjacent dry wash, as well as the need for a Cultural Resources Inventory and Threatened and Endangered Species Evaluation to be conducted for off-pad areas per the BLM, Hilcorp submitted a *Remediation Work Plan* (prepared by Ensolum and dated September 29, 2022) to the NMOCD and BLM for review and approval. Specifically, the *Remediation Work Plan* described the

proposed remediation and sampling activities and requested a variance for the frequency of excavation confirmation samples to be collected at the Site. The NMOCD and BLM approved the *Remediation Work Plan* and the NMOCD approved a variance for the frequency of excavation sampling on the well pad to be decreased from every 200 square feet to every 500 square feet for floor samples and from every 200 square feet to every 400 square feet for sidewall samples. Additionally, the NMOCD approved a sampling frequency of one sample per 100 linear feet for the collection of soil samples within the adjacent wash. BLM and NMOCD approvals are included in Appendices A and B, respectively.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors (shown on Figure 2) 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). Based on the information presented in Ensolum's *Remediation Work Plan* and in accordance with the *Table I, Closure Criteria for Soils Impacted by a Release* (19.15.29.12 of the NMAC), the following "Closure Criteria" are applied to the Site based on the proximity to a significant watercourse:

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

2022 SOIL SAMPLING ACTIVITIES

At the request of the BLM, Hilcorp conducted a *Cultural Resources Inventory* prior to conducting sampling work at the Site. Additionally, the BLM conducted an internal *Threatened and Endangered Species Evaluation* prior to the start of work to assess the presence of sensitive ecological receptors in the release pathway. No cultural resources or threatened and endangered species were discovered in the project area and the BLM approved the proposed work to be conducted within a 20-foot buffer area on either side of the dry wash. The cultural and ecological surveys, as well as the BLM's approval of the *Remediation Work Plan*, are attached as Appendix A.

After removing obviously impacted soil from the well pad (conducted in August 2022 and based on petroleum hydrocarbon staining and odors), and once BLM approval was received for off-pad activities, Ensolum and Hilcorp personnel collected soil samples on December 8, 2022 to assess soil conditions both on the well pad and in the dry wash. Prior to sampling, the NMOCD and the BLM were notified of the upcoming Site activities (Appendix B). Five-point composite soil samples were collected from the floor of the well pad excavation at a frequency of one sample per 500 square feet (samples SS01 through SS20). Due to the shallow nature of the excavation (less than 1 foot in depth), shallow sidewall areas were incorporated into the composite floor samples. Additionally, 5-point composite samples were collected from the dry wash at a frequency of one sample for every 100 linear feet (samples WS01 through WS17). The entire release extent is shown on Figure 3, with specific sampling locations for the wash and well pad presented on Figures 4 and 5, respectively.

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 placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 6 degrees Celsius (°C) under strict chain-of-custody procedures to Hall Environmental Analysis Laboratory (Hall) in Albuquerque, New Mexico. All samples were

submitted for analyses of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Analytical results indicated two samples collected within the wash (WS01 and WS10) exceeded the applicable Closure Criteria for TPH. Concentrations of TPH also exceeded the Closure Criteria in all on-pad soil samples with the exception of samples SS02 and SS17. Additionally, concentrations of chloride exceeded the Closure Criteria in only one on-pad sample, SS08. All other COCs analyzed during the December 8, 2022 sampling event were in compliance with the applicable NMOCD Table I Closure Criteria. Analytical results collected during this event are summarized in Table 1, with complete laboratory analytical reports attached as Appendix C. Photographs taken during the sampling event are presented in Appendix D.

UPDATED REMEDIATION WORK PLAN

Based on the soil sampling results described above, Hilcorp proposes to further delineate on-pad areas using a hand auger and/or backhoe (if shallow refusal is encountered with a hand auger) to assess the vertical extent of soil impacts at the Site. Once delineated, Hilcorp will continue excavating TPH impacted soil in on-pad areas of the Site. Hilcorp will also remove TPH-impacted soil in in the vicinity of samples WS01 and WS10 (located within the adjacent wash) using hand equipment (i.e., shovel). Additionally, Hilcorp will remove by hand any vegetation impacted by the release, as indicated by the presence of an oily film on the vegetation and/or vegetation exhibiting stress caused by the release (e.g., browning or staining). Once impacted soil is removed, Hilcorp will collect additional 5-point composite samples from the excavation floors and sidewalls at the frequency approved by the NMOCD. The samples will be collected in the manner described above and submitted to Hall for laboratory analysis. Based on the results from the December 2022 sampling event, Hilcorp is requesting that future samples only be analyzed for TPH and chloride.

Once impacted soil and vegetation have been removed, excavated areas will be backfilled and recontoured to match the original land surface grade. Any vegetated area disturbed during Site activities will also be backfilled with topsoil (where required) and reseeded with a BLM-approved seed mix. The proposed remediation activities will be completed within 90 days of BLM and NMOCD approval of this Work Plan. Hilcorp will immediately inform the NMOCD of any alterations to this schedule due to third-party availability, equipment shortages, and/or weather delays.

We appreciate the opportunity to provide this work plan to the BLM and 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

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

Attachments:

Figure 1:	Site Location Map
Figure 2:	Site Receptor Map
Figure 3:	Initial Release Extent
Figure 4:	Composite Sample Location – Wash
Figure 5:	Soil Sample Locations – Well Pad
Table 1:	Composite Soil Sample Analytical Results
Appendix A:	BLM Cultural Resources Inventory, Threatened and Endangered Species Evaluation, and Correspondence
Appendix B:	NMOCD Correspondence
Appendix C:	Laboratory Analytical Reports
Appendix D:	Site Photographs

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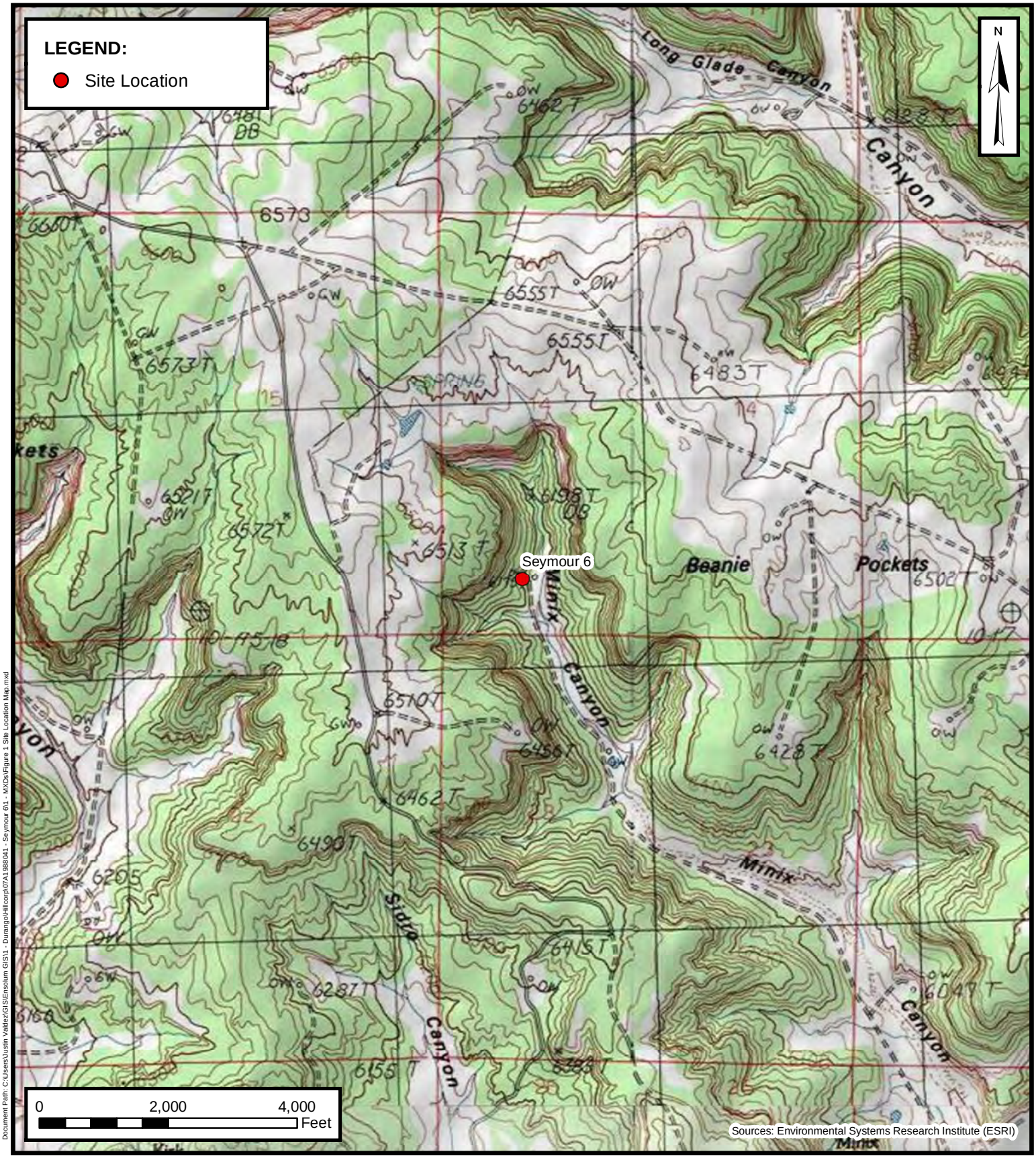
FIGURES



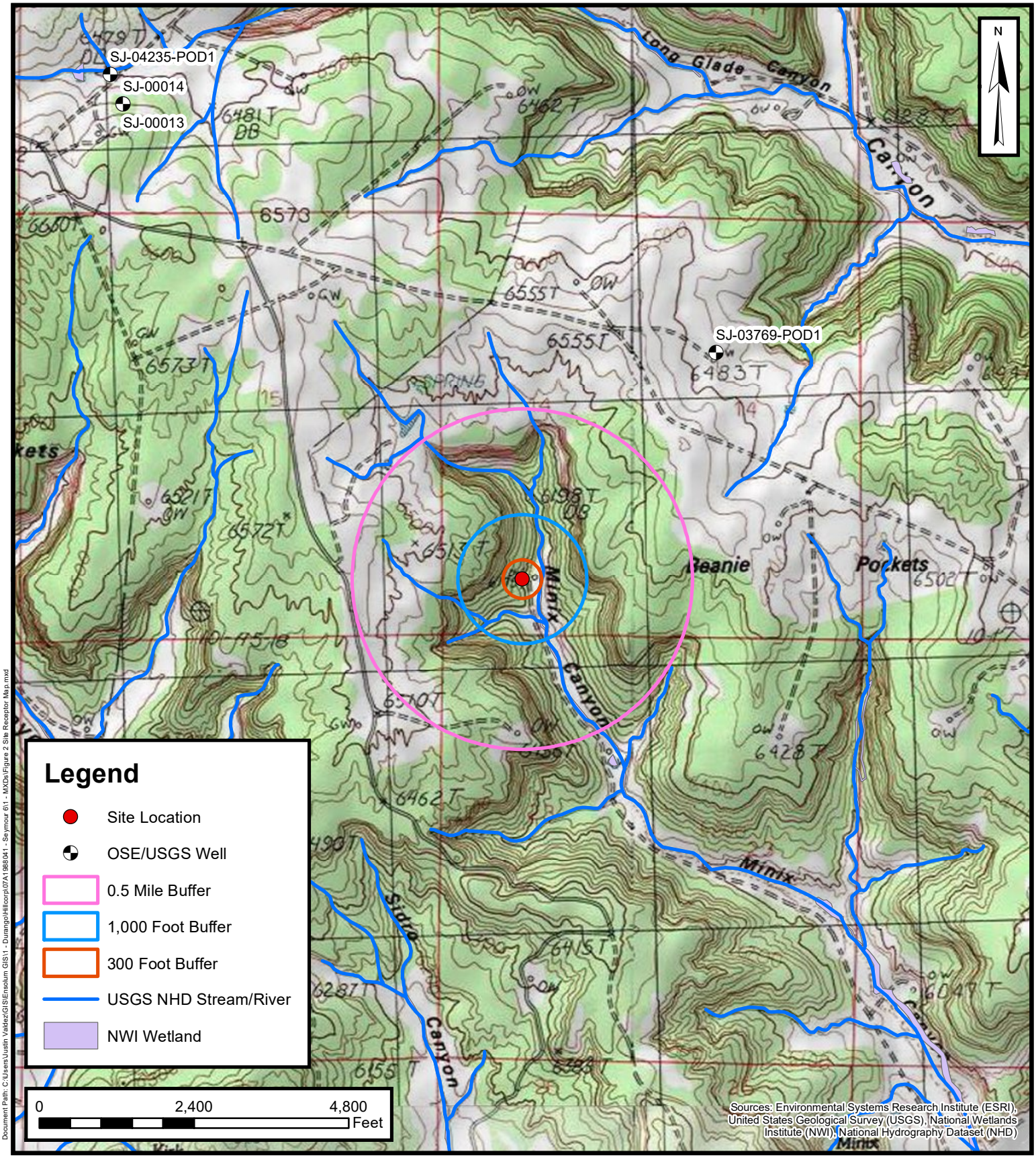
Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\11 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 1 Site Location Map.mxd

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Site Location Map

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
1



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\1 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 2 Site Receptor Map.mxd

