Received by OCD: 5/8/2023 2:03:20 PM Form C-141 State of New Mexico

Oil Conservation Division

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Incident ID	nAPP2308124076
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?	<u>>100</u> (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

Page 3

- Data table of soil contaminant concentration data
- \square Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-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.

Received by OCD: 5/8/2023 2:03:20 PM Form C-141 State of New Me				Page 2 of		
			Incident ID	nAPP2308124076		
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regulations all operators are public health or the enviror failed to adequately investi addition, OCD acceptance and/or regulations. Printed Name: <u>Mitch</u>	ormation given above is true and complete to the e required to report and/or file certain release no ment. The acceptance of a C-141 report by the gate and remediate contamination that pose a th of a C-141 report does not relieve the operator of <u>Killough</u>	otifications and per e OCD does not rel meat to groundwate of responsibility for 	form corrective actions for re- lieve the operator of liability s er, surface water, human healt	eleases which may endanger should their operations have th or the environment. In federal, state, or local laws		
OCD Only Received by:		_ Date:				

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Oil Conservation Division

<u>Remediation Plan Checklist</u>: Each of the following items must be included in the plan.

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Remediation 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: ______ Date: _______
 email:
 mkillough@hilcorp.com
 Telephone:
 713-757-5247
 OCD Only Received by: Date: Approved with Attached Conditions of Approval Denied Deferral Approved Approved Signature: Nelson Velez Date: 05/15/2023 **1. OCD approves SVE Pilot Test.**

2. Hilcorp to perform the SVE pilot test within 60-days of BLM and NMOCD (July 14, 2023) approval of this Site Characterization Report and Remediation Work Plan.

3. Submittal of a SVE Pilot Test Report along with a Final Remediation Plan are due by September 12, 2023.



May 2, 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: Site Investigation Report and Remediation Work Plan L C Kelly 1E San Juan County, New Mexico Hilcorp Energy Company NMOCD Incident Number: nAPP2308124076

To Whom it May Concern:

Ensolum, LLC (Ensolum), on behalf of Hilcorp Energy Company (Hilcorp), presents this *Site Investigation Report and Remediation Work Plan* for a mixed fluid release at the L C Kelly 1E natural gas production well (Site). The Site is located on land managed by the Bureau of Land Management (BLM) in Unit C, Section 5, Township 30 North, Range 12 West in San Juan County, New Mexico (Figure 1).

SITE BACKGROUND

On March 8, 2023, Hilcorp personnel discovered approximately 45 barrels (bbls) of fluid (35.07 bbls of condensate and 10.02 bbls of produced water) released from a drain valve on a 300-bbls condensate storage tank. Due to freezing temperatures, ice had formed on the inside of the drain valve, subsequently causing it to rupture. The released fluids stayed within the secondary containment earthen berm, with the obvious impacted area measuring approximately 20 feet by 6 feet in areal extent. No fluids were recovered after discovery of the release. The release volume was determined based on the operator's monthly tank gauging data. Hilcorp reported the release via email to the New Mexico Oil Conservation Division (NMOCD) and BLM on March 9, 2023. Hilcorp subsequently submitted a Form C-141, *Release Notification* to the NMOCD and a *Major Undesirable Event Report* to the BLM on March 22, 2023. Agency release notifications are attached as Appendix A. The release was assigned NMOCD Incident Number nAPP2308124076.

SITE CLOSURE CRITERIA

The Site is located on BLM surface approximately 5 miles north of Flora Vista, New Mexico. As part of the Site investigation, local geology/hydrogeology and nearby sensitive receptors were assessed in accordance with Title 19, Chapter 15, Part 29, Sections 11 and 12 (19.15.29.11 and 12) of the New Mexico Administrative Code (NMAC). This information is further discussed below.

GEOLOGY AND HYDROGEOLOGY

The Site is located within the Nacimiento Geologic Formation. In the report titled "Hydrogeology and Water Resources of San Juan Basin, New Mexico" (Stone, et. al., 1983), the Nacimiento

Formation is characterized by interbedded black carbonaceous mudstones and white, coarsegrained sandstones, which ranges in thickness from 418 feet to 2,232 feet. The hydrologic properties of the Nacimiento Formation display variable hydrologic properties dependent on location. Where sufficient yield is present, the primary use of water from this formation is for domestic and/or livestock supply. The Nacimiento Formation in underlain by the Ojo Alamo sandstone (Stone et. al., 1983).

POTENTIAL SENSITIVE RECEPTORS

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

The closest surface water feature is an unnamed dry wash located approximately 1,300 feet south of the Site. The Site is greater than 200 feet from any lakebed, sinkhole, or playa lake, and greater than 300 feet from any wetland (Figure 1). The closest fresh-water well is NMOSE permitted well SJ-02145 (Appendix B), located approximately 3,900 feet east of the Site. The recorded depth to water on the NMOSE Point of Diversion (POD) summary is 110 feet below ground surface (bgs). Wellhead protection areas, springs, or domestic/stock wells are not located within a ½-mile from the Site. The Site is not within a 100-year floodplain, overlying a subsurface mine, or located within an area underlain by unstable geology (area designated as low potential karst by the BLM). Schools, hospitals, institutions, churches, and/or other occupied permanent residence or structures are not located within 300 feet of the Site.

SITE CLOSURE CRITERIA

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

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

SITE INVESTIGATION ACTIVITIES

Hilcorp retained Ensolum to perform delineation activities between April 11 and April 13, 2023 to identify the horizontal and vertical extent of impacts related to the Site release. Ensolum submitted notice of sampling to the NMOCD and BLM on April 3, 2023 (Appendix C). Drilling was performed by Enviro-Drill, Inc. using a Central Mining Equipment (CME)-75 hollow-stem auger drill rig. Six borings (BH01 through BH06) were advanced to depths ranging from 22 feet to 50 feet bgs during this investigation in the locations presented on Figure 2.

During drilling, an Ensolum geologist logged soil lithology and inspected the soil for petroleum hydrocarbon staining and odors. Soil descriptions were noted in field books/boring logs and generally followed the Unified Soil Classification System (USCS), as specified in American Society for Testing and Materials (ASTM) method D2488. Soil samples were also field screened



for the presence of organic vapors using a calibrated photoionization detector (PID), with results noted on the field boring logs (attached as Appendix D). In general, soil samples were collected from depth intervals indicating the greatest impacts based on field screening and PID measurements. Soil samples were collected directly into laboratory-provided jars and immediately placed on ice. Samples were submitted to Envirotech Laboratory (Envirotech) for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8260B, TPH-GRO, TPH-DRO, TPH-MRO following EPA Method 8015D, and chloride following EPA Method 300.0.

SOIL BORING RESULTS AND CONCLUSIONS

In general, fine to coarse-grained, poorly sorted sand and silty sand were encountered in all borings at the Site. With the exception of boring BH01, all borings met refusal on sandstone bedrock. Field indications of petroleum hydrocarbons, including staining, odors, and/or elevated PID readings, were noted in borings BH01, BH02, BH04, BH05, and BH06. Groundwater was not encountered in any of the borings during drilling.

Concentrations of total BTEX, TPH-GRO+DRO, and Total TPH exceeding the NMOCD Table I Closure Criteria were detected boring BH01 between the ground surface and approximately 10 feet bgs. Based on the release footprint within the secondary berm, field observations during drilling (strong petroleum odors and little to no soil staining), and analytical results, elevated concentrations of TPH and BTEX are likely due to the March 2023 release. Borings BH02, BH03, and BH04, advanced to the south, east, and north of the release area, respectively, did not contain concentrations of Site COCs exceeding Table I Closure Criteria.