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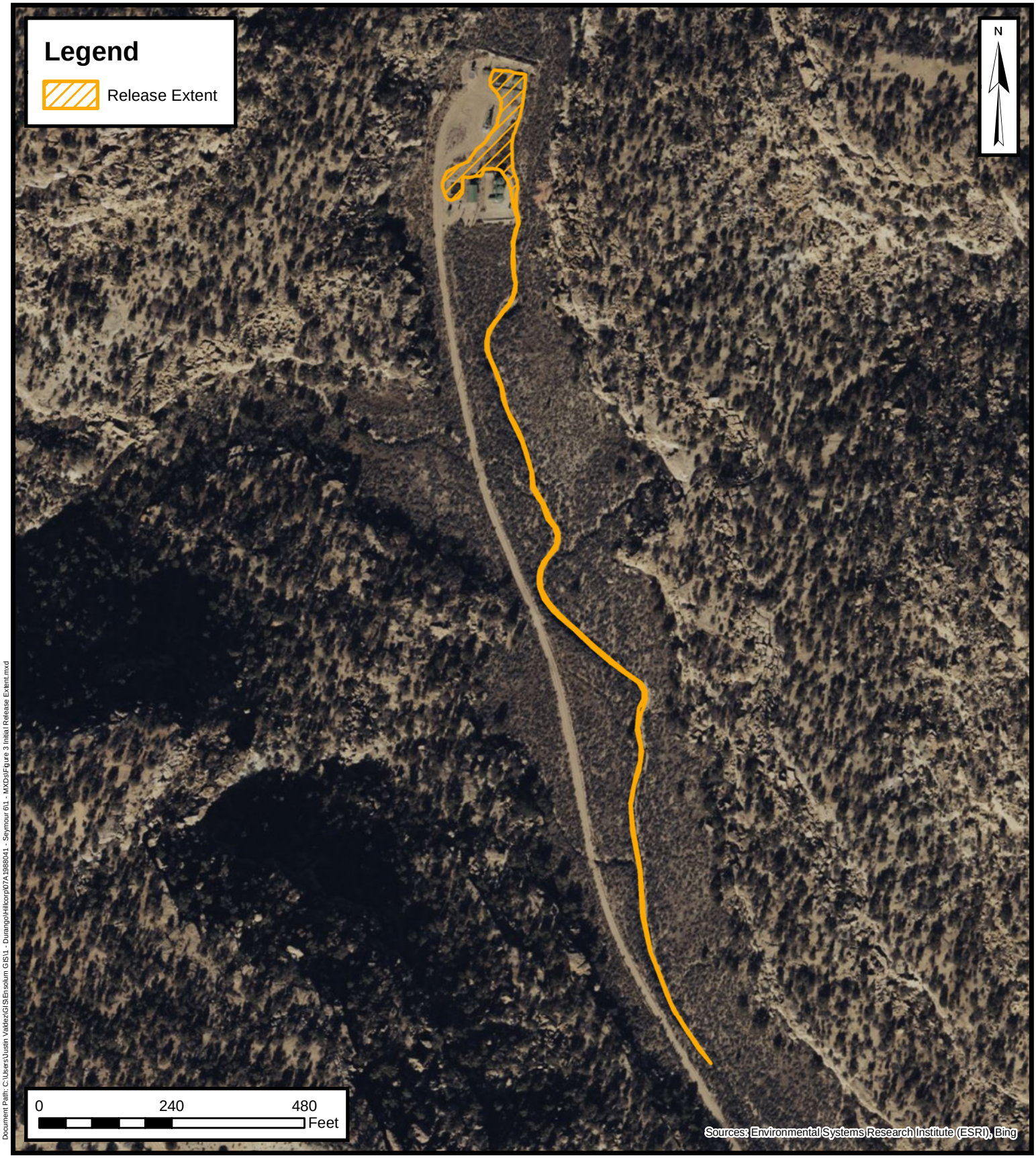
Environmental, Engineering and Hydrogeologic Consultants

Site Receptor Map

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
2



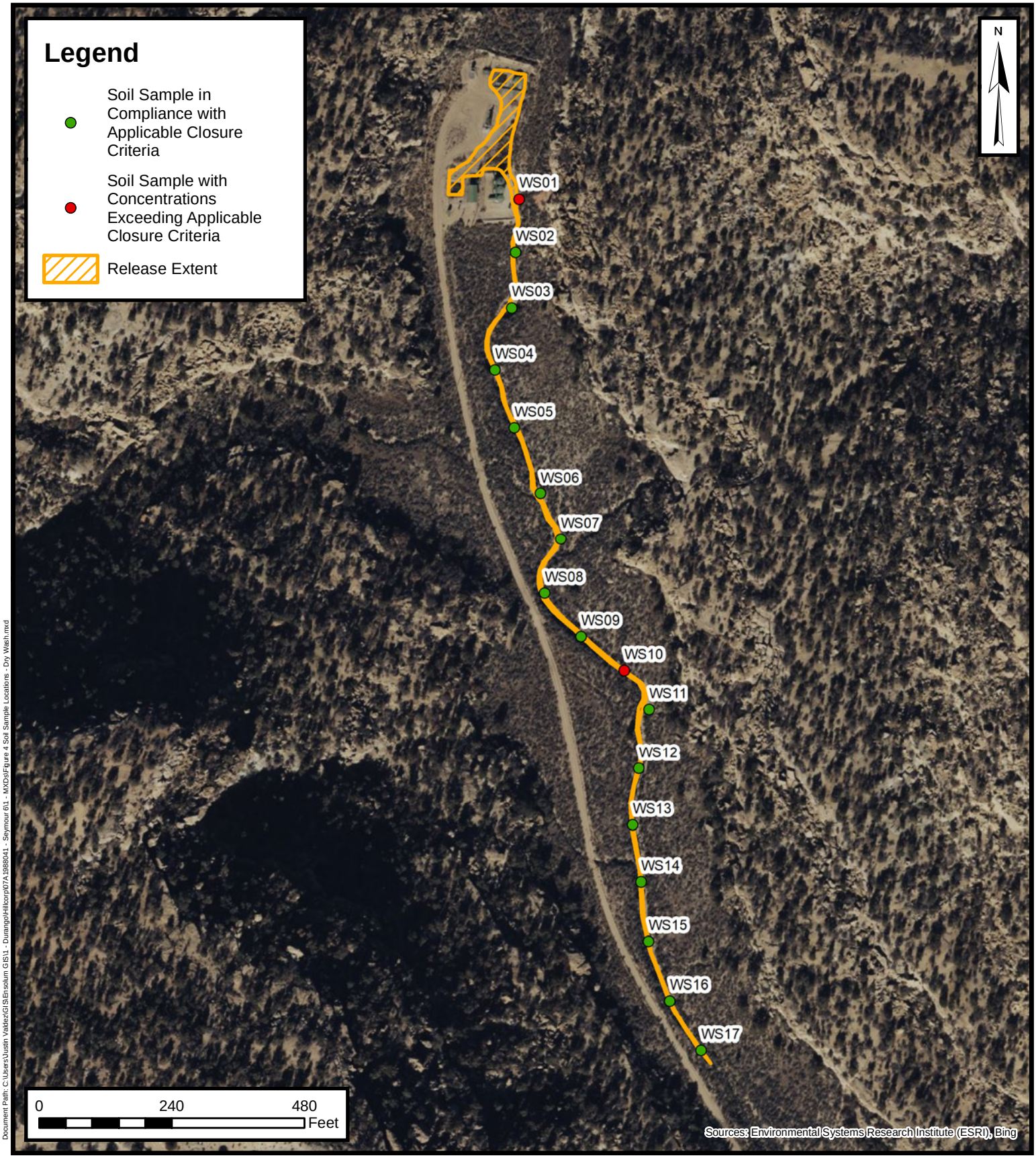
Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\1 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 3 Initial Release Extent.mxd

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Initial Release Extent

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
3



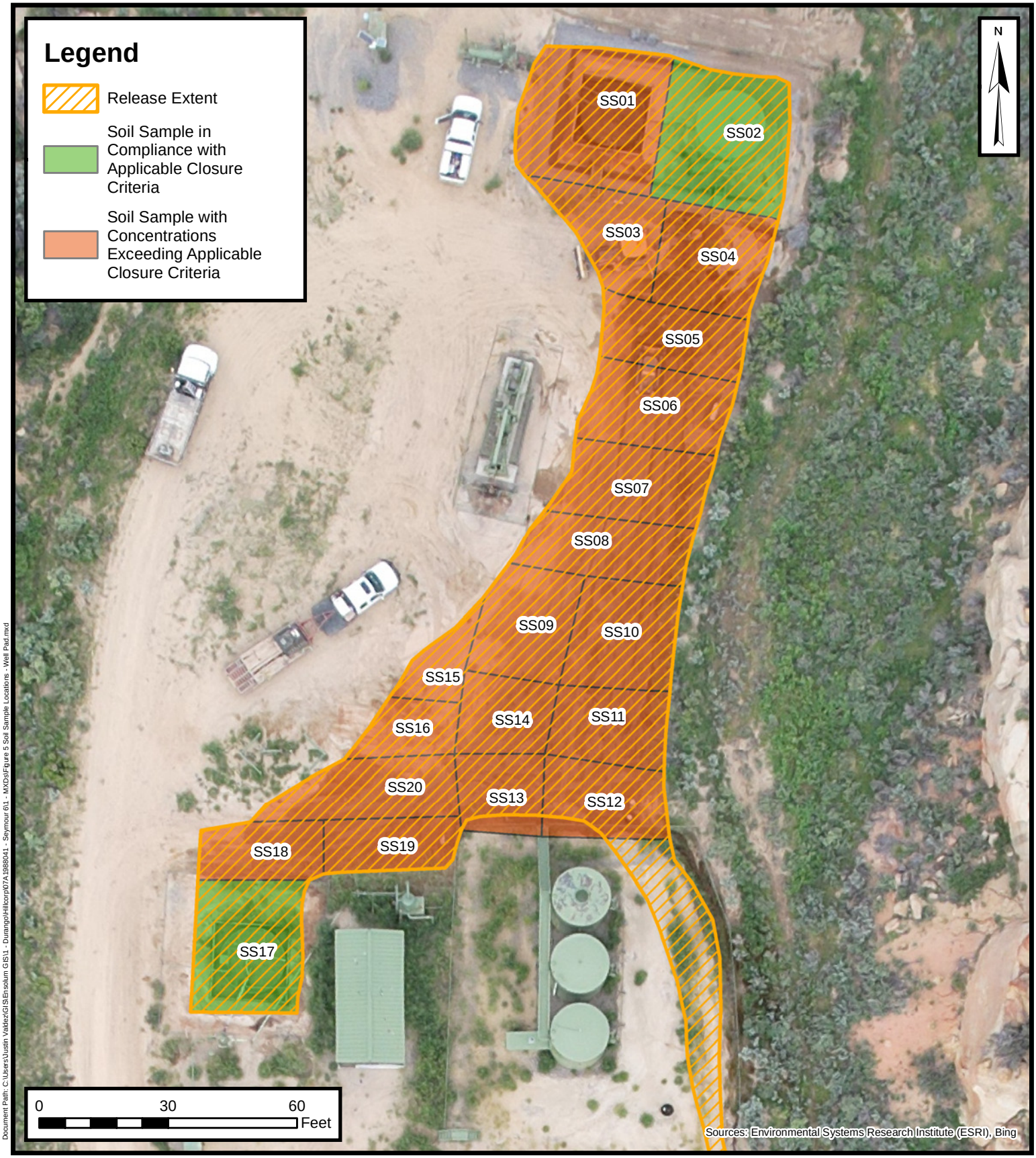
Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\1 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 4 Soil Sample Locations - Dry Wash.mxd

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Composite Sample Location – Wash

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
4



Document Path: C:\Users\Justin Valdez\GIS\Ensolum GIS\1 - Durango\Hilcorp\07A1988041 - Seymour 6\1 - MXDs\Figure 5 Soil Sample Locations - Well Pad.mxd

ENSOLUM
Environmental, Engineering and Hydrogeologic Consultants

Composite Sample Locations – Well Pad

Seymour 6
Hilcorp Energy Company
36.8929138, -107.7552261
San Juan County, NM

FIGURE
5

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TABLES

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TABLE 1
COMPOSITE SOIL SAMPLE ANALYTICAL RESULTS
Seymour 6
Hilcorp Energy Company
San Juan County, New Mexico

Sample Designation	Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater <50 feet)			**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
Wash Composite Soil Samples												
WS01	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	1,000	590	**1,590**	<60
WS02	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<46	<46	<60
WS03	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<13	<44	<44	<59
WS04	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<47	<47	<59
WS05	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<47	<47	<60
WS06	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<14	<48	<48	<60
WS07	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<14	<48	<48	<60
WS08	12/8/2022	0 - 0.25	<0.024	<0.049	<<0.049	<0.098	<0.098	<4.9	<14	<48	<48	<61
WS09	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	<13	<45	<45	<59
WS10	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	41	79	**120**	<60
WS11	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	<15	<48	<48	<60
WS12	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<15	<50	<50	<60
WS13	12/8/2022	0 - 0.25	<0.024	<0.049	<0.049	<0.098	<0.098	>4.9	<14	<47	<47	<60
WS14	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<14	<47	<47	<60
WS15	12/8/2022	0 - 0.25	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	<13	<43	<43	<60
WS16	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	<60
WS17	12/8/2022	0 - 0.25	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	<14	<46	<46	<60
Well Pad Composite Soil Samples												
SS01	12/8/2022	0.5	<0.024	<0.048	<0.048	<0.097	<0.097	<4.8	360	380	**740**	<60
SS02	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	29	<49	29	<60
SS03	12/8/2022	0.5	<0.025	<0.049	<0.049	<0.099	<0.099	<4.9	390	330	**720**	<60
SS04	12/8/2022	0.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	<71	<240	**<240**	<60
SS05	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	210	210	**420**	<60
SS06	12/8/2022	0.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	2,600	2,400	**5,000**	76
SS07	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	400	390	**790**	230
SS08	12/8/2022	0.5	<0.025	0.049	<0.049	<0.098	<0.098	<4.9	1,000	1,200	**2,200**	**1,700**
SS09	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	86	150	**236**	62
SS10	12/8/2022	0.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	540	740	**1,280**	<60
SS11	12/8/2022	0.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	520	580	**1,100**	<60
SS12	12/8/2022	0.5	<0.025	<0.049	<0.049	<0.098	<0.098	<4.9	210	240	**450**	<59
SS13	12/8/2022	0.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	2,800	2,300	**5,100**	<60
SS14	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	2,400	2,300	**4,700**	<60
SS15	12/8/2022	0.5	<0.025	<0.050	<0.50	<0.10	<0.10	<5.0	55	93	**148**	<60