Benzene, BTEX, and/or TPH concentrations were detected above the NMOCD Table I Closure Criteria in samples collected from borings BH05 and BH06, located to the west and southwest of the release area, respectively. Based on field observations of moderate to strong soil staining and odors, as well as significantly different ratios of GRO to DRO concentrations as compared to those detected in BH01, it is believed that elevated TPH and BTEX concentrations detected in borings BH05 and BH06 are from a historical release at the Site. A summary of analytical results is presented on Table 1 and depicted on Figure 3. Complete laboratory reports are attached in Appendix E.

Based on the activities and analytical results described above, impacted soil resulting from the release discovered on March 8, 2023 has been successfully delineated. Impacts appear to have largely remained within the footprint of the secondary containment berm and up to depths of 10 feet bgs, resulting in an estimated 200 to 300 cubic yards of impacted soil.

Impacts encountered in borings BH05 and BH06, thought to be from a historical release(s) at the Site, have not been delineated. Additionally, based on the location of and COC concentrations in boring BH06, impacted soil is likely present in off-pad locations. To-date, petroleum hydrocarbons have been detected to a depth of at least 22 feet bgs in this location and the total volume of impacted soil is unknown.

REMEDIATION WORK PLAN

Based on the extent of soil impacts, favorable soil lithology, the proximity of impacted soil to active equipment, and the likelihood of off-pad impacts, Ensolum recommends the use of soil vapor extraction (SVE) techniques to remediate soil at the Site. As described by the EPA, SVE is an insitu technique for the removal of volatile organic compounds (VOCs) and some semi-volatile organic compounds (SVOCs) from vadose zone soil through the application of vacuum to the subsurface. When air is removed from the soil, contaminants are volatilized and removed.



Depending on contaminant concentrations in the removed air, the SVE system may emit the exhaust directly to the atmosphere.

Based on field screening observations during drilling, boring BH01 was completed as nested SVE wells SVE01 and SVE02. Additionally, borings BH02 (SVE03), BH04 (SVE04), BH05 (SVE05), and BH06 (SVE06) were completed as SVE wells to be used for future remediation. Screened casing was installed across the subsurface interval with the highest petroleum hydrocarbon impacts based on PID readings in order to direct the applied vacuum to these depth intervals. Well construction details are included on the boring logs attached as Appendix D. SVE wells were constructed with 2-inch diameter Schedule 40 polyvinyl chloride (PVC) casing and 2-inch Schedule 40 PVC 0.010-inch slotted screen. Wells were completed with 10-20 silica sand pack to 2 feet above the screened interval, then hydrated bentonite seal to the ground surface. SVE well locations are indicated on Figure 4.

SVE PILOT TEST

Ensolum recommends performing a SVE pilot test to evaluate the effectiveness of SVE for the Site and, if applicable, assess the Site-specific flow and vacuum rates required to volatilize and remove contaminants from the impacted subsurface. Data collected during the SVE pilot test will be used to estimate the system's radius-of-influence (ROI) and radius-of-effect (ROE) to determine well spacing and the need for additional SVE wells at the Site.

A vacuum truck will be used to remove air at one SVE well at a time (used as the "extraction" well). Flow and vacuum rates will be measured at the extraction well using an adjustable manifold and vacuum responses will be measured in the other SVE wells at the Site (used as "observation" wells). The pilot-test manifold will be used to control and incrementally increase vacuum being applied to the extraction well to assess the relationship between flow and vacuum. Vacuum measurements collected at the observation wells will be used to assess the ROI and ROE achievable at the Site. The following general procedures will be used to perform the SVE pilot test:

- 1. Collect initial VOC measurements using a PID from all SVE wells.
- 2. Attach a flexible hose from the vacuum truck to the SVE pilot test manifold. Connect the manifold to the first extraction well, start the vacuum truck, and slowly open the valve to increase flow and vacuum at the well.
- 3. During each test, apply a vacuum of approximately 10 inches of water column (IWC) and allow flow/vacuum measurements to stabilize for up to 15 minutes. Collect vacuum measurements and PID readings at each observation well once flow and vacuum have stabilized.
- 4. Increase the extraction well vacuum by 10 to 20 IWC, allow the vacuum/flow to stabilize, and collect observation well measurements as described below. Continue Steps 3 and 4 until 100 IWC is being applied at the extraction well or the vacuum truck capabilities are reached
- 5. Close the manifold valve, allow the vacuum to dissipate, and collect PID readings from each observation well.
- 6. Collect air samples from the extraction wells in 1-liter Tedlar[®] bags and submit to Hall for analysis of BTEX and total volatile petroleum hydrocarbons (TVPH).

After completion of the SVE pilot test, Ensolum will prepare a *Pilot Test Report* summarizing the results of the test and recommendations for the design and construction of the full-scale SVE system. The report will include the calculations for ROI and ROE, system specifications required

ENSOLUM

to remediate subsurface impacts, and, if determined feasible, an operation and maintenance (O&M) plan for the system and the proposed remediation schedule and timeline.

ADDITIONAL DELINEATION WORK PLAN

Based on the Site investigation results described above, additional drilling and sampling work is required to fully delineate the vertical and lateral extent of impacts at the Site. Proposed boring locations for the additional investigation are presented on Figure 4. Due to the location of the proposed borings, Hilcorp will need to obtain permission from the BLM prior to conducting any off-pad work.

SCHEDULE

Hilcorp and Ensolum will perform the SVE pilot test within 60 days of BLM and NMOCD approval of this *Site Characterization Report and Remediation Work Plan*. In order to complete the SVE pilot test and determine appropriate SVE well spacing (if applicable), additional drilling and investigation work will commence after the SVE pilot test has been completed. It is anticipated that drilling activities can begin within 90 days of BLM approval of off-pad locations, pending driller availability. An *Updated Site Investigation Report and Remediation Work Plan* will then be prepared summarizing the results of the additional delineation work and SVE pilot test results within 60 days of completion of drilling activities.

REFERENCES

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

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

Sincerely, Ensolum, LLC

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

Attachments:

- Figure 1: Site Location Map
- Figure 2: Borehole Locations
- Figure 3: Soil Analytical Results
- Figure 4: SVE Wells and Proposed Boring Locations
- Table 1:
 Delineation Soil Sample Analytical Results
- Appendix A: Agency Release Notifications
- Appendix B: NMOSE Point of Diversion Summary
- Appendix C: Agency Sampling Notifications
- Appendix D: Boring Logs

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Appendix E: Laboratory Analytical Reports