ENSOLUM

TABLE 1
COMPOSITE SOIL SAMPLE ANALYTICAL RESULTS
Seymour 6
Hilcorp Energy Company
San Juan County, New Mexico

Sample Designation	Date	Depth (feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater <50 feet)			**10**	NE	NE	NE	**50**	NE	NE	NE	**100**	**600**
SS16	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.097	<0.097	<4.9	290	310	**600**	<60
SS17	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	17	<50	17	<59
SS18	12/8/2022	0.5	<0.025	<0.050	<0.050	<0.10	<0.10	<5.0	290	310	**600**	<60
SS19	12/8/2022	0.5	<0.025	<0.050	<0.050	<0.099	<0.099	<5.0	64	83	**147**	<60
SS20	12/8/2022	0.5	<0.024	<0.049	<0.049	<0.098	<0.098	<4.9	280	290	**570**	<60

Notes:

bgs: below ground surface
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
mg/kg: milligrams per kilogram
NA: Not Analyzed
NE: Not Established
NMOCD: New Mexico Oil Conservation Division
': feet
GRO: Gasoline Range Organics
DRO: Diesel Range Organics
MRO: Motor Oil/Lube Oil Range Organics
TPH: Total Petroleum Hydrocarbon
<: indicates result less than the stated laboratory reporting limit (RL)
*Concentrations in **bold** exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release*

ENSOLUM

APPENDIX A

Cultural Resources Inventory, Threatened and Endangered Species Evaluation, and BLM Correspondence

IN-HOUSE ARCHEOLOGICAL SURVEY DETERMINATION NM-210-2023-001
FARMINGTON FIELD OFFICE

Case No./Name: Seymour #6/T31N, R9W Sec 14, Qrt: SWSW
Date: 10/03/2022
Company: Hilcorp Energy Company
Type of Case: Spill Remediation

IS A CULTURAL RESOURCE INVENTORY REQUIRED?

☐ Proposal involves non-Federal lands.
☐ Proposal is within an existing right-of-way.
☐ Proposal is along an existing road.
☐ Proposal is within an existing disturbed area.
☐ The well pad is to be expanded feet to the .
☒ Other: Hilcorp Energy proposed to remediate the oil spill that occurred at Seymour #6 on the 08/18/2022. The spill entered the dry wash adjacent to the well pad and traveled approximately 1000 ft in the wash. Hilcorp proposed to remove vegetation and impacted soil from the well and the dry wash by hand/or mechanical excavation if needed.
Please see the location map.

NOTE: Attach map (e.g., USGS map, survey plat, GIS**)** and other supporting information as needed. If you are proposing to use a previously culturally surveyed area, identify by BLM cultural case number if known.

Submitted by: Emanuel Adeloye

CULTURAL RESOURCE SPECIALIST RECOMMENDATIONS

☒ Inventory for cultural resources **is** required.
☐ Inventory for cultural resources **is not** required for the reason(s) indicated below.

☐ Previous natural ground disturbance has modified the surface so extensively that the likelihood of finding cultural properties is negligible (e.g., within a floodplain), or

☐ Human activity has created a new land surface to such an extent as to eradicate traces of cultural properties, or

☐ Existing Class II or equivalent inventory or environmental data are sufficient to indicate that there is no likelihood of finding a National Register or eligible property, or

☐ Inventory at the Class III level of intensity has previously been performed and records adequately documenting the location, methods, and results of the inventory are available in report no. NMCRIS 33436, 36019, and 34589, or

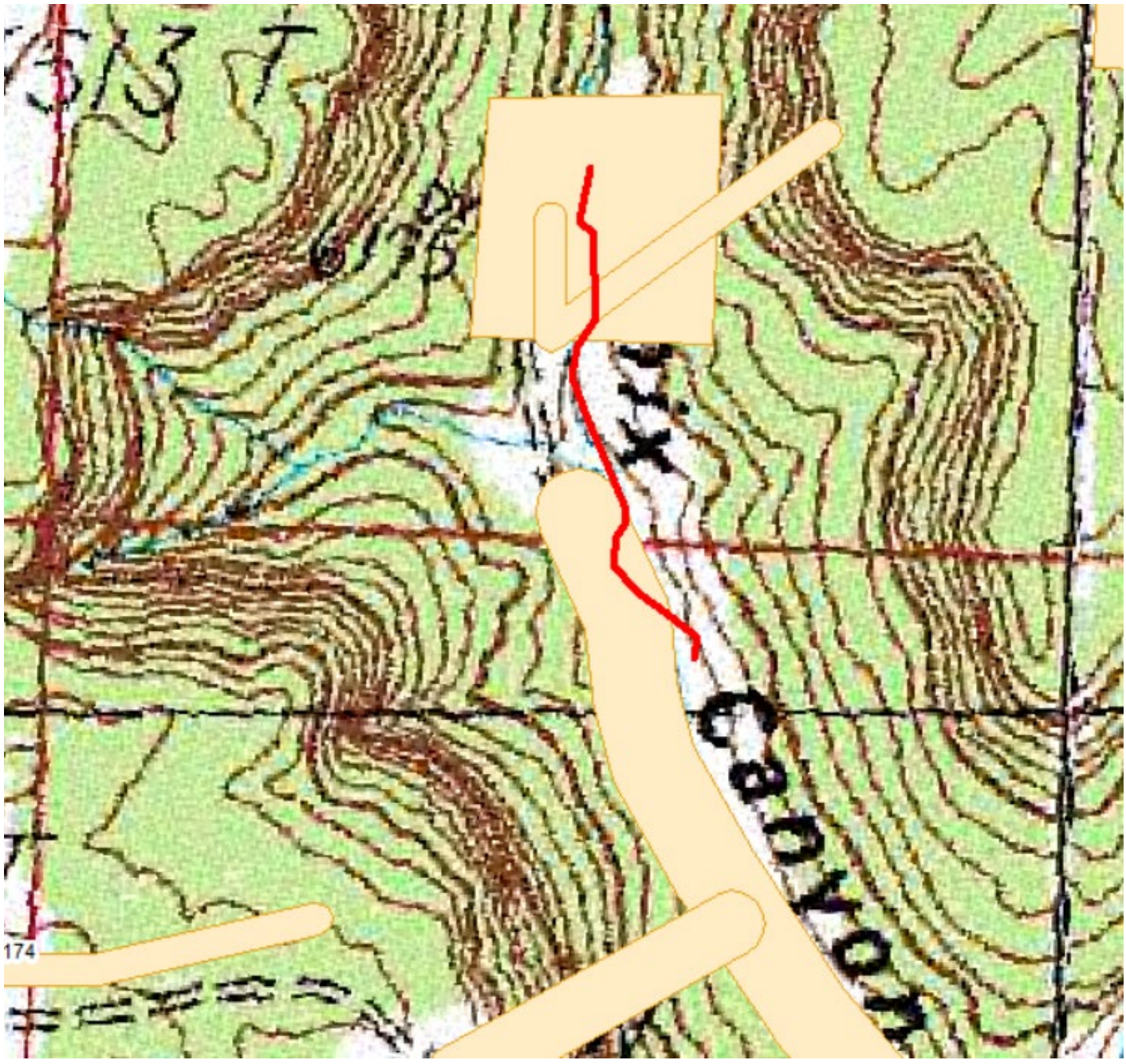
☐ Natural environmental characteristics are unfavorable to the presence of cultural properties (such as recent landslide or rock falls), or

☐ The nature of the proposed action is such that no impact can be expected on significant cultural resources (e.g. land use will not require any surface disturbing action, e.g., aerial spraying, hand application of chemicals, travel on existing roads, etc.), or

☐ Other:

Recommended by: Archaeologist: Erik Simpson Date: 10-3-2022

Cultural Notes (if any, e.g., conditions, stipulations, etc.): If any cultural resources are encountered on BLM lands a BLM archaeologist must be notified immediately. Surveyed is only needed in the mid and southern sections that have not been previously surveyed as shown on the attached map.


174

SAN JUAN COUNTY MUSEUM ASSOCIATION
Salmon Ruins Museum
Research Library
Division of Conservation Archaeology
Heritage Park

November 4, 2022

Archaeologist
Bureau of Land Management
Farmington Field Office
6251 College Blvd, Suite A
Farmington, NM 87402
NMCRIS No. 151295

RE: The Cultural Resources Inventory for a Release Remediation Plan at the Hilcorp Seymour No. 6 Well, for Ensolum, LLC, San Juan County, New Mexico.

Dear BLM Archaeologist:

Enclosed please find two copies of DCA Technical Report No. 22-DCA-050, *The Cultural Resources Inventory for a Release Remediation Plan at the Hilcorp Seymour No. 6 Well, for Ensolum, LLC, San Juan County, New Mexico.* This report details the cultural resources survey and inventory of the area required to cleanup an inadvertent hydrocarbon release. The project area is located in San Juan County, New Mexico on land administered by the Bureau of Land Management, Farmington Field Offices. No cultural resources were identified during the survey. It is recommended that the Remediation Work Plan and Variance Request for the Seymour 6 as proposed by Ensolum, LLC be allowed to proceed.

Sincerely,

Sarah M. Morgan
DCA Supervisory Archaeologist

cc: Stuart Hyde, Ensolum, LLC (1 electronic client copy)

NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.: 151295	2a. Lead (Sponsoring) Agency: Bureau of Land Management, Farmington Field Office	2b. Other Permitting Agency(ies):	3. Lead Agency Report No.:

4. Title of Report: The Cultural Resources Inventory for a Release Remediation Plan at the Hilcorp Seymour No. 6 Well, for Ensolum, LLC, San Juan County, New Mexico.

Author(s) Sarah M. Morgan

5. Type of Report ☒ **Negative** ☐ **Positive**

6. Investigation Type

☐ Research Design ☒ Survey/Inventory ☐ Test Excavation ☐ Excavation ☐ Collections/Non-Field Study
☐ Overview/Lit Review ☐ Monitoring ☐ Ethnographic study ☐ Site specific visit ☐ Other

7. Description of Undertaking (what does the project entail?): The Division of Conservation Archaeology was contacted by Ensolum LLC on October 20, 2022 to perform a cultural resource inventory for a release which occurred at the Hilcorp Energy Company Seymour 6 well. The release had occurred in August and the BLM-FFO requested that a cultural resource inventory occur in the area prior to remediation. The project area includes the area of the release and area required to access it and clean it up. The release itself occurred from a below ground tank during a flash flood event; the tank overflowed with the addition of the rainwater and approximately 20 barrels of oil were released from the tank. The combined water and released oil flowed across part of the well pad and south down an arroyo for approximately 1700 ft (518 m). The APE includes the area of the existing Seymour No. 6 well pad (co-located with the LOGOS Operating LLC Seymour #719 well), and a 20 ft swathe centered on the drainage which the release flow followed. The APE is 1.84 acres. A total of 12.07 acres was surveyed including the cultural buffer zone.

8. Date(s) of Investigation: November 1, 2022

9. Report Date: November 4, 2022

10. Performing Agency/Consultant: Division of Conservation Archaeology
Principal Investigator: Jason Meininger
Field Supervisor: Sarah M. Morgan
Field Personnel Names: Sarah M. Morgan and Leonard Yazzie

11. Performing Agency/Consultant Report No.: 22-DCA-050

12. Applicable Cultural Resource Permit No(s): 7-2920-20-ZZZ

13. Client/Customer (project proponent): Ensolum, LLC
Contact: Stuart Hyde
Address: 2351 W. Northwest Hwy Ste. 1203, Dallas TX 75220
Phone: (972) 364-7643

14. Client/Customer Project No.: 07A1988052

15. Land Ownership Status ***(Must be indicated on project map):***

Land Owner	Acres Surveyed	Acres in APE
Bureau of Land Management-Farmington Field Office	12.07	1.84
TOTALS	12.07	1.84

16 Records Search(es): An online search of NMCRIS/ARMS indicated that three sites (LA 74831, LA 79523, and LA 79524) are located within 0.25 mi of the project area. No sites listed on the National or State Registers are located within the project vicinity. The BLM-FFO archaeologist was consulted and no additional concerns regarding the project area were indicated (TCPs or sites not in the ARMS database). The nearest TCP is Mesa Mountains (59) which is approximately 4 miles northwest of the project area (Van Valkenberg 1974).

Date(s) of ARMS File Review 10/31/2022	**Name of Reviewer(s)** Sarah M. Morgan	
Date(s) of NR/SR File Review 10/31/2022	**Name of Reviewer(s)** Sarah M. Morgan	
Date(s) of Other Agency File Review 10/24/22	**Name of Reviewer(s)** Lyn Wharton w/Erik Simpson (BLM)	**Agency** BLM-FFO

17. Survey Data:

a. Source Graphics ☐ NAD 27 ☒ NAD 83

☒ USGS 7.5' (1:24,000) topo map ☐ Other topo map, Scale:

☒ GPS Unit Accuracy ☐<1.0m ☒ 1-10m ☐ 10-100m ☐>100m

b. USGS 7.5' Topographic Map Name | **USGS Quad Code**

Mount Nebo, NM 1985 (provisional edition)	36107-H7

c. County(ies): San Juan

17. Survey Data (continued):

d. Nearest City or Town: Navajo Dam, NM

e. Legal Description:

Township (N/S)	Range (E/W)	Section	¼ ¼ ¼
31N	9W	14	SW, SW
		23	NE, NW

Projected legal description? Yes [ ], No [X] Unplatted [ ]

f. Other Description (e.g. well pad footages, mile markers, plats, land grant name, etc.): Footages of Seymour 6 well: 790' FSL, 1035' FWL

18. Survey Field Methods:

Intensity: ☒ 100% coverage ☐ <100% coverage

Configuration: ☒ block survey units ☐ linear survey units (l x w): ☐ other survey units (specify):

Scope: ☒ non-selective (all sites recorded) ☐ selective/thematic (selected sites recorded)

Coverage Method: ☒ systematic pedestrian coverage ☐ other method (describe)

Survey Interval (m): 10-12 **Crew Size:** 2 **Fieldwork Date:** November 1, 2022

Additional Narrative: The acres surveyed includes an irregularly shaped cultural buffer zone around the area of the release. The buffer zone is irregular; DCA surveyed the extent of the width of the canyon to the sides of where the sandstone walls meet the canyon bottom and extend up towards the mesa top. This was done because the vegetative ground cover in the immediate vicinity of the release was close to 95% in most areas. In order to ascertain if there was any evidence of cultural resources which may be buried/covered in the project area, archaeologists examined the boulders and sandstone escarpment for signs of rock art/rock features and for any evidence of sites which may have been situated on the canyon floor but not visible due to ground cover. The embankments of the arroyos and drainages, including the primary drainage through which the release flowed, were also inspected for any evidence of cultural resources which may have been buried. None were identified. Evidence of a previous wildfire was noted on the western cutbank of the main drainage as a 10-30 cm thick lens of charcoal and ash laden sediments with pieces of charcoal and burned rock fragments extending for a length of approximately 80-100 ft. This lens was inspected carefully and no indication of cultural activities appeared within it.