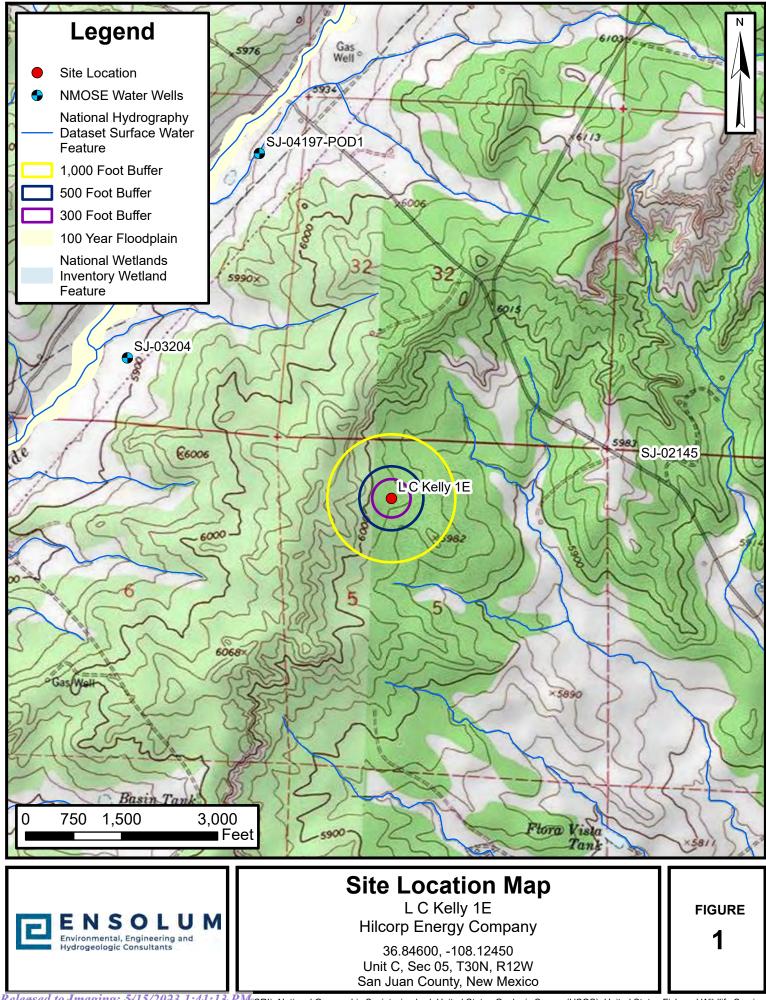
Ushley L. ager

Ashley Ager, MS, PG Program Director, Geologist (970) 946-1093 aager@ensolum.com



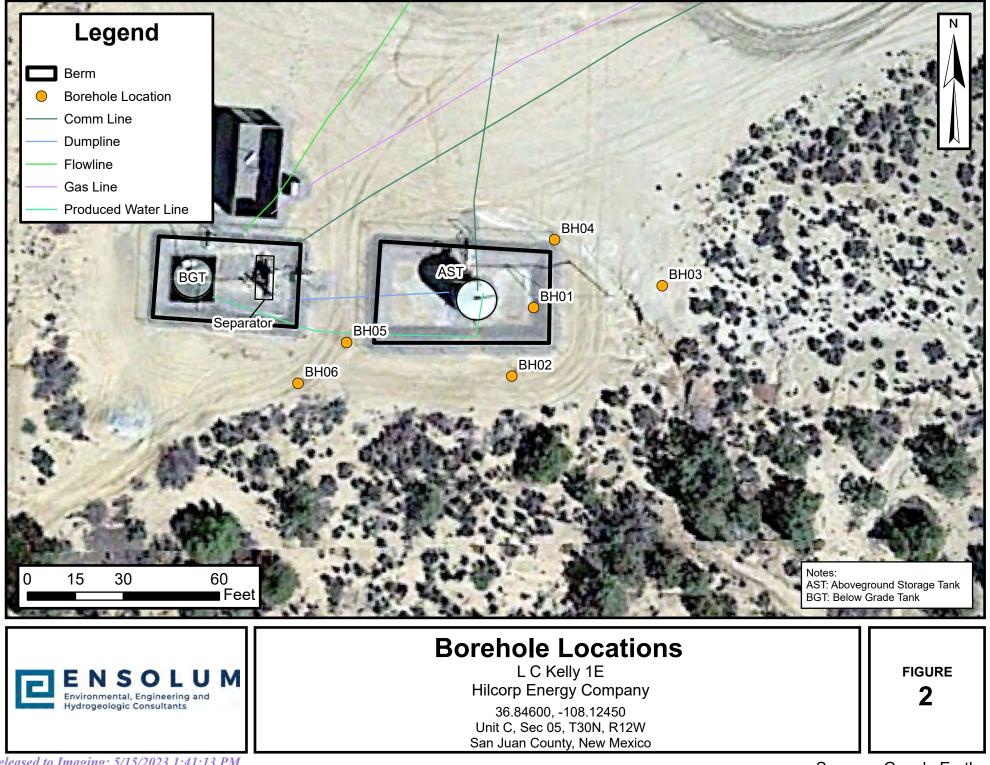
FIGURES

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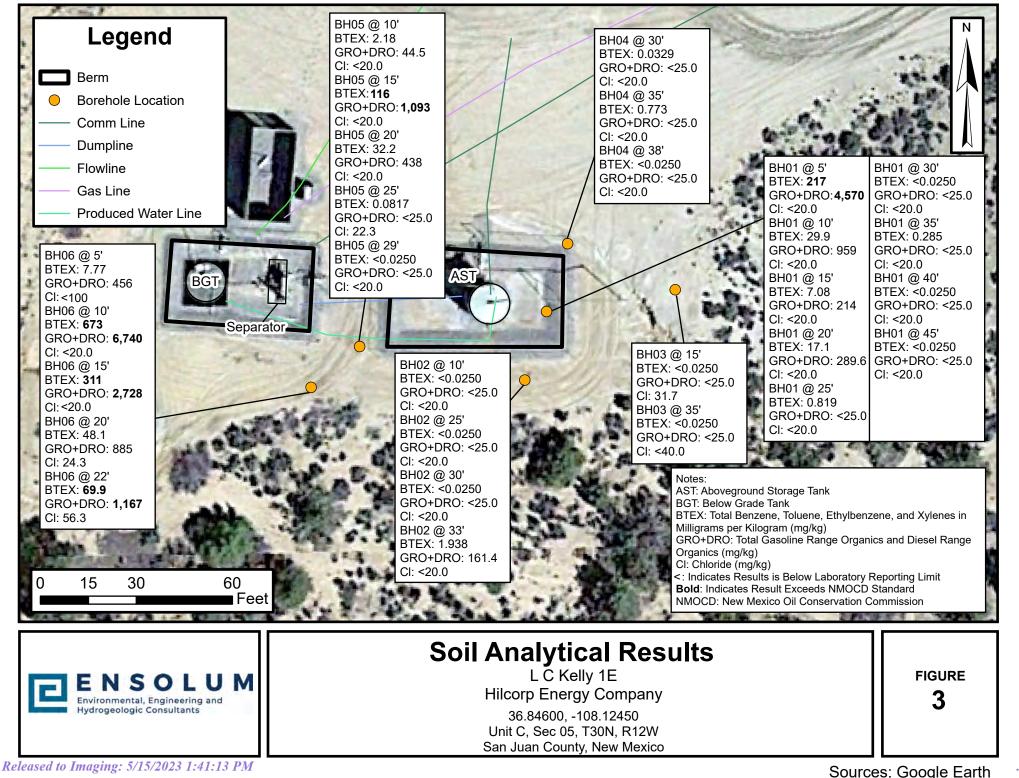
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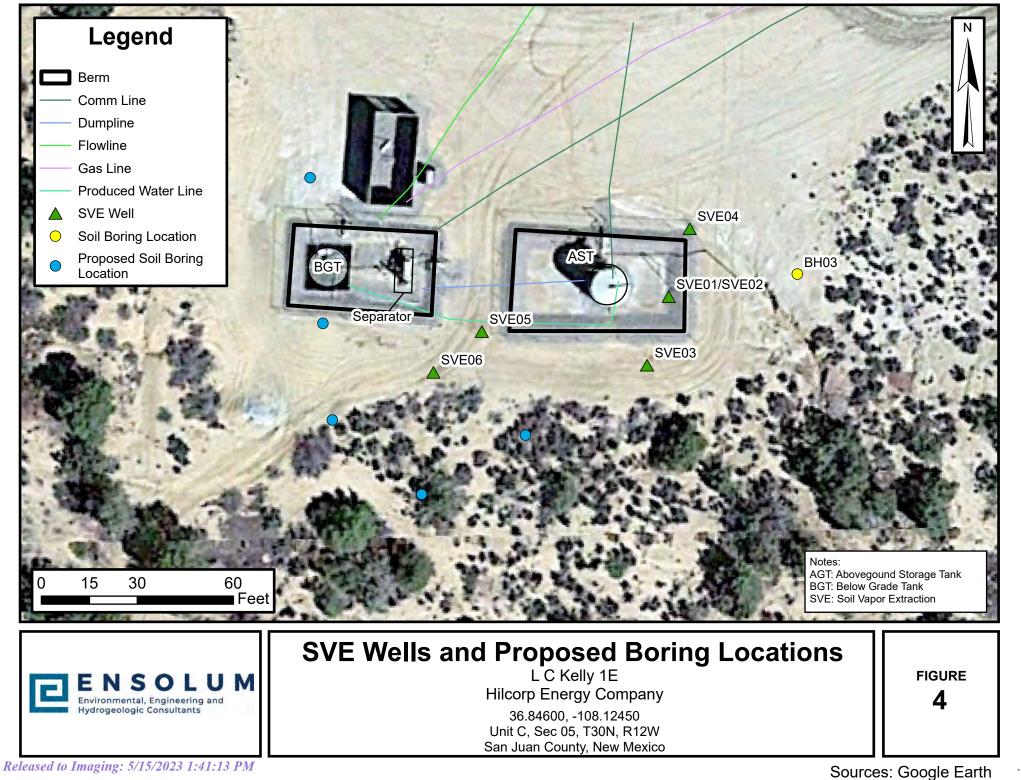
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Sources: Google Earth