19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.): The project area is at the head of Minux Canyon on the canyon bottom and within the main drainage of the canyon. The project is located 1.75 mi east of Pump Canyon and immediately south of Beanie Pockets. The sediment in the area consists of tan sand to tan sandy loam with sandstone bedrock on the sides of the canyon. Vegetation in the project area consists of an overstory of juniper and pinyon with an understory of Russian thistle, big sagebrush, four-wing saltbush, Gambel oak, mountain mahogany, various now-dormant wildflowers, forbs, cholla, prickly pear cactus, and broadleaf yucca.

20. a. Percent Ground Visibility: 10-15% (averaged) **b. Condition of Survey Area (grazed, bladed, undisturbed, etc.):** The well pad, pipeline, and associated access road appear to be the only disturbances in the project area. Grazing and recreation take place in the project area.

21. CULTURAL RESOURCE FINDINGS ☐ **Yes, See Page 3** ☒ **No, Discuss Why:** No cultural resources were located during the survey.

22. Required Attachments (check all appropriate boxes):	23. Other Attachments:
☒ USGS 7.5 Topographic Map with sites, isolates, and survey area clearly drawn ☒ Copy of NMCRIS Mapserver Map Check ☐ LA Site Forms - new sites (*with sketch map & topographic map*) ☐ LA Site Forms (update) - previously recorded & un-relocated sites (*first 2 pages minimum*) ☐ Historic Cultural Property Inventory Forms ☐ List and Description of isolates, if applicable ☐ List and Description of Collections, if applicable	☐ Photographs and Log ☐ Other Attachments *(Describe)*:

24. I certify the information provided above is correct and accurate and meets all applicable agency standards.

Principal Investigator/Responsible Archaeologist: Sarah M. Morgan

Signature _____ **Date** 11/4/22 **Title (if not PI):** Supervisory Archaeologist

25. Reviewing Agency:	26. SHPO Reviewer's Name/Date:
Reviewer's Name/Date Accepted ( ) Rejected ( ) Tribal Consultation (if applicable): ☐ Yes ☐ No	HPD Log #: SHPO File Location: Date sent to ARMS:

CULTURAL RESOURCE FINDINGS

[fill in appropriate section(s)]

1. NMCRIS Activity No.: 151295	2. Lead (Sponsoring) Agency: Bureau of Land Management, Farmington Field Office	3. Lead Agency Report No.:

SURVEY RESULTS:

Sites discovered and registered: 0
Sites discovered and NOT registered: 0
Previously recorded sites revisited (*site update form required*): **0**
Previously recorded sites not relocated ***(site update form required):*** **0**
TOTAL SITES VISITED: 0
Total isolates recorded: 0 **Non-selective isolate recording?** ☐
Total structures recorded (*new and previously recorded, including acequias*): **0**

MANAGEMENT SUMMARY:

IF REPORT IS NEGATIVE YOU ARE DONE AT THIS POINT.

SURVEY LA NUMBER LOG

Sites Discovered:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

Previously recorded revisited sites:

LA No.	Field/Agency No.	Eligible? (Y/N, applicable criteria)

MONITORING LA NUMBER LOG *(site form required)*

Sites Discovered (*site form required*) : **Previously recorded sites** ***(Site update form required):***

LA No.	Field/Agency No.	LA No.	Field/Agency No.

Areas outside known nearby site boundaries monitored? Yes ☐, No ☐ If no explain why:

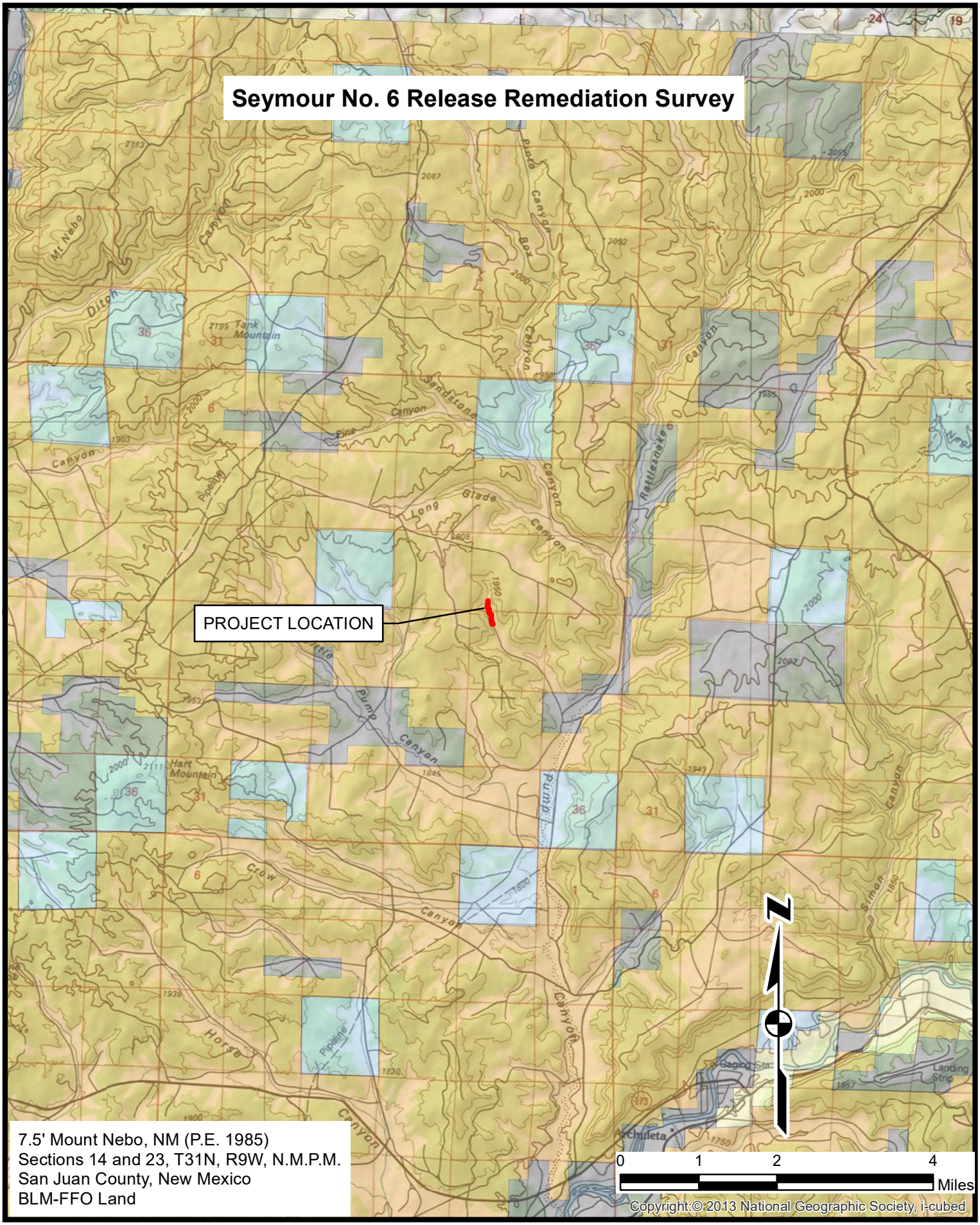
TESTING & EXCAVATION LA NUMBER LOG (*site form required*)

Tested LA number(s)	Excavated LA number(s)

Reference cited:

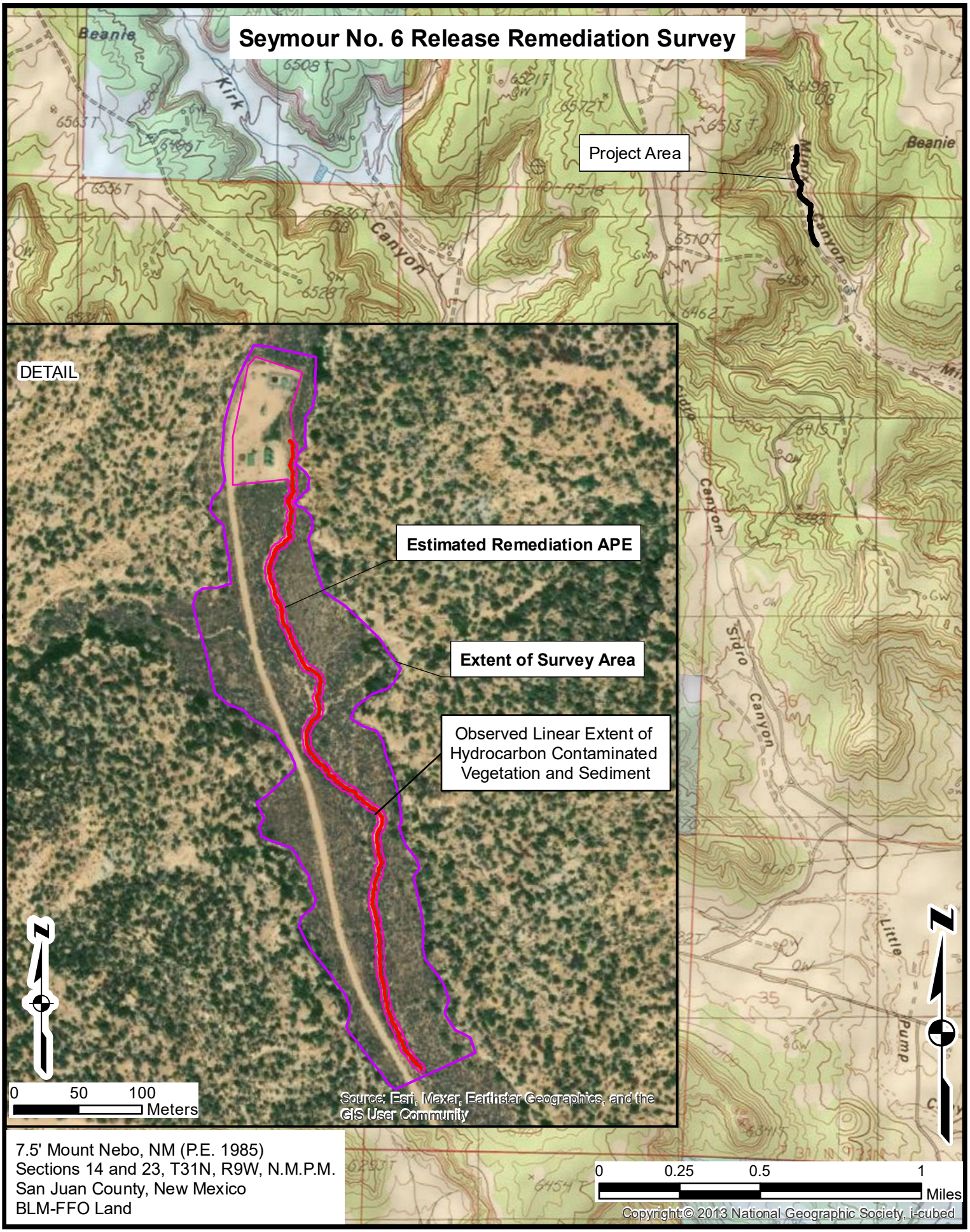
Van Valkenburg, Richard P.
1974 Navajo Sacred Places, edited by Clyde Kluckhohn. In *Navajo Indians III*, pp. 9-199. Garland Publishers, New York.

GENERAL LOCATION MAP



Report No. 22-DCA-050 Figure 1. General map showing the project location. NMCRIS No. 151295

VICINITY MAP



Report No. 22-DCA-050

Figure 2. Vicinity map showing the project location.

NMCRIS No. 151295

BLM Report Number: 2023(I)007F
USGS Map: Mount Nebo, NM
Activity Code: 1310
NMCRIS No: 151295

CULTURAL RESOURCE RECORD OF REVIEW

BUREAU OF LAND MANAGEMENT
FARMINGTON FIELD OFFICE

1. Description of Report/Project:

Project Name: Release Remediation Plan at the Hilcorp Seymour No 6 Well.
Project Sponsor: Hilcorp Energy Company (Ensolum, LLC).
Arch. Firm & Report No.: Division of Conservation Archaeology, DCA Report No. 22-DCA-050.
Location: T31N R9W Sections 14, & 23.
Split Estate: no.
Project Dimensions: 1,700 ft x 20 ft – oil spill cleanup area.
Sites Located: None.

Determination: No Effect to Historic Properties.