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TABLES

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	TABLE 1 DELINEATION SOIL SAMPLE ANALYTICAL RESULTS L C Kelly 1E									
					p Energy Comp n County, New					
Sample Designation	Date	Depth (feet)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	TPH GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
	NMOCD Closure Criteria for Soils Impacted by a Release (Groundwater >100 feet) 10 50 NE NE NE 1,000 2,500 20,000									
BH01 @ 5'	4/11/2023	5	<1.25	217	2,130	2,440	50.4	4,570	4,620	<20.0
BH01 @ 10'	4/11/2023	10	< 0.0500	29.9	433	526	<50.0	959	959	<20.0
BH01 @ 15'	4/11/2023	15	<0.0250	7.08	120	94.2	<50.0	214	214	<20.0
BH01 @ 20'	4/11/2023	20	<0.0250	17.1	260	296	<50.0	556	556	<20.0
BH01 @ 25'	4/11/2023	25	<0.0250	0.819	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01 @ 30'	4/11/2023	30	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01 @ 35'	4/11/2023	35	<0.025	0.285	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01 @ 40'	4/11/2023	40	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH01 @ 45'	4/11/2023	45	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02 @ 10'	4/12/2023	10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02 @ 25'	4/12/2023	25	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02 @ 30'	4/12/2023	30	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH02 @ 33'	4/12/2023	33	<0.0250	1.938	56.4	105	<50.0	161	161	<20.0
BH03 @ 15'	4/12/2023	15	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	31.7
BH03 @ 35'	4/12/2023	35	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<40.0
BH04 @ 30'	4/12/2023	30	<0.0250	0.0329	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH04 @ 35'	4/12/2023	35	0.0455	0.773	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH04 @ 38'	4/12/2023	38	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH05 @ 10'	4/13/2023	10	<0.0250	2.18	44.5	<25.0	<50.0	44.5	44.5	<20.0
BH05 @ 15'	4/13/2023	15	1.22	116	937	156	<50.0	1,093	1,093	<20.0
BH05 @ 20'	4/13/2023	20	0.974	32.2	202	236	<50.0	438	438	<20.0
BH05 @ 25'	4/13/2023	25	<0.0250	0.0817	<20.0	<25.0	<50.0	<25.0	<50.0	22.3
BH05 @ 29'	4/13/2023	29	<0.0250	<0.0250	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0
BH06 @ 5'	4/13/2023	5	<0.0250	8.51	181	275	<50.0	456	456	<100
BH06 @ 10'	4/13/2023	10	12.2	673	5,360	1,380	<50.0	6,740	6,740	<20.0
BH06 @ 15'	4/13/2023	15	5.49	311	2,280	448	<50.0	2,728	2,728	<20.0
BH06 @ 20'	4/13/2023	20	0.448	48.1	515	370	<50.0	885	885	24.3
BH06 @ 22'	4/13/2023	22	0.333	69.9	651	516	138	1,167	1,305	56.3

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

<0.037: indicates result less than the stated laboratory reporting limit (RL)

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for Soils Impacted by a Release



APPENDIX A

Agency Release Notifications

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

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Incident ID	nAPP2308124076
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Hilcorp Energy Company	OGRID 372171
Contact Name Mitch Killough	Contact Telephone 713-757-5247
Contact email mkillough@hilcorp.com	Incident # nAPP2308124076
Contact mailing address 1111 Travis Street, Houston, Texas 77002	

Location of Release Source

Latitude 36.8460274_

(NAD 83 in decimal degrees to 5 decimal places)

Site Name L C Kelly 1E	Site Type Well
Date Release Discovered: 3/8/2023 @ 01:50 pm (MT)	API# 30-045-25349

Unit Letter	Section	Township	Range	County
С	05	30N	12W	San Juan

Surface Owner: State Federal Tribal Private

Nature and Volume of Release

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls) 10.02 bbls	Volume Recovered (bbls) 0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls) 35.07 bbls	Volume Recovered (bbls) 0 bbls
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

A release of approximately 45.09 bbls fluid (35.07 bbls condensate, 10.02 bbls produced water) was released from a drain valve on a 300-bbl condensate storage tank. Due to freezing temperatures, ice formed inside the drain valve causing a rupture to occur. The released fluids migrated east within the secondary containment area settling into an area measuring approximately 20 ft x 6 ft. Although discharged fluids did not migrate laterally outside secondary containment, no fluids could be recovered due to soaking into the ground surface.

OCD / BLM – FFO will be notified 48 hours prior to sampling. The spill amount was determined by operator's monthly tank gauging data.

Oil Conservation Division

	Page 18 of 9
Incident ID	nAPP2308124076
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	The volume released exceeded 25 bbls, as defined in NMAC 19.15.29.7.
Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Yes. Following discover	y, a 24-hour notification (attached) was submitted via email by Mitch Killough (Hilcorp) to Nelson Velez,
Abiodun Adeloye (BLM-	FFO), and OCD.Enviro on 3/9/2023 at 10:05 am (MT). MUE filing with the BLM-FFO is attached as well.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

 \square 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 <u>not</u> been undertaken, explain why:

In the case of this release, the spilled fluids soaked vertically into the ground surface beneath the storage tank. If any free liquids could have been recovered, Hilcorp would have certainly done so.