2. **Field Check:** No.
3. **Cultural ACEC:** No.
4. **Sensitive Cultural Area:** No.
5. **Recommendation:** *PROCEED WITH ACTION:* _X_ *STIPULATIONS ATTACHED*: __

6. Reviewer /Archaeologist: Kim Adams **Date**: 11/15/2022

Report Summary	BLM	Other	Total
Acres Inventoried	12.07	0.88	12.07
Sites Recorded	0	0	0
Prev. Recorded Sites	0	0	0
Sites Avoided	0	0	0
Sites Treated	0	0	0

Discovery of Cultural Resources in the Presence or Absence of Monitoring: If any previously unidentified historic or prehistoric cultural resources are discovered during construction or project operations, work in the vicinity of the discovery will be suspended and the discovery will promptly be reported to the BLM Field Manager.

Note: If there are questions about these stipulations, contact Kim Adams (BLM) at 505.564.7683 or kadams@blm.gov.

United States Department of the Interior
BUREAU OF LAND MANAGEMENT
Farmington Field Office

REQUEST FOR THREATENED AND ENDANGERED (T&E) / SPECIAL STATUS SPECIES SPECIES PROPOSAL EVALUATION

Accomplishment Number

Instructions: Double Form: 1) the upper portion - a request for and 2) the lower portion – evaluation of need for Formal Consultation

TO: Resource Area Special Status Apecies, T&E Species, Migratory Birds

Please evaluate this proposed action relative to possible affects on any Federally listed T&E, proposed Federal T&E, State listed T&E, or Special Status Species which may occur in the proposed location.

Description of the proposed Action and Case Reference Number:Seymour #6
Hilcorp Energy proposed to remediate the oil spill that occurred at Seymour #6 on the 08/18/2022. The sill entered the unknow dry wash adjacent to the well pad and traveled approximately 1000 ft in the wash. Hilcorp proposed to remove by hand and vegetation and impacted soil from the well and the dry wash by hand/or mechanical excavation if needed.
Please see the location map.

LOCATION	PROPOSEE
T31N, R9W, Sec 14 Qrt: SWSW	Abiodun Adeloye (NRS) Signature of Initiating Official & Title 10/03/2022 Date

This proposal and relative data have been analyzed concerning the following species:BLM sensitive spp

The analysis indicates that there would be a ☒No- ☐May- affect situation as a result of approving this described proposed action and Formal Consultation ☐ is ☐is not necessary.

This proposal is a ☒ minor construction ☐major construction.

Method of Analysis: ☐ Field Examination ☒ Data bank/GIS ☐ Other (explain)

COMMENTSNo known habitat for any SSS within the proposed spill area

Evaluated by

Level 1 Biologist		Level 2 Biologist	
s/s John Kendall	10/3/22		
(Signature)	(Date)	(Signature)	(Date)

070-6843-01
(Sept. 2000)

Reviewed by

(Signature and Title)

Well Name: SEYMOUR

Well Location: T31N / R9W / SEC 14 / SWSW / 36.893127 / -107.754608

County or Parish/State: SAN JUAN / NM

Well Number: 6

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078505

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004510684

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Notice of Intent

Sundry ID: 2695897

Type of Submission: Notice of Intent

Type of Action: Other

Date Sundry Submitted: 10/03/2022

Time Sundry Submitted: 06:36

Date proposed operation will begin: 10/03/2022

Procedure Description: ATTN: Emmanuel. Summary: Hilcorp is seeking approval from the BLM-FFO to implement the attached Remediation Work Plan (RWP) at the Seymour 6. In addition, the RWP requests a variance for the frequency of excavation confirmation samples (refer to attachment for further details). Upon BLM-FFO and NMOCD approval, Hilcorp will move forward with the RWP.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Hilcorp_Energy_Company___Seymour_6_Remediation_Work_Plan_BLM_ALL_20221003063559.pdf

Well Name: SEYMOUR

Well Location: T31N / R9W / SEC 14 / SWSW / 36.893127 / -107.754608

County or Parish/State: SAN JUAN / NM

Well Number: 6

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMSF078505

Unit or CA Name:

Unit or CA Number:

US Well Number: 3004510684

Well Status: Producing Gas Well

Operator: HILCORP ENERGY COMPANY

Conditions of Approval

Additional

TE_Evaluation_Seymore_6_spill_Final_20221130081651.pdf

Hilcorps_Release_Remediation_Plan_at_the_Hilcorp_Seymour_No_6_Well_no_stips_106_arc_review_Adams_20221130081448.pdf

Conditions_of_Approval_20221130081437.pdf

Operator

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a

Operator Electronic Signature: AMANDA WALKER

Signed on: OCT 03, 2022 06:36 AM

Name: HILCORP ENERGY COMPANY

Title: Operations/Regulatory Technician

Street Address: 1111 TRAVIS ST.

City: HOUSTON **State:** TX

Phone: (346) 237-2177

Email address: mwalker@hilcorp.com

Field

Representative Name: Mitch Killough

Street Address: 1111 TRAVIS ST.

City: HOUSTON **State:** TX **Zip:** 77002

Phone: (713)757-5247

Email address: mkillough@hilcorp.com

BLM Point of Contact

BLM POC Name: DAVE J MANKIEWICZ

BLM POC Title: AFM-Minerals

BLM POC Phone: 5055647761

BLM POC Email Address: DMANKIEW@BLM.GOV

Disposition: Approved

Disposition Date: 11/30/2022

Signature: Dave Mankiewicz

Operator: Hilcorp Energy Company

Well Name: Seymour #6

Legal Description: T31N, R9W, Sec 14

Conditions of Approval

Disclaimers: BLM's approval of this remediation plan does not relieve the lessee an operator from obtaining any other authorizations that may be required by other jurisdictional entities. These COA's may reiterate COAs attached to original permit though they do not negate any COA's attached to the original permit.

1. This location has a ranking of 20 due to being <50 feet depth to groundwater, >300 horizontal feet from surface water body and not within a wellhead protection area in accordance with NMOCD's Guidelines for Remediation of Leaks, Spills and Releases and BLM-FFO NTL 94-1. This release will need to be cleaned to this regulatory standards: therefore, TPH needs to be <100 ppm, BTEX <50 ppm, benzene <100 ppm and chloride <600 ppm.

2. Hilcorp Energy Company will notify the BLM at least 24 hours prior to any confirmation soil sampling event. Contact Abiodun (Emmanuel) Adeloye at aadeloye@blm.gov or 505-564-7665 (office) or 505 635-0984 (cell).

3. Any disturbance of the interim reclaimed area will be appropriately reclaimed back to pre-project interim reclamation conditions. This approval does not permit surface disturbance beyond area requested. If it is determined that additional surface disturbance is required for sufficient remediation, a new request shall be submitted via Sundry (form 3160-005).

4. All cultural resources stipulations would be followed as indicated in the BLM Cultural Resource Records of Review and the Conditions of Approvals. These stipulations may include, but are not limited to, temporary or permanent fencing or other physical barriers, monitoring of earth-disturbing construction, project area reduction and/or specific construction avoidance zones, and employee education.

5. All employees of the project, including the Operator and its contractors and sub-contractors will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. This includes all personnel associated with construction, use, maintenance and abandonment of the well pad, well facilities, access and pipelines. They will also be notified that it is illegal to collect, damage, or disturb cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the Archaeological Resources Protection Act (16U.S.C. 470aa-mm) when on federal land and the New Mexico cultural Properties Act NMSA 1978 when on State land.

6. If, in its operations, operator/holder discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery in accordance with 36 CFR Section 800.13, in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property, or in accordance with an approved program alternative. Minor recordation, stabilization, or data recovery may be performed by BLM or a third party acting on its behalf, such as a permitted cultural resources consultant. If warranted, more extensive archaeological or alternative mitigation, likely implemented by a permitted cultural resources consultant, may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any mitigations determined appropriate through the agency's Section 106 consultation are completed. Failure to notify the BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act (ARPA) of 1979, as amended, the Native American Graves Protection and Repatriation Act (NAGRPA) of 1990, as amended, and other applicable laws.

7. If monitoring confirms the presence of previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the BLM Field Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery in accordance with 36 CFR Section 800.13, in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property, or in accordance with an approved program alternative. Minor recordation, stabilization, or data recovery may be performed by BLM or a third party acting on its behalf, such as a permitted cultural resources consultant. If warranted, more extensive archaeological or alternative mitigation, likely implemented by a permitted cultural resources consultant, may be required of the operator/holder prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any mitigations determined appropriate through the agency's Section 106 consultation are completed.

8. If, in its operations, operator/holder damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator/holder agrees at his/her expense to have a permitted cultural resources consultant prepare a BLM approved damage assessment and/or data recovery plan. The operator/holder agrees at his/her expense to implement a mitigation that the agency finds appropriate given the significance of the site, which the agency determines in consultation with the appropriate State or Tribal Historic Preservation Officer(s) and Indian tribe(s) that might attach religious and cultural significance to the affected property. This mitigation may entail execution of the data recovery plan by a permitted cultural resources consultant and/or alternative mitigations. Damage to cultural resources may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act (ARPA) of 1979, as amended, the Native American Graves Protection and Repatriation Act (NAGRPA) of 1990, as amended, and other applicable laws.

9. All employees of the project, including the Project Sponsor and its contractors and sub-contractors will be informed and educated that cultural sites are to be avoided by all personnel,

personal vehicles and company equipment. This includes personnel associated with construction, use, maintenance and abandonment of the well pad, well facilities, access and pipeline. They will also be notified that it is illegal to collect, damage, or disturb historic or prehistoric cultural resources, and that such activities are punishable by criminal and or administrative penalties under the provisions of the ARPA (16 U.S.C. 470aa-mm), NAGPRA (25 U.S.C. 3001-3013), and other laws, as applicable (for example, NM Stat. § 18-6-9 through § 18-6-11.2, as amended, and NM Stat. § 30-12-12, as amended).

ENSOLUM

APPENDIX B

NMOCD Correspondence

From: OCDOnline@state.nm.us
To: Stuart Hyde
Subject: The Oil Conservation Division (OCD) has approved the application, Application ID: 146472
Date: Friday, September 30, 2022 9:55:04 AM

[**EXTERNAL EMAIL**]

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

The OCD has approved the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2224144740, with the following conditions:

- **Conditions of Approval are as follows; 1. Excavation base sampling: one (1) - five (5) point composite sample [5pcs] per 500 square feet [sq. ft.]. 2. Sidewall sampling: one (1) 5pcs per 400 sq. ft. 3. Off pad sampling: one (1) 5pcs per 100 lateral ft. 4. Provide supporting documentation for applicable siting criteria within any potential interim or final closure report. 5. Required to adhere to Paragraph 2 and 3 of Subsection C of 19.15.29.12 NMAC. 6. Required to adhere to Paragraph 1 of Subsection D of 19.15.29.13 NMAC. 7. Deadline for final closure report is Friday, January 13, 2023.**

The signed C-141 can be found in the OCD Online: Imaging under the incident ID (n#).

If you have any questions regarding this application, please contact me.

Thank you,
Nelson Velez
Environmental Specialist - Advanced
505-469-6146
Nelson.Velez@emnrd.nm.gov

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

From: Velez, Nelson, EMNRD
To: Stuart Hyde; Adeloye, Abiodun A
Cc: Devin Hencmann; Mitch Killough; Greg Palese; Brandon Sinclair
Subject: RE: [EXTERNAL] nAPP22241444740 - Hilcorp Energy Company - Seymour 6 Sampling Notification
Date: Monday, December 5, 2022 3:17:29 PM
Attachments: image006.png
image007.png
image008.png
image009.png

[**EXTERNAL EMAIL**]

Stuart,

Thank you for the notice. If an OCD representative is not on-site on the date &/or time given, please sample per 19.15.29 NMAC. 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.

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

Regards

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 *NOTE NEW EMAIL ADDRESS*
http://www.emnrd.state.nm.us/OCD/

From: Stuart Hyde <shyde@ensolum.com>
Sent: Monday, December 5, 2022 11:51 AM
To: Velez, Nelson, EMNRD <Nelson.Velez@emnrd.nm.gov>; Adeloye, Abiodun A <aadeloye@blm.gov>
Cc: Devin Hencmann <dhencmann@ensolum.com>; Mitch Killough <mkillough@hilcorp.com>; Greg Palese <gpalese@ensolum.com>; Brandon Sinclair <Brandon.Sinclair@hilcorp.com>
Subject: [EXTERNAL] nAPP22241444740 - Hilcorp Energy Company - Seymour 6 Sampling Notification

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

links or opening attachments.

All,

On behalf of Hilcorp Energy Company, Ensolum is submitting this sampling notification for the Seymour 6 to be performed on Thursday December 8, 2022 at 9 AM. The site is located at coordinates 36.89313, -107.75461. Please call or email with any questions. Thanks.

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

ENSOLUM

APPENDIX C

Laboratory Analytical Reports

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

January 04, 2023

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

RE: Seymor 6 OrderNo.: 2212586

Dear Stuart Hyde:

Hall Environmental Analysis Laboratory received 37 sample(s) on 12/9/2022 for the analyses presented in the following report.

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

Please don't hesitate to contact HEAL for any additional information or clarifications.