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: <u>Mitch Killough</u>	Title: <u>Environmental Specialist</u>
Signature:	Date:03/22/2023
email:mkillough@hilcorp.com	Telephone: <u>713-757-5247</u>
OCD Only	
Received by: Jocelyn Harimon	Date:03/22/2023

Mitch Killough

From:	Mitch Killough							
Sent:	Thursday, March 9, 2023 11:05 AM							
To:	Velez, Nelson, EMNRD							
Cc:	Adeloye, Abiodun A; OCD.Enviro@state.nm.us; Matt Henderson; Christopher Bramwell							
Subject:	Hilcorp Energy Company - 24-Hour Release Notification - LC Kelly 1E							
Tracking:	Recipient	Delivery						
	Velez, Nelson, EMNRD							
	Adeloye, Abiodun A							
	OCD.Enviro@state.nm.us							
	Matt Henderson							
	Christopher Bramwell Delivered: 3/9/2023 11:06 AM							

Hi Nelson.

On 3/8/2023 at approximately 1:50 pm (MT), Hilcorp Energy Company (Hilcorp) discovered a 45.09-bbl release of condensate/produced water at the LC Kelly 1E (API: 30-045-25349 / Lease No: NMSF081239) in San Juan County, NM (36.846005, -108.124232). Surface owner is BLM. Based on initial assessments conducted by Hilcorp personnel, the cause of the release was determined to be weather-related. Ice formed inside a drain valve on a 300-bbl condensate storage tank causing the valve to split. This event led to the release of product into the secondary containment area surrounding the storage tank. Although the fluids did not migrate horizontally outside of secondary containment, the fluids soaked into the ground surface beneath the bermed area. No fluid could be recovered. At this time, operations has replaced the drain valve on the storage tank. Hilcorp will keep BLM-FFO and NMOCD in the loop on next steps.

An initial C-141 will be submitted to the NMOCD no later than 3/23/2023, along with an Undesirable Report (UE) to the BLM-FFO.

Please contact me if you have any questions. Thanks.



Mitch Killough

Environmental Specialist Hilcorp Energy Company 1111 Travis Street Houston, TX 77002 713-757-5247 (office) 281-851-2338 (cell) mkillough@hilcorp.com



United States Department of Interior Bureau of Land Management Major Undesirable Event Report

Report Type: Initi	al 24-Hour 🔳	15-Day/Final	Other,	/Follow-up					
BLM Field Office:	Farmington		State: NM						
BLM Contact: Abio	dun Adeloye (Emm	anuel)	Date of this Report: 03/09/2023						
Company Official I	Reporting to BLM	1: Mitch Killough							
Operator: Hilcorp En	ergy Company								
Date/Time of Occu		3 13:50 pm	Date/Time E	LM Notifie	ed:03/09/2023 12:45 pm				
Field/Unit Name: B		· ·	Lease Numb						
	unty: San Juan	Twp:30N	Rng: 12W	Sec:	5 Qtr: NENW				
Latitude/ Longitude		-							
Surface Ownership		Federal:	Indian: 🗆	State: 🗆	FEE 🗆				
Type and Relevan	t Details of Even	t							
Oil Spill□	Oil/Water S	pill	Gas Venting		Toxic Fluid Spill□				
Saltwater Spill	Other Spill ((Specific)	Blowout		Fire□				
Injury	Fatality		Property Dat	nage□	Explosion□				
Nature and Cause c	of Event: Drain valve	on a 300-bbl condens e released into the sec	sate storage tank s	plit due to ice fo	ormation allowing 45.09 bbls				
Environmental Imp	act: Spilled fluids did r	not migrate horizontally ound surface below the	y outside seconda ne secondary conta	ry containment ainment area ar	(unlined). However, the fluids nd no fluids could be				
	recovered.	ſ	,						
Time Required to C	,		111 337		C C				
Volume Discharged			-	<u>10.02</u> bbls	Gas: mcf				
Volumes Recovere	d:		bbls Water:						
Net Volume Lost:		Oil: <u>35.07</u>		<u>10.02</u> bbls					
Action Taken to Co	ontrol Event: ^{Upon}	discovery, Hilcorp per	sonnel took the sto	brage tank out o	of surface.				
Resulting Damage:	The fluids soaked into t	he ground surface be	low the secondary	containment ar	ea and no fluids could be				
Resulting Damage.	recovered. The drain va	alve also needed repla	acement.						
Clean-Up Procedur	es: The remaining fluid	s were drained from th	he storage tank to	the pit tank. No	fluids could be recovered				
	from the ground su	nace.							
Cause/Extent of Pe	rsonal Injury: None	9							
Actions the operato			t a recurrence	of the incid	lent:				
The drain valve was repla	aced on 3/8/2023 and is	working properly.							
Agency	Agency Name		Contact Nan	ne	Date/Time				
Notification List:	NMOCD		Nelson Velez		03/09/2023 10:05 am				
(Federal/ State/	NMOCD		OCD.Enviro		03/09/2023 10:05 am				
Local):									
				-					

.

Remarks: Include available Major Undesirable Events (MUE) history (attach additional sheet, if needed) for the past 3 years of the same well. Include pictures, if available.

Based on a review of the OCD Permitting Database, the last documented spill at this site occurred on 11/ 13/2007. No other spills or releases were identified by Hilcorp.

Note 1: Although this release was less than 100 bbls of total fluid, Hilcorp is submitting a MUE due to the site being located within the Glade Run RSA.

Note 2: All times above are reported as MT.



75 Suttle Street Durango, CO 81303 970.247.4220 Phone 970.247.4227 Fax www.greenanalytical.com

21 March 2023

Kevin Fredrickson Hilcorp 382 CR 3100 Aztec, NM 87410 RE: North

Enclosed are the results of analyses for samples received by the laboratory on 03/17/23 09:35. The data to follow was performed, in whole or in part, by Green Analytical Laboratories. Any data that was performed by a subcontract laboratory is included within the GAL report, or with an additional report attached.

If you need any further assistance, please feel free to contact me.

Sincerely,

Jerry D. all

Jeremy D Allen Laboratory Director

All accredited analytes contained in this report are denoted by an asterisk (*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at http://greenanalytical.com/certifications/

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water. TNI Certificate Number: T104704514-23-17

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water through the Colorado Department of Public Health and Environment and EPA region 8. TNI Certificate Number: T104704398-22-15



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Hilcorp	Project: Chloride	
382 CR 3100	Project Name / Number: North	Reported:
Aztec NM, 87410	Project Manager: Kevin Fredrickson	03/21/23 13:00

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received	Notes
L C Kelly 1E	2303176-01	Water	03/17/23 08:00	03/17/23 09:35	

Green Analytical Laboratories

Jerry S. all

Jeremy D Allen, Laboratory Director Released to Imaging: 5/15/2023 1:41:13 PMM The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

250

03/21/23 02:46

EPA300.0

Laboratories							www.Gr	eenAnalytic	al.com
Hilcorp			Project: Ch	loride					
382 CR 3100	Proje	Project Name / Number: North							
Aztec NM, 87410		Project Manager: Kevin Fredrickson							
L C Kelly 1E Area 2 2303176-01 (Produced Water)									
Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
General Chemistry									

13.9

mg/L

13900

250

Chloride*

AES

Green Analytical Laboratories

Jerry S. all

Jeremy D Allen, Laboratory Director Released to Imaging: 5/15/2023 1041013 PMM

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

www.GreenAnalytical.com



jeremy.allen@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

Hilcorp	Project: Chloride	
382 CR 3100	Project Name / Number: North	Reported:
Aztec NM, 87410	Project Manager: Kevin Fredrickson	03/21/23 13:00

General Chemistry - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B230636 - IC- Ion Chromatograph										
Blank (B230636-BLK1)	Prepared & Analyzed: 03/20/23									
Chloride	ND	1.00	mg/L							
LCS (B230636-BS1)			Prep	ared & Ana	yzed: 03/20	0/23				
Chloride	25.1	1.00	mg/L	25.0		100	90-110			
LCS Dup (B230636-BSD1)	Prepared & Analyzed: 03/20/23									
Chloride	25.1	1.00	mg/L	25.0		100	90-110	0.0398	20	

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
	*Results reported on as received basis unless designated as dry.
RPD	Relative Percent Difference
LCS	Laboratory Control Sample (Blank Spike)
RL	Report Limit
MDL	Method Detection Limit

Green Analytical Laboratories

Jerry S. all

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever, shall be deemed waived unless made in writing and received within thirty days after completion of the applicable service.

Client: Hilcorp		Asset:	No	orth		ne#			1-605				Kevi		edric	kso
ddress: 382 Road 31	00, Aztec, NM	. 87410			E-M	ail A	ddres	<u>kfre</u>	drick	son	@hil	corp	.com			
CREEK Analytical Laboratories		P	75 Sut Durango, (hone:970- FAX: 970-	247-4220		PO#	. Wo	rk O	rder	11			0Y R		ORD	
	Sample Location: Sample Type:		(1)Bumpe (6)PigLau (12)Separ (16)SWD0 (21)Other (1)Casing, (7)O2Gas	ncher, (7)F atorInlet, (Dutlet, (17)	PigRec 13)Se Trans Trans	eiver, parator ferPun e, (3)C	(8)Pipe Outlet np, (18 oupon	eline, t, (14) 3)Valv n, (4)V	(9)Pit Separ eCan, Vater,	Tank, atorDi (19)V (5)H2	(10)F ump, Vater ⁻ SGas	PostFi (15)S Tank, Tube	lter, (1 WDInle (20)W	1)PreF et ellheac tals	1	
Chlorides o	nly	Area	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y / N	Unpreserved	H2SO4	chlorides	TCLP	BTEX	Full Water API	Corrosivity 9040C (PH)
C Kelly 1E		2	3/17/2023	8AM	JN	20	4	1	n	x		×				
																1 m 1
Relinquished by:	1	Date: 3 - 1	Tir 7- <i>23</i>	me: 91	25	Recei	ved B	y:	N	~	;	Date	1-23	Tim, e	ne: 7:3	SA



SAMPLE CONDITION RECEIPT FORM

mt Name: Hilcorp		Work Order # 230 3 -176
ier: DFed Ex DUPS DUSPS D	Ellent D Kangaroo	
ody Seals on Box/Cooler Present:	No Seals Intac	:⊡Yes □No
mometer Used: #2 Samples on lo	ce, cooling process has begun:	
e of Ice: 🗆 Wet 🗇 Blue 🗹 None Diar Tamp: Observed Temp: <u>23. %</u> •C 🖸	orraction Factor: O *C Final	Date/Initials of person MPN 3/17
mp should be above freezing to 6°C		Labolod by initials: (If different then above)
ain of Custody Present:		
hain of Custody Filled Out;	⊡rves ⊡No ^{2.}	
hain of Custody Relinquished:	⊠Ýes ⊡No ^{3.}	
ampler Name and Signature on COC:	⊠Yes ⊡No ^{4,}	
Samples arrived within hold time:	ZYes DNo 5.	
Short Hold Time Analysis (<72hr);	DYes Drive ^{6.}	
Rush Turn Around Time Requested:	ZYes DNo 7. 3	day push Due 3/2
Sufficient Volume:	,∕⊟Yes ⊡No ^{8.}	
Correct Containers Used:	ZYes DNo 9.	
Containers intact:	ZYes DNo 10.	
Dissolved Testing Needed:	⊡Yes ⊉No ^{11.}	
Field Filtered: Yes No Sample Labels match COC:		
-Includes Date/Time/ID Matrix:	MT SL OT	
Trip Blank Present: Trip Blank Custody Seals Present:	DYes DNo DN/A 13. DYes DNo DN/A	
Client Notification/Resolution:		
Person Contacted:		Date/Time:
Comments/Resolution:		
		Page 1 of 1

Page 6 of 6 2303176 GAL FINAL 03 21 23 1300 03/21/23 13:01:10

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

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

District III

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

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

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	199538
	Action Type:
	[C-141] Release Corrective Action (C-141)
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jharimon	None	3/22/2023

CONDITIONS

Page 29 of 99

Action 199538



APPENDIX B

NMOSE Point of Diversion Summary



New Mexico Office of the State Engineer **Point of Diversion Summary**

8) Number)2145	(quarters	are small 6 Q4	2=NE 3=SW est to largest) Sec Tws 04 30N	Rng	(NAD83 U X 222547	TM in meters) Y 4082522* 🌍	
Driller License: Driller Name:	717 Hood, terry	Driller Co	TELLS					
Drill Start Date:	08/17/1987	Drill Finis	: 08	08/20/1987		Plug Date:		
Log File Date:	PCW Rev	Date:		Sa	Source: Estimated Yield:			
Pump Type:	Pipe Disch	arge S	ize:	Es				
Casing Size:	4.50	Depth We	pth Well:		160 feet		Depth Water:	
Wat	er Bearing Stratific	ations:	Тор	Bottom	Descr	iption		
			130) 160	Sands	tone/Grave	l/Conglomerate	
ζ.	Casing Perfo	rations:	Bottom					
			110) 160				

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

3/27/23 11:15 AM

POINT OF DIVERSION SUMMARY



APPENDIX C

Agency Sampling Notifications

From:	Stuart Hyde
То:	Velez, Nelson, EMNRD; Adeloye, Abiodun A
Cc:	Danny Burns; Devin Hencmann; Mitch Killough
Subject:	L C Kelly 1E (nAPP2308124076) - Drilling and Sampling Notification
Date:	Monday, April 3, 2023 5:15:00 PM
Attachments:	image001.png image002.png image003.png image004.png

All,

On behalf of Hilcorp Energy Company, Ensolum is providing this drilling and sampling notification for work at the L C Kelly 1E (nAPP2308124076) site located at coordinates 36.8460274, -108.1248856 in rural San Juan County. Work is scheduled to begin on Tuesday April 11 at 9 AM. Please reach out with any questions or comments. Thanks.



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





APPENDIX D

Boring Logs

•

						Client Hi	lcorp Energy Co. B	RORING LO	OG NUMBER	
	C	EN	1 5 0	LU	М	Project Na Project Lo	ame: LC Kelly 1E ocation: 36 84615° N, 108 12417° W	BH	01	
8	Drilled By Driller: 5	Envir	-11-23 o-Drill Burns	-cme-	85 HSA	Ground S	urface Elevation: 5,990' Bor sing Elevation: Cas ordinate: Wel rdinate: Sur	rehole Diame sing Diamete ell Materials:	ter: 211 r: 211 ivc sch 40 tion: 44 Gick	
	DEPTH (FEET) SAMPLE ANTERNAL TIME (%) FIDPID READING (PPM) POTENTIO- DOTENTIO- DOTENTIO- READING (PPM)						DISOTORIO DESCRIPTION GEOLOGIC DESCRIPTION			
V1/16°	0	-	75%	>5,000		sw	Brown, med-coarse sou No stain, strong hydrocar odor- SL Moist.	nd		
25/50 3"	6 8 10		75	>5,000		sw- SM	" "SAA. Dry, no s strong odor. W/ some F			
31/50 34	12 14	-	50	2,950			Brown, coarse sand w/ sran No skin, strong odor.	:	TALEN IN THE TALE	
27/50 2"	16 18 20		5 0	2,065		SW- SM	Brown med-coarse sand u No stain, strong-moderate		Net and the	20'-5' screen ,
25/50 4"	22 22 24	-	100	945		SW -SM	Brown, med-coarse sand w No stain, mod. odor. Dry. some compaction.	v/s:1t		22-20 cuttings/sand Hydrated Bentonite 24-22'
29/50 5" S	26 28 30	-	100	253		SWSM	Lt. gray med sand w/si sit. sweet gassy odor.	:14.		
30/50 2"	32 34		100	732		SW -SM	Brown med-course saved u sit to mod. HC odor, deg	graded.		sand 41'-24'
50 5"	36 38 40		25	272		SW -SM	Lt-groy med sand w sit gassy HC odor.	c)silt	1.1.1.1.1.1.1.1.	
32/50 4"	42		75	220		SW -SM	4-gray ned. fn san w/silt. 51t. odor.	1	40-25: screen Packfill to 41'	
35/50 2"	46 48 50		25	43		SW	4. gray. med sand. No stain/odor.		with cuttings	