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

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS01
Project: Seymor 6
Collection Date: 12/8/2022 10:20:00 AM
Lab ID: 2212586-001 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	1000	140		mg/Kg	10	12/16/2022 6:31:15 PM
Motor Oil Range Organics (MRO)	590	470		mg/Kg	10	12/16/2022 6:31:15 PM
Surr: DNOP	0	21-129	S	%Rec	10	12/16/2022 6:31:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 12:03:12 AM
Surr: BFB	86.5	37.7-212		%Rec	1	12/16/2022 12:03:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 12:03:12 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 12:03:12 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 12:03:12 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 12:03:12 AM
Surr: 4-Bromofluorobenzene	83.6	70-130		%Rec	1	12/16/2022 12:03:12 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	12/20/2022 4:08:33 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS02
Project: Seymor 6
Collection Date: 12/8/2022 10:25:00 AM
Lab ID: 2212586-002 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 6:54:53 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/16/2022 6:54:53 PM
Surr: DNOP	138	21-129	S	%Rec	1	12/16/2022 6:54:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 12:26:30 AM
Surr: BFB	83.3	37.7-212		%Rec	1	12/16/2022 12:26:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 12:26:30 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 12:26:30 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 12:26:30 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/16/2022 12:26:30 AM
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	12/16/2022 12:26:30 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	12/20/2022 4:45:35 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS03
Project: Seymor 6
Collection Date: 12/8/2022 10:30:00 AM
Lab ID: 2212586-003 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/22/2022 1:23:18 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/22/2022 1:23:18 PM
Surr: DNOP	124	21-129		%Rec	1	12/22/2022 1:23:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 12:49:46 AM
Surr: BFB	86.1	37.7-212		%Rec	1	12/16/2022 12:49:46 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 12:49:46 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 12:49:46 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 12:49:46 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 12:49:46 AM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	12/16/2022 12:49:46 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	59		mg/Kg	20	12/20/2022 5:47:19 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS04
Project: Seymor 6
Collection Date: 12/8/2022 10:35:00 AM
Lab ID: 2212586-004 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 7:42:12 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/16/2022 7:42:12 PM
Surr: DNOP	126	21-129		%Rec	1	12/16/2022 7:42:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2022 1:12:59 AM
Surr: BFB	83.8	37.7-212		%Rec	1	12/16/2022 1:12:59 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 1:12:59 AM
Toluene	ND	0.050		mg/Kg	1	12/16/2022 1:12:59 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2022 1:12:59 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/16/2022 1:12:59 AM
Surr: 4-Bromofluorobenzene	82.6	70-130		%Rec	1	12/16/2022 1:12:59 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	59		mg/Kg	20	12/20/2022 5:59:40 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS05
Project: Seymor 6
Collection Date: 12/8/2022 10:40:00 AM
Lab ID: 2212586-005 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 8:05:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/16/2022 8:05:52 PM
Surr: DNOP	134	21-129	S	%Rec	1	12/16/2022 8:05:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 1:36:12 AM
Surr: BFB	86.5	37.7-212		%Rec	1	12/16/2022 1:36:12 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 1:36:12 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 1:36:12 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 1:36:12 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 1:36:12 AM
Surr: 4-Bromofluorobenzene	85.6	70-130		%Rec	1	12/16/2022 1:36:12 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	12/20/2022 6:12:01 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS06
Project: Seymor 6
Collection Date: 12/8/2022 10:45:00 AM
Lab ID: 2212586-006 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 8:29:30 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/16/2022 8:29:30 PM
Surr: DNOP	129	21-129	S	%Rec	1	12/16/2022 8:29:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 3:08:53 AM
Surr: BFB	82.9	37.7-212		%Rec	1	12/16/2022 3:08:53 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 3:08:53 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 3:08:53 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 3:08:53 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/16/2022 3:08:53 AM
Surr: 4-Bromofluorobenzene	83.4	70-130		%Rec	1	12/16/2022 3:08:53 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	12/20/2022 6:24:21 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS07
Project: Seymor 6
Collection Date: 12/8/2022 10:50:00 AM
Lab ID: 2212586-007 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 8:53:09 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/16/2022 8:53:09 PM
Surr: DNOP	132	21-129	S	%Rec	1	12/16/2022 8:53:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 4:18:24 AM
Surr: BFB	82.0	37.7-212		%Rec	1	12/16/2022 4:18:24 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 4:18:24 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 4:18:24 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 4:18:24 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 4:18:24 AM
Surr: 4-Bromofluorobenzene	81.6	70-130		%Rec	1	12/16/2022 4:18:24 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	60		mg/Kg	20	12/20/2022 6:36:41 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS08
Project: Seymor 6
Collection Date: 12/8/2022 10:55:00 AM
Lab ID: 2212586-008 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 9:16:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/16/2022 9:16:49 PM
Surr: DNOP	129	21-129		%Rec	1	12/16/2022 9:16:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 5:27:57 AM
Surr: BFB	83.3	37.7-212		%Rec	1	12/16/2022 5:27:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 5:27:57 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 5:27:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 5:27:57 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 5:27:57 AM
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	12/16/2022 5:27:57 AM
EPA METHOD 300.0: ANIONS						Analyst: **CAS**
Chloride	ND	61		mg/Kg	20	12/20/2022 6:49:03 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS09
Project: Seymor 6
Collection Date: 12/8/2022 11:00:00 AM
Lab ID: 2212586-009 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/16/2022 9:40:30 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	12/16/2022 9:40:30 PM
Surr: DNOP	131	21-129	S	%Rec	1	12/16/2022 9:40:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2022 5:51:07 AM
Surr: BFB	83.0	37.7-212		%Rec	1	12/16/2022 5:51:07 AM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 5:51:07 AM
Toluene	ND	0.050		mg/Kg	1	12/16/2022 5:51:07 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2022 5:51:07 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/16/2022 5:51:07 AM
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	12/16/2022 5:51:07 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	59		mg/Kg	20	12/20/2022 12:29:32 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS10
Project: Seymor 6
Collection Date: 12/8/2022 11:05:00 AM
Lab ID: 2212586-010 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	41	14		mg/Kg	1	12/22/2022 1:33:56 PM
Motor Oil Range Organics (MRO)	79	45		mg/Kg	1	12/22/2022 1:33:56 PM
Surr: DNOP	115	21-129		%Rec	1	12/22/2022 1:33:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 8:07:38 PM
Surr: BFB	85.2	37.7-212		%Rec	1	12/16/2022 8:07:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 8:07:38 PM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 8:07:38 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 8:07:38 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 8:07:38 PM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	12/16/2022 8:07:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 1:31:17 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS11
Project: Seymor 6
Collection Date: 12/8/2022 11:10:00 AM
Lab ID: 2212586-011 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/16/2022 10:27:49 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/16/2022 10:27:49 PM
Surr: DNOP	91.2	21-129		%Rec	1	12/16/2022 10:27:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 8:30:56 PM
Surr: BFB	84.3	37.7-212		%Rec	1	12/16/2022 8:30:56 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 8:30:56 PM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 8:30:56 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 8:30:56 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/16/2022 8:30:56 PM
Surr: 4-Bromofluorobenzene	85.0	70-130		%Rec	1	12/16/2022 8:30:56 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 2:08:19 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS12
Project: Seymor 6
Collection Date: 12/8/2022 11:14:00 AM
Lab ID: 2212586-012 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/16/2022 10:51:29 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/16/2022 10:51:29 PM
Surr: DNOP	96.3	21-129		%Rec	1	12/16/2022 10:51:29 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 8:54:14 PM
Surr: BFB	82.5	37.7-212		%Rec	1	12/16/2022 8:54:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 8:54:14 PM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 8:54:14 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 8:54:14 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/16/2022 8:54:14 PM
Surr: 4-Bromofluorobenzene	83.8	70-130		%Rec	1	12/16/2022 8:54:14 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 2:20:41 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS13
Project: Seymor 6
Collection Date: 12/8/2022 11:18:00 AM
Lab ID: 2212586-013 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 11:15:05 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/16/2022 11:15:05 PM
Surr: DNOP	94.7	21-129		%Rec	1	12/16/2022 11:15:05 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 9:17:27 PM
Surr: BFB	82.0	37.7-212		%Rec	1	12/16/2022 9:17:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 9:17:27 PM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 9:17:27 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 9:17:27 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 9:17:27 PM
Surr: 4-Bromofluorobenzene	85.1	70-130		%Rec	1	12/16/2022 9:17:27 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 2:33:01 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS14
Project: Seymor 6
Collection Date: 12/8/2022 11:23:00 AM
Lab ID: 2212586-014 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 11:38:39 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/16/2022 11:38:39 PM
Surr: DNOP	92.9	21-129		%Rec	1	12/16/2022 11:38:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 9:40:38 PM
Surr: BFB	83.7	37.7-212		%Rec	1	12/16/2022 9:40:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 9:40:38 PM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 9:40:38 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 9:40:38 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/16/2022 9:40:38 PM
Surr: 4-Bromofluorobenzene	85.3	70-130		%Rec	1	12/16/2022 9:40:38 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 2:45:23 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS15
Project: Seymor 6
Collection Date: 12/8/2022 11:26:00 AM
Lab ID: 2212586-015 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/17/2022 12:02:10 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	12/17/2022 12:02:10 AM
Surr: DNOP	92.9	21-129		%Rec	1	12/17/2022 12:02:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 10:03:50 PM
Surr: BFB	82.9	37.7-212		%Rec	1	12/16/2022 10:03:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 10:03:50 PM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 10:03:50 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 10:03:50 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/16/2022 10:03:50 PM
Surr: 4-Bromofluorobenzene	84.0	70-130		%Rec	1	12/16/2022 10:03:50 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 2:57:43 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS16
Project: Seymor 6
Collection Date: 12/8/2022 11:30:00 AM
Lab ID: 2212586-016 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/17/2022 12:25:39 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/17/2022 12:25:39 AM
Surr: DNOP	92.8	21-129		%Rec	1	12/17/2022 12:25:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2022 10:26:57 PM
Surr: BFB	83.8	37.7-212		%Rec	1	12/16/2022 10:26:57 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 10:26:57 PM
Toluene	ND	0.050		mg/Kg	1	12/16/2022 10:26:57 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2022 10:26:57 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/16/2022 10:26:57 PM
Surr: 4-Bromofluorobenzene	87.2	70-130		%Rec	1	12/16/2022 10:26:57 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 3:10:05 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: WS17
Project: Seymor 6
Collection Date: 12/8/2022 11:33:00 AM
Lab ID: 2212586-017 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/17/2022 12:49:09 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/17/2022 12:49:09 AM
Surr: DNOP	100	21-129		%Rec	1	12/17/2022 12:49:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2022 10:50:10 PM
Surr: BFB	82.8	37.7-212		%Rec	1	12/16/2022 10:50:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 10:50:10 PM
Toluene	ND	0.050		mg/Kg	1	12/16/2022 10:50:10 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2022 10:50:10 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/16/2022 10:50:10 PM
Surr: 4-Bromofluorobenzene	84.3	70-130		%Rec	1	12/16/2022 10:50:10 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 3:22:26 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS01
Project: Seymor 6 **Collection Date:** 12/8/2022 1:10:00 PM
Lab ID: 2212586-018 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	360	14		mg/Kg	1	12/19/2022 9:58:40 PM
Motor Oil Range Organics (MRO)	380	48		mg/Kg	1	12/19/2022 9:58:40 PM
Surr: DNOP	123	21-129		%Rec	1	12/19/2022 9:58:40 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/16/2022 11:13:18 PM
Surr: BFB	79.6	37.7-212		%Rec	1	12/16/2022 11:13:18 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 11:13:18 PM
Toluene	ND	0.048		mg/Kg	1	12/16/2022 11:13:18 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/16/2022 11:13:18 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/16/2022 11:13:18 PM
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	12/16/2022 11:13:18 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 3:59:28 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS02
Project: Seymor 6 **Collection Date:** 12/8/2022 1:12:00 PM
Lab ID: 2212586-019 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	29	15		mg/Kg	1	12/17/2022 1:35:38 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/17/2022 1:35:38 AM
Surr: DNOP	100	21-129		%Rec	1	12/17/2022 1:35:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 11:36:23 PM
Surr: BFB	80.1	37.7-212		%Rec	1	12/16/2022 11:36:23 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 11:36:23 PM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 11:36:23 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 11:36:23 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/16/2022 11:36:23 PM
Surr: 4-Bromofluorobenzene	81.4	70-130		%Rec	1	12/16/2022 11:36:23 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 4:11:49 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS03
Project: Seymor 6 **Collection Date:** 12/8/2022 1:15:00 PM
Lab ID: 2212586-020 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**
Diesel Range Organics (DRO)	390	14		mg/Kg	1	12/17/2022 2:21:48 AM
Motor Oil Range Organics (MRO)	330	46		mg/Kg	1	12/17/2022 2:21:48 AM
Surr: DNOP	116	21-129		%Rec	1	12/17/2022 2:21:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2022 12:22:32 AM
Surr: BFB	81.2	37.7-212		%Rec	1	12/17/2022 12:22:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/17/2022 12:22:32 AM
Toluene	ND	0.049		mg/Kg	1	12/17/2022 12:22:32 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2022 12:22:32 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2022 12:22:32 AM
Surr: 4-Bromofluorobenzene	82.1	70-130		%Rec	1	12/17/2022 12:22:32 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 4:24:10 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS04
Project: Seymor 6 **Collection Date:** 12/8/2022 1:18:00 PM
Lab ID: 2212586-021 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	ND	71	H	mg/Kg	5	12/29/2022 3:23:39 PM
Motor Oil Range Organics (MRO)	ND	240	H	mg/Kg	5	12/29/2022 3:23:39 PM
Surr: DNOP	141	21-129	SH	%Rec	5	12/29/2022 3:23:39 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2022 12:45:39 AM
Surr: BFB	79.7	37.7-212		%Rec	1	12/17/2022 12:45:39 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/17/2022 12:45:39 AM
Toluene	ND	0.049		mg/Kg	1	12/17/2022 12:45:39 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2022 12:45:39 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2022 12:45:39 AM
Surr: 4-Bromofluorobenzene	82.0	70-130		%Rec	1	12/17/2022 12:45:39 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 4:36:31 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS05
Project: Seymor 6 **Collection Date:** 12/8/2022 1:20:00 PM
Lab ID: 2212586-022 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	210	15		mg/Kg	1	12/16/2022 11:45:20 AM
Motor Oil Range Organics (MRO)	210	49		mg/Kg	1	12/16/2022 11:45:20 AM
Surr: DNOP	125	21-129		%Rec	1	12/16/2022 11:45:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2022 1:08:43 AM
Surr: BFB	78.7	37.7-212		%Rec	1	12/17/2022 1:08:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	12/17/2022 1:08:43 AM
Toluene	ND	0.049		mg/Kg	1	12/17/2022 1:08:43 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2022 1:08:43 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2022 1:08:43 AM
Surr: 4-Bromofluorobenzene	80.7	70-130		%Rec	1	12/17/2022 1:08:43 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 4:48:52 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS06
Project: Seymor 6 **Collection Date:** 12/8/2022 1:22:00 PM
Lab ID: 2212586-023 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	2600	140		mg/Kg	10	12/16/2022 12:58:15 PM
Motor Oil Range Organics (MRO)	2400	480		mg/Kg	10	12/16/2022 12:58:15 PM
Surr: DNOP	0	21-129	S	%Rec	10	12/16/2022 12:58:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/17/2022 1:31:45 AM
Surr: BFB	80.4	37.7-212		%Rec	1	12/17/2022 1:31:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/17/2022 1:31:45 AM
Toluene	ND	0.050		mg/Kg	1	12/17/2022 1:31:45 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/17/2022 1:31:45 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/17/2022 1:31:45 AM
Surr: 4-Bromofluorobenzene	81.5	70-130		%Rec	1	12/17/2022 1:31:45 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	76	60		mg/Kg	20	12/20/2022 5:01:13 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS07
Project: Seymor 6 **Collection Date:** 12/8/2022 1:23:00 PM
Lab ID: 2212586-024 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	400	73		mg/Kg	5	12/18/2022 5:22:56 PM
Motor Oil Range Organics (MRO)	390	240		mg/Kg	5	12/18/2022 5:22:56 PM
Surr: DNOP	154	21-129	S	%Rec	5	12/18/2022 5:22:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2022 1:54:45 AM
Surr: BFB	80.2	37.7-212		%Rec	1	12/17/2022 1:54:45 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.024		mg/Kg	1	12/17/2022 1:54:45 AM
Toluene	ND	0.049		mg/Kg	1	12/17/2022 1:54:45 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2022 1:54:45 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2022 1:54:45 AM
Surr: 4-Bromofluorobenzene	83.3	70-130		%Rec	1	12/17/2022 1:54:45 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	230	61		mg/Kg	20	12/20/2022 5:13:34 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS08
Project: Seymor 6 **Collection Date:** 12/8/2022 1:24:00 PM
Lab ID: 2212586-025 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	1000	140		mg/Kg	10	12/16/2022 1:46:30 PM
Motor Oil Range Organics (MRO)	1200	470		mg/Kg	10	12/16/2022 1:46:30 PM
Surr: DNOP	0	21-129	S	%Rec	10	12/16/2022 1:46:30 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/17/2022 2:17:47 AM
Surr: BFB	79.6	37.7-212		%Rec	1	12/17/2022 2:17:47 AM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.025		mg/Kg	1	12/17/2022 2:17:47 AM
Toluene	ND	0.049		mg/Kg	1	12/17/2022 2:17:47 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/17/2022 2:17:47 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/17/2022 2:17:47 AM
Surr: 4-Bromofluorobenzene	81.2	70-130		%Rec	1	12/17/2022 2:17:47 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	1700	60		mg/Kg	20	12/20/2022 5:25:55 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS09
Project: Seymor 6 **Collection Date:** 12/8/2022 1:26:00 PM
Lab ID: 2212586-026 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	86	15		mg/Kg	1	12/16/2022 2:10:37 PM
Motor Oil Range Organics (MRO)	150	50		mg/Kg	1	12/16/2022 2:10:37 PM
Surr: DNOP	108	21-129		%Rec	1	12/16/2022 2:10:37 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/15/2022 8:14:00 PM
Surr: BFB	93.2	37.7-212		%Rec	1	12/15/2022 8:14:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	12/15/2022 8:14:00 PM
Toluene	ND	0.049		mg/Kg	1	12/15/2022 8:14:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/15/2022 8:14:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/15/2022 8:14:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130		%Rec	1	12/15/2022 8:14:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	62	59		mg/Kg	20	12/20/2022 5:38:16 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS10
Project: Seymor 6 **Collection Date:** 12/8/2022 1:28:00 PM
Lab ID: 2212586-027 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	540	150		mg/Kg	10	12/18/2022 6:15:19 PM
Motor Oil Range Organics (MRO)	740	490		mg/Kg	10	12/18/2022 6:15:19 PM
Surr: DNOP	0	21-129	S	%Rec	10	12/18/2022 6:15:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/15/2022 9:13:00 PM
Surr: BFB	111	37.7-212		%Rec	1	12/15/2022 9:13:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	12/15/2022 9:13:00 PM
Toluene	ND	0.050		mg/Kg	1	12/15/2022 9:13:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/15/2022 9:13:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/15/2022 9:13:00 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	12/15/2022 9:13:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 5:50:37 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS11
Project: Seymor 6 **Collection Date:** 12/8/2022 1:30:00 PM
Lab ID: 2212586-028 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	520	150		mg/Kg	10	12/16/2022 2:59:42 PM
Motor Oil Range Organics (MRO)	580	490		mg/Kg	10	12/16/2022 2:59:42 PM
Surr: DNOP	0	21-129	S	%Rec	10	12/16/2022 2:59:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/15/2022 10:12:00 PM
Surr: BFB	102	37.7-212		%Rec	1	12/15/2022 10:12:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	12/15/2022 10:12:00 PM
Toluene	ND	0.049		mg/Kg	1	12/15/2022 10:12:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/15/2022 10:12:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/15/2022 10:12:00 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/15/2022 10:12:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 6:27:38 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS12
Project: Seymor 6 **Collection Date:** 12/8/2022 1:32:00 PM
Lab ID: 2212586-029 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	210	14		mg/Kg	1	12/16/2022 3:23:42 PM
Motor Oil Range Organics (MRO)	240	47		mg/Kg	1	12/16/2022 3:23:42 PM
Surr: DNOP	116	21-129		%Rec	1	12/16/2022 3:23:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/15/2022 10:32:00 PM
Surr: BFB	88.5	37.7-212		%Rec	1	12/15/2022 10:32:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	12/15/2022 10:32:00 PM
Toluene	ND	0.049		mg/Kg	1	12/15/2022 10:32:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/15/2022 10:32:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	12/15/2022 10:32:00 PM
Surr: 4-Bromofluorobenzene	96.3	70-130		%Rec	1	12/15/2022 10:32:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	59		mg/Kg	20	12/20/2022 5:40:03 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS13
Project: Seymor 6 **Collection Date:** 12/8/2022 1:34:00 PM
Lab ID: 2212586-030 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	2800	150		mg/Kg	10	12/16/2022 3:47:47 PM
Motor Oil Range Organics (MRO)	2300	490		mg/Kg	10	12/16/2022 3:47:47 PM
Surr: DNOP	0	21-129	S	%Rec	10	12/16/2022 3:47:47 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/15/2022 10:51:00 PM
Surr: BFB	95.4	37.7-212		%Rec	1	12/15/2022 10:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	12/15/2022 10:51:00 PM
Toluene	ND	0.050		mg/Kg	1	12/15/2022 10:51:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/15/2022 10:51:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/15/2022 10:51:00 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	12/15/2022 10:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 5:52:27 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS14
Project: Seymor 6 **Collection Date:** 12/8/2022 1:36:00 PM
Lab ID: 2212586-031 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	2400	150		mg/Kg	10	12/16/2022 4:11:52 PM
Motor Oil Range Organics (MRO)	2300	490		mg/Kg	10	12/16/2022 4:11:52 PM
Surr: DNOP	0	21-129	S	%Rec	10	12/16/2022 4:11:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/15/2022 11:11:00 PM
Surr: BFB	92.5	37.7-212		%Rec	1	12/15/2022 11:11:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	12/15/2022 11:11:00 PM
Toluene	ND	0.049		mg/Kg	1	12/15/2022 11:11:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/15/2022 11:11:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/15/2022 11:11:00 PM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	12/15/2022 11:11:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 6:29:39 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS15
Project: Seymor 6 **Collection Date:** 12/8/2022 1:38:00 PM
Lab ID: 2212586-032 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	55	14		mg/Kg	1	12/16/2022 4:35:54 PM
Motor Oil Range Organics (MRO)	93	47		mg/Kg	1	12/16/2022 4:35:54 PM
Surr: DNOP	103	21-129		%Rec	1	12/16/2022 4:35:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/15/2022 11:30:00 PM
Surr: BFB	95.2	37.7-212		%Rec	1	12/15/2022 11:30:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	12/15/2022 11:30:00 PM
Toluene	ND	0.050		mg/Kg	1	12/15/2022 11:30:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	12/15/2022 11:30:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	12/15/2022 11:30:00 PM
Surr: 4-Bromofluorobenzene	98.6	70-130		%Rec	1	12/15/2022 11:30:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 6:42:03 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS16
Project: Seymor 6 **Collection Date:** 12/8/2022 1:40:00 PM
Lab ID: 2212586-033 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	290	14		mg/Kg	1	12/16/2022 4:59:56 PM
Motor Oil Range Organics (MRO)	310	47		mg/Kg	1	12/16/2022 4:59:56 PM
Surr: DNOP	115	21-129		%Rec	1	12/16/2022 4:59:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/15/2022 11:50:00 PM
Surr: BFB	94.0	37.7-212		%Rec	1	12/15/2022 11:50:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	12/15/2022 11:50:00 PM
Toluene	ND	0.049		mg/Kg	1	12/15/2022 11:50:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/15/2022 11:50:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	12/15/2022 11:50:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130		%Rec	1	12/15/2022 11:50:00 PM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 6:54:28 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS17
Project: Seymor 6 **Collection Date:** 12/8/2022 12:30:00 PM
Lab ID: 2212586-034 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	17	15		mg/Kg	1	12/18/2022 5:43:59 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/18/2022 5:43:59 PM
Surr: DNOP	127	21-129		%Rec	1	12/18/2022 5:43:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 12:10:00 AM
Surr: BFB	92.5	37.7-212		%Rec	1	12/16/2022 12:10:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 12:10:00 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 12:10:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 12:10:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 12:10:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/16/2022 12:10:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	59		mg/Kg	20	12/20/2022 7:06:52 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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS18
Project: Seymor 6 **Collection Date:** 12/8/2022 12:45:00 PM
Lab ID: 2212586-035 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	290	14		mg/Kg	1	12/16/2022 5:48:08 PM
Motor Oil Range Organics (MRO)	310	48		mg/Kg	1	12/16/2022 5:48:08 PM
Surr: DNOP	121	21-129		%Rec	1	12/16/2022 5:48:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2022 12:29:00 AM
Surr: BFB	93.8	37.7-212		%Rec	1	12/16/2022 12:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 12:29:00 AM
Toluene	ND	0.050		mg/Kg	1	12/16/2022 12:29:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2022 12:29:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/16/2022 12:29:00 AM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	12/16/2022 12:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 7:19:16 PM