	Date Sampled Drilled By: J Driller: Ewo Logged By: L HLd 30	in H-1	2-23	LUL	POTENTIO- METRIC SURFACE	Project Na Project Lo Project Ma Ground Su		BH Project No.: 07 Borehole Diam Casing Diamet Well Materials Surface Comp Boring Method	neter: 3" her: 2" her: 2" her: 2VC hetion: Stick up						
	0	A P	REC	FI RE. (F	POT MR SUB	CEO CEO	brown, mod-coarse sand	, some sitt.							
1/2/2 6"	2 + 4 +		100	5.6		SW	No stuin/odor. Dry, unco	nsolidated.		Bentonik 21-0'					
27/50 3"	6 8 10	09.00		100	23.7		SW	Lt. brown coarse sa JBrown med-coarse son Fruce sill. No s/o. Dr	л. 1 [.]		21-0'				
25/50 5'	12 – 14 –			75	17.6		sw	4. brown coarse signal Dry. No 5/0.							
39/50 5"	16 18 20					(04)		100	3,3		SW-SM	Brown coarse send w/ gr and silt. NO 5/0	ravel		
29 <i>/s</i> o 4"	22 <u>-</u> 24 <u>-</u>							0150	0150	100	32.1			gassy udor.	weet
50 6"	26 28 30		100	175			Lt. gray med. sand w/ some comentation. I sh. sweet gassy odor								
50 5"	32	010		<i>4</i> 84			SAA + then Lt. Brown M W/silt, SLt. moist. No st Slight gassy HC odor, swee Refusal @ 33', sand	stone.	11111	83' Refusal					
	38 40 42						Augered down for 5 min no depth progress.	n. W/							
	44 46														
1	48 50														

···· ··· · ··· · ··· ·

						Client Hil	corp Energy Co	BORING	OG NUMBER	
	C	EN	1 5 0	LU	М	Project Na	me. LC Kelly 1E cation: 36 84615° N, 108.12417° W	BH	03	
	Driller: J	ENV:	12-23 EO-DEIL Y BARMS	Ŀ		Ground St		Project No.: 07A1988069 Borehole Diameter: &" Casing Diameter: "" Well Materials: "" Surface Completion: " Boring Method: HSA		
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION	
9/14/25 6"	0 2 4		100	2.9		SW -SM	Lt. Brown med. well scand w/ sitt. Dry, no stain/odor. Loose.	granded		
50 6"	6 8 10	-	100	2.1		sw -SM	SAA. No 5/0.		No Well Set.	
50 5"	10 12 14	- - - ~~~5	75	7.8		SW -SU	Brown medcoarse sa w/siH. Dry. No s/	nd	Borehde	
50 5"	16 18	-	50	3.2		sw -5M	SAA. Dry. No s/c	9.	backf.led w/ clean	
3 9/5 0 8" E	20 22 24	-	75	2.5		5W ~5M	127. Brown med. coar w/silt. No 5/0	se sond	cuitting	
50 4"	26 28	-	25	2.3		sw -sm	54A. NO 5/0			
50 4"	30 32 34 36	1310	25	2,1		Sw -SM	Lt. Brown med Sand semi-cemented. Dry. Very hard drilling, Recfusal (*35)	No 5/0		
	38 40 42 44						-No observed im left hole ope n . well set at this	No		
	46 48 50									

Date Sampled: 4-12 - 23 Ground Surface Elevation: 5,990' Borehole Diameter: g."	
Drilled By: LAVIED-DCILL Top of Casing Elevation: Casing Diameter: 2" Driller: Juan North Coordinate: Well Materials: frc Logged By: Danny BUFAS West Coordinate: Surface Completion: Stick Ap Boring Method: HSA	
DEPTH The fibrid recovery (%) Recovery (%) Recovery (%) Recound recovery (%) Recovery (%) Re	
10/18/30 2 100 1.1 SW H. Brown med sand 4 W/sitt. Dry. No s/0	
50000 50000 50000 1/1/1 9	hydrated Bentonite plug to surface
29/45/50 12 100 2.3 SW SAA. coarse sand w/gravel / / Su	surface
16/25/50-5 18 100 1.6 SW Brown coarse sand, dense. //	
50-5" 22 24 25 4,3 SW Brown coarse sand. Dense. Dry. No 5/0	sand
50.4" 28 25 8.5 SW SL. Marst . NO S/0	2201
50-4" 30 1500 32 1540 25 55.8 SW Brown. med-coarse sand -SM W/silt. Dry. Dense No stain, slight Degraded HC order. 34 1540 25' 5.1 SW Dense Some cementation, -SM Dense some cementation, -SM Dense some cementation,	
	-28' screen
42 44	

	Driller	pled: 4-	N S O 13-23 10-Dr.1		Μ	Project Na Project La Project M Ground S		BH Project No.: 07 Borehole Diam Casing Diamet Well Materials	7A1988069 heter: 8 ¹¹ her: 2" s: pVC letion: 5HCK wg	
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO		BORINGAWELL COMPLETION	rckup
1/3/3	0	-	100	0.1		SW -SM	Brown, med. sand SL moist, No stain/o	w/silt. dor.		
50-5"	6 8 10		50	1,226		SW	Gray torown med-co sound. Tr. silt. Dry. Slight stain todor.	parsc		
50-5"	10 12 14	0930	50	3,823		SW -SM	Gray mod-coarse so W/silt. Moderate st Dry.	nd Riv/odor		
26/50 - 4"	16 18 20	1000	75	4,103		SW -SM	Dark gray and brown i med-course sand. Mod.	nterspeced s10.		
39/50 - 4"	22 24	1020	100	584			Groy fine - med san Mod. S/O. Dry some comentation		Back F.11	
50-4"	26 28 42 fuent 30	1135	25	102			Gray, for-med sand Dense, compacted, some Dry, anod stain, slt. Refused @29'	w/sitt kernent. odor.	20' w/cuttings	29' Refusi
	32 34 36						Set SVE well 20'- 10' screen	10'		
	38 40 42									
	42 44 46									
	48 50									