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
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 Quanitative Limit
RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY **Client Sample ID:** SS19
Project: Seymor 6 **Collection Date:** 12/8/2022 12:55:00 PM
Lab ID: 2212586-036 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **DGH**
Diesel Range Organics (DRO)	64	15		mg/Kg	1	12/18/2022 6:04:53 PM
Motor Oil Range Organics (MRO)	83	49		mg/Kg	1	12/18/2022 6:04:53 PM
Surr: DNOP	120	21-129		%Rec	1	12/18/2022 6:04:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/16/2022 1:08:00 AM
Surr: BFB	93.2	37.7-212		%Rec	1	12/16/2022 1:08:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.025		mg/Kg	1	12/16/2022 1:08:00 AM
Toluene	ND	0.050		mg/Kg	1	12/16/2022 1:08:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/16/2022 1:08:00 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/16/2022 1:08:00 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	12/16/2022 1:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 7:31:40 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 Quanitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report
Lab Order **2212586**
Date Reported: **1/4/2023**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY
Client Sample ID: SS20
Project: Seymor 6
Collection Date: 12/8/2022 12:55:00 PM
Lab ID: 2212586-037 **Matrix:** SOIL **Received Date:** 12/9/2022 7:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **SB**
Diesel Range Organics (DRO)	280	14		mg/Kg	1	12/16/2022 6:36:03 PM
Motor Oil Range Organics (MRO)	290	48		mg/Kg	1	12/16/2022 6:36:03 PM
Surr: DNOP	117	21-129		%Rec	1	12/16/2022 6:36:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **CCM**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/16/2022 1:28:00 AM
Surr: BFB	100	37.7-212		%Rec	1	12/16/2022 1:28:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: **CCM**
Benzene	ND	0.024		mg/Kg	1	12/16/2022 1:28:00 AM
Toluene	ND	0.049		mg/Kg	1	12/16/2022 1:28:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/16/2022 1:28:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/16/2022 1:28:00 AM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	12/16/2022 1:28:00 AM
EPA METHOD 300.0: ANIONS						Analyst: **JMT**
Chloride	ND	60		mg/Kg	20	12/20/2022 7:44:04 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 Quanitative 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#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **MB-72198** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72198** RunNo: **93415**
Prep Date: **12/19/2022** Analysis Date: **12/20/2022** SeqNo: **3368975** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72198** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72198** RunNo: **93415**
Prep Date: **12/19/2022** Analysis Date: **12/20/2022** SeqNo: **3368976** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.6	90	110			

Sample ID: **MB-72237** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72237** RunNo: **93446**
Prep Date: **12/20/2022** Analysis Date: **12/20/2022** SeqNo: **3370463** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72237** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72237** RunNo: **93446**
Prep Date: **12/20/2022** Analysis Date: **12/20/2022** SeqNo: **3370464** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Sample ID: **MB-72216** SampType: **mblk** TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS** Batch ID: **72216** RunNo: **93449**
Prep Date: **12/20/2022** Analysis Date: **12/20/2022** SeqNo: **3370524** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: **LCS-72216** SampType: **lcs** TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS** Batch ID: **72216** RunNo: **93449**
Prep Date: **12/20/2022** Analysis Date: **12/20/2022** SeqNo: **3370525** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

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 Quanitative 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#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **2212586-022AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SS05**	Batch ID: **72133**	RunNo: **93356**
Prep Date: **12/15/2022**	Analysis Date: **12/16/2022**	SeqNo: **3366248** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	220	15	48.36	207.0	29.8	36.1	154			S
Surr: DNOP	6.1		4.836		127	21	129			

Sample ID: **2212586-022AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **SS05**	Batch ID: **72133**	RunNo: **93356**
Prep Date: **12/15/2022**	Analysis Date: **12/16/2022**	SeqNo: **3366249** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	240	15	49.02	207.0	76.4	36.1	154	9.89	33.9	
Surr: DNOP	5.6		4.902		115	21	129	0	0	

Sample ID: **LCS-72133**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72133**	RunNo: **93356**
Prep Date: **12/15/2022**	Analysis Date: **12/16/2022**	SeqNo: **3366255** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	15	50.00	0	88.0	64.4	127			
Surr: DNOP	4.6		5.000		92.7	21	129			

Sample ID: **MB-72133**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72133**	RunNo: **93356**
Prep Date: **12/15/2022**	Analysis Date: **12/16/2022**	SeqNo: **3366256** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	13		10.00		133	21	129			S

Sample ID: **MB-72113**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72113**	RunNo: **93339**
Prep Date: **12/15/2022**	Analysis Date: **12/16/2022**	SeqNo: **3367124** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		91.4	21	129			

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 Quanitative 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#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **LCS-72113**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72113**	RunNo: **93339**
Prep Date: **12/15/2022**	Analysis Date: **12/16/2022**	SeqNo: **3367125** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	15	50.00	0	101	64.4	127			
Surr: DNOP	4.8		5.000		95.2	21	129			

Sample ID: **LCS-72272**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72272**	RunNo: **93500**
Prep Date: **12/22/2022**	Analysis Date: **12/22/2022**	SeqNo: **3372931** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	50.00	0	94.9	64.4	127			
Surr: DNOP	6.7		5.000		134	21	129			S

Sample ID: **MB-72256**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72256**	RunNo: **93500**
Prep Date: **12/21/2022**	Analysis Date: **12/22/2022**	SeqNo: **3372932** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		118	21	129			

Sample ID: **MB-72272**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72272**	RunNo: **93500**
Prep Date: **12/22/2022**	Analysis Date: **12/22/2022**	SeqNo: **3372933** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	21	129			

Sample ID: **LCS-72256**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72256**	RunNo: **93500**
Prep Date: **12/21/2022**	Analysis Date: **12/22/2022**	SeqNo: **3374250** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.8		5.000		136	21	129			S

Sample ID: **LCS-72271**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72271**	RunNo: **93500**
Prep Date: **12/22/2022**	Analysis Date: **12/22/2022**	SeqNo: **3374252** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		117	21	129			

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 Quanitative 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#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **MB-72271**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72271**	RunNo: **93500**
Prep Date: **12/22/2022**	Analysis Date: **12/22/2022**	SeqNo: **3374254** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		111	21	129			

Sample ID: **LCS-72368**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **72368**	RunNo: **93614**
Prep Date: **12/29/2022**	Analysis Date: **12/29/2022**	SeqNo: **3378145** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	15	50.00	0	89.3	64.4	127			
Surr: DNOP	5.8		5.000		115	21	129			

Sample ID: **MB-72368**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **72368**	RunNo: **93614**
Prep Date: **12/29/2022**	Analysis Date: **12/29/2022**	SeqNo: **3378147** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	15								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		110	21	129			

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 Quanitative 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#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **lcs-72034**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72034**	RunNo: **93307**
Prep Date: **12/12/2022**	Analysis Date: **12/15/2022**	SeqNo: **3363273** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.5	72.3	137			
Surr: BFB	1800		1000		182	37.7	212			

Sample ID: **mb-72034**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72034**	RunNo: **93307**
Prep Date: **12/12/2022**	Analysis Date: **12/15/2022**	SeqNo: **3363274** 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	890		1000		89.0	37.7	212			

Sample ID: **lcs-72043**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365082** 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	95.2	72.3	137			
Surr: BFB	2200		1000		216	37.7	212			S

Sample ID: **mb-72043**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365083** 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		102	37.7	212			

Sample ID: **2212586-026AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS09**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365098** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.32	0	90.4	70	130			
Surr: BFB	2000		972.8		207	37.7	212			

Sample ID: **2212586-026AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS09**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365099** Units: **mg/Kg**

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **2212586-026AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **SS09**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365099** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.34	0	93.1	70	130	2.97	20	
Surr: BFB	2000		973.7		206	37.7	212	0	0	

Sample ID: **2212586-006ams**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WS06**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365318** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.9	24.30	0	89.1	70	130			
Surr: BFB	1700		971.8		171	37.7	212			

Sample ID: **2212586-006amsd**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **WS06**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365319** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.32	0	86.8	70	130	2.54	20	
Surr: BFB	1600		972.8		169	37.7	212	0	0	

Sample ID: **lcs-72038**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365337** 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	95.8	72.3	137			
Surr: BFB	1800		1000		181	37.7	212			

Sample ID: **mb-72038**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365338** 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	830		1000		82.6	37.7	212			

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 Quanitative 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#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **LCS-72034**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72034**	RunNo: **93307**
Prep Date: **12/12/2022**	Analysis Date: **12/15/2022**	SeqNo: **3363278** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	93.4	80	120			
Toluene	0.96	0.050	1.000	0	95.6	80	120			
Ethylbenzene	0.95	0.050	1.000	0	94.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	95.0	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.6	70	130			

Sample ID: **mb-72034**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72034**	RunNo: **93307**
Prep Date: **12/12/2022**	Analysis Date: **12/15/2022**	SeqNo: **3363279** 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		89.3	70	130			

Sample ID: **lcs-72043**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365123** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.4	80	120			
Toluene	0.94	0.050	1.000	0	94.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.9	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	70	130			

Sample ID: **mb-72043**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365124** 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	1.1		1.000		106	70	130			

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 Quanitative 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#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **2212586-027AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SS10**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365140** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9950	0	89.6	68.8	120			
Toluene	0.93	0.050	0.9950	0	93.3	73.6	124			
Ethylbenzene	0.93	0.050	0.9950	0	93.1	72.7	129			
Xylenes, Total	2.8	0.10	2.985	0	92.2	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9950		104	70	130			

Sample ID: **2212586-027AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **SS10**	Batch ID: **72043**	RunNo: **93340**
Prep Date: **12/13/2022**	Analysis Date: **12/15/2022**	SeqNo: **3365141** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	92.1	68.8	120	3.26	20	
Toluene	0.94	0.050	1.000	0	93.8	73.6	124	1.02	20	
Ethylbenzene	0.93	0.050	1.000	0	93.4	72.7	129	0.814	20	
Xylenes, Total	2.8	0.10	3.000	0	92.7	75.7	126	1.04	20	
Surr: 4-Bromofluorobenzene	1.2		1.000		116	70	130	0	0	

Sample ID: **2212586-007ams**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **WS07**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365355** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9814	0	82.5	68.8	120			
Toluene	0.83	0.049	0.9814	0	84.4	73.6	124			
Ethylbenzene	0.83	0.049	0.9814	0	84.2	72.7	129			
Xylenes, Total	2.5	0.098	2.944	0.01929	83.5	75.7	126			
Surr: 4-Bromofluorobenzene	0.85		0.9814		86.1	70	130			

Sample ID: **2212586-007amsd**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **WS07**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365356** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	0.9911	0	85.3	68.8	120	4.26	20	
Toluene	0.86	0.050	0.9911	0	86.6	73.6	124	3.48	20	
Ethylbenzene	0.85	0.050	0.9911	0	86.0	72.7	129	3.04	20	
Xylenes, Total	2.5	0.099	2.973	0.01929	85.0	75.7	126	2.72	20	
Surr: 4-Bromofluorobenzene	0.83		0.9911		83.6	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212586**

04-Jan-23

Client: HILCORP ENERGY

Project: Seymor 6

Sample ID: **LCS-72038**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365373** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.0	80	120			
Toluene	0.86	0.050	1.000	0	85.9	80	120			
Ethylbenzene	0.84	0.050	1.000	0	84.3	80	120			
Xylenes, Total	2.5	0.10	3.000	0	84.2	80	120			
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	70	130			

Sample ID: **mb-72038**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **72038**	RunNo: **93307**
Prep Date: **12/13/2022**	Analysis Date: **12/16/2022**	SeqNo: **3365375** 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	0.82		1.000		81.5	70	130			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: HILCORP ENERGY Work Order Number: 2212586 RcptNo: 1

Received By: Tracy Casarrubias 12/9/2022 7:35:00 AM

Completed By: Tracy Casarrubias 12/9/2022 9:23:18 AM

Reviewed By: JP 12-9-22

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 12/9/22

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: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.7	Good	Yes			

Chain-of-Custody Record

Client: Hilcorp

Attn: Mitch Killough

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Seymor 6

Project #:

Project Manager: Stuart Hyde

Sampler: Grey P / Brandon S

On Ice: ☑ Yes ☐ No

# of Coolers: 1

Cooler Temp(Including CF): 0.6+0.1=0.7 (°C)

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www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212586	BTEX / MTBE / TMB's (8021)	TPH 8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/8	1020	Soil	WS 01	1, 4oz	Cool	001										
	1025		WS 02			002										
	1030		WS 03			003										
	1035		WS 04			004										
	1040		WS 05			005										
	1045		WS 06			006										
	1050		WS 07			007										
	1055		WS 08			008										
	1100		WS 09			009										
	1105		WS 10			010										
	1110		WS 11			011										
	1114		WS 12			012										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/8/22	1437	Gregory Padilla			12/8/22	1437
12/8/22	1815			Courier	12/9/22	7:35

Remarks: cc shyde gpadilla@ensolum.com

Chain-of-Custody Record

Client: Hilcorp

Attn: Mitch Killough

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Seymar 6

Project #:

Project Manager: Stuart Hyde

Sampler: Greg P/ Brandon S

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(Including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212386	BTEX / MTBE / TMB's (8021)	TPH 8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/8	1118	Soil	WS 13	1, 4oz	cool	013										
	1123		WS 14			014										
	1126		WS 15			015										
	1130		WS 16			016										
	1133		WS 17			017										
	1310		SS 01			018										
	1312		SS 02			019										
	1315		SS 03			020										
	1318		SS 04			021										
	1320		SS 05			022										
	1322		SS 06			023										
	1323		SS 07			024										

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/8/22	1437	Gregory Pollen			12/8/22	1437
12/8/22	1819			Courier	12/9/22	7:35

Remarks: CC Shyde gpalese @ ensolum.com

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

Chain-of-Custody Record

Client: Hilcorp

Attn: Mitch Killough

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance ☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:

☒ Standard ☐ Rush

Project Name: Skymor 6

Project #:

Project Manager: Stuart Hyde

Sampler: Greg P/ Brandon S

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(Including CF): (°C)

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212586	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/6	1324	Soil	SS 08	1-4oz	Cool	025										
	1326		SS 09			026										
	1328		SS 10			027										
	1330		SS 11			028										
	1332		SS 12			029										
	1334		SS 13			030										
	1336		SS 14			031										
	1338		SS 15			032										
	1340		SS 16			033										
	1230		SS 17			034										
	1245		SS 18			035										
	1255		SS 19			036										

Date	Time	Relinquished by	Received by	Via	Date	Time
12/8/22	1437	Gregory Pelkey			12/8/22	1437
12/8/22	1819				12	

Remarks: cc shyde ypalese @ ensolum.com

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Chain-of-Custody Record

Client: Hilcorp
Attn: Mitch K

Mailing Address:

Phone #:

email or Fax#:

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

Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other

☒ EDD (Type) PDF

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
Seymor b

Project #:

Project Manager:
Stuart Hyde

Sampler: Greg P/Brandon S

On Ice: ☐ Yes ☐ No

# of Coolers:

Cooler Temp(Including CF): (°C)

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

Analysis Request

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No. 2212586	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO_3, NO_2, PO_4, SO_4	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
12/8	1255	Soil	SS20	1, 4oz	cool	037	X	X					X			

Date:	Time:	Relinquished by:	Received by:	Via:	Date Time
12/8/22	1438	Gregory Pelton			12/8/22 1435
12/8/22	1819				

Remarks:
cc shyde gpalese@ensolum.com

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

ENSOLUM

APPENDIX D

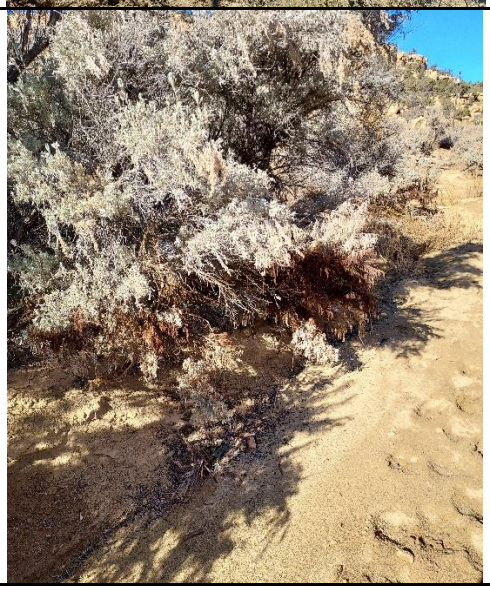
Site Photographs

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 1 View looking north at the impacted area on the well pad. Photo taken December 8, 2022.	
Photograph 2 View looking east at the eastern edge of the Seymour 6 well pad. Photo taken December 8, 2022.	

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
776 East 2nd Ave | Durango, CO 81301 | ensolum.com

SITE PHOTOGRAPHS
Seymour 6
San Juan County, New Mexico
Hilcorp Energy Company

Photograph 3 View looking south where release entered the dry wash. Photo taken December 8, 2022.		
Photograph 4 Impacted vegetation within the wash. Photo taken December 8, 2022.		

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

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

CONDITIONS

Action 175854

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 175854
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	OCD approves the updated remediation work plan within the report which includes future samples to be analyzed for TPH & chloride only. Remediation due date is updated to June 23, 2023.	3/22/2023