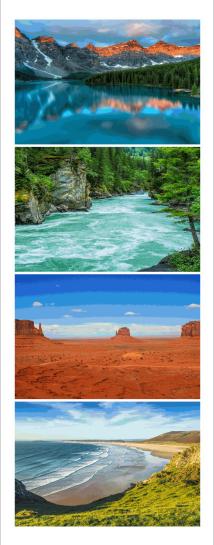
	Date Samp Drilled By Driller: J	oled: 4-1 :Enviro-	3-23 Drill	LU	М	Project Na Project Lo Project Ma Ground Su Top of Cas North Coo		BH Project No.: 07 Borehole Diame Casing Diamet Well Materials	eter: 8" er: 2" :: PVC	
	Logged By		y Burn	15		West Coor	dinate:	Surface Compl Boring Method	letion: Stick # 1: HSA	
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	N	BORINGAWELL	
6/7/13		1230	100	1.324			Brown Med-coarse sand sl. moist. Q5'-L1. gray coarse mod. starv Lodor. Lt. gray. med. sand.	sand u/sit		Bentonite plug 8-0' Sand
36 [50-4" 50-5"	10 12 14	1245	100	2,066		SW	H. gray. med. sand. Tr. sitt. Mod. S/O. H. gray med coars Mod. S/O.	ic sand.	(', - , '	8-22 Screen
50-5" 50-5"	16 18 20	1255	25,	3,214		SW	Brown med-coarse so No stain, mod. odor	and.	THINWRITH	20'-10'
50-5"	22 Retust 24 26	1305	25.	2018		SW	H. Brown med tried-o sound. No stain, mod. Refusal @22	oder.		backfill to 20
	28 30									
	32 34									
	36 38 40									
	42									
	44 46									
	40									
	50									



APPENDIX E

Laboratory Analytical Reports





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name:

LC Kelly #1E

Work Order: E304056

17051-0002 Job Number:

Received: 4/11/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/18/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 4/18/23

Mitch Killough PO Box 61529 Houston, TX 77208

Project Name: LC Kelly #1E Workorder: E304056 Date Received: 4/11/2023 4:53:00PM

Mitch Killough,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/11/2023 4:53:00PM, under the Project Name: LC Kelly #1E.

The analytical test results summarized in this report with the Project Name: LC Kelly #1E apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

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West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

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		Sample Sum	mary		
Hilcorp Energy Co		Project Name:	LC Kelly #1E		Reported:
PO Box 61529		Project Number:	17051-0002		Kiportu.
Houston TX, 77208		Project Manager:	Mitch Killough		04/18/23 11:31
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 @ 5'	E304056-01A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
BH01 @ 10'	E304056-02A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
BH01 @ 15'	E304056-03A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
3H01 @ 20'	E304056-04A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
BH01 @ 25'	E304056-05A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
3H01 @ 30'	E304056-06A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
3H01 @ 35'	E304056-07A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
3H01 @ 40'	E304056-08A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
3H01 @ 45'	E304056-09A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.
BH01 @ 50'	E304056-10A	Soil	04/11/23	04/11/23	Glass Jar, 4 oz.



		imple D				
Hilcorp Energy Co	Project Name:		Kelly #1E			
PO Box 61529	Project Number		51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mite	h Killough			4/18/2023 11:31:44AM
	Ι	BH01 @ 5'				
]	E304056-01				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2315063
Benzene	ND	1.25	50	04/14/23	04/18/23	
Ethylbenzene	9.65	1.25	50	04/14/23	04/18/23	
Toluene	12.8	1.25	50	04/14/23	04/18/23	
p-Xylene	43.9	1.25	50	04/14/23	04/18/23	
p,m-Xylene	151	2.50	50	04/14/23	04/18/23	
Fotal Xylenes	195	1.25	50	04/14/23	04/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/14/23	04/18/23	
Surrogate: 1,2-Dichloroethane-d4	1	96.9 %	70-130	04/14/23	04/18/23	
Surrogate: Toluene-d8		104 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	yst: IY		Batch: 2315063
Gasoline Range Organics (C6-C10)	2130	1000	50	04/14/23	04/18/23	
Surrogate: Bromofluorobenzene		101 %	70-130	04/14/23	04/18/23	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130	04/14/23	04/18/23	
Surrogate: Toluene-d8		104 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	yst: JL		Batch: 2315070
Diesel Range Organics (C10-C28)	2440	25.0	1	04/13/23	04/14/23	
Dil Range Organics (C28-C36)	50.4	50.0	1	04/13/23	04/14/23	
Surrogate: n-Nonane		88.2 %	50-200	04/13/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2315078
Chloride	ND	20.0	1	04/14/23	04/14/23	

Sample Data



Sample Data

	25	ample D	ลเล					
Hilcorp Energy Co	Project Name:		Kelly #1E				D (1)	
PO Box 61529	Project Numbe		51-0002	ι.			Reported: 4/18/2023 11:31:44AM	
Houston TX, 77208	Project Manag	er: Mitt	h Killoug	n		4/18/2023 11:31:44AM		
		BH01 @ 10'						
	-	E304056-02						
		Reporting						
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	g/kg Analyst: IY				Batch: 2315063	
Benzene	ND	0.0500		2	04/14/23	04/18/23		
Ethylbenzene	1.74	0.0500		2	04/14/23	04/18/23		
Toluene	2.81	0.0500		2	04/14/23	04/18/23		
p-Xylene	5.46	0.0500		2	04/14/23	04/18/23		
o,m-Xylene	19.8	0.100		2	04/14/23	04/18/23		
Total Xylenes	25.3	0.0500		2	04/14/23	04/18/23		
Surrogate: Bromofluorobenzene		129 %	70-130		04/14/23	04/18/23		
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		04/14/23	04/18/23		
Surrogate: Toluene-d8		116 %	70-130		04/14/23	04/18/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2315063	
Gasoline Range Organics (C6-C10)	433	40.0		2	04/14/23	04/18/23		
Surrogate: Bromofluorobenzene		129 %	70-130		04/14/23	04/18/23		
Surrogate: 1,2-Dichloroethane-d4		97.8 %	70-130		04/14/23	04/18/23		
Surrogate: Toluene-d8		116 %	70-130		04/14/23	04/18/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2315070	
Diesel Range Organics (C10-C28)	526	25.0		1	04/13/23	04/14/23		
Dil Range Organics (C28-C36)	ND	50.0		1	04/13/23	04/14/23		
Surrogate: n-Nonane		159 %	50-200		04/13/23	04/14/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2315078	
Chloride	ND	20.0		1	04/14/23	04/14/23		



Sample Data

	50	ample D	ala				
Hilcorp Energy Co	Project Name:		Kelly #1E				
PO Box 61529	Project Numbe		51-0002		Reported:		
Houston TX, 77208	Project Manag	er: Mito	h Killoug	h		4/18/2023 11:31:44AM	
	F	BH01 @ 15'					
	-	E304056-03					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	IY		Batch: 2315063
Benzene	ND	0.0250		1	04/14/23	04/14/23	
Ethylbenzene	0.400	0.0250		1	04/14/23	04/14/23	
Toluene	0.737	0.0250		1	04/14/23	04/14/23	
p-Xylene	1.13	0.0250		1	04/14/23	04/14/23	
o,m-Xylene	4.81	0.0500		1	04/14/23	04/14/23	
Total Xylenes	5.94	0.0250		1	04/14/23	04/14/23	
Surrogate: Bromofluorobenzene		109 %	70-130		04/14/23	04/14/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		04/14/23	04/14/23	
Surrogate: Toluene-d8		110 %	70-130		04/14/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	IY		Batch: 2315063
Gasoline Range Organics (C6-C10)	120	20.0		1	04/14/23	04/14/23	
Surrogate: Bromofluorobenzene		109 %	70-130		04/14/23	04/14/23	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	70-130		04/14/23	04/14/23	
Surrogate: Toluene-d8		110 %	70-130		04/14/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	Л		Batch: 2315070
Diesel Range Organics (C10-C28)	94.2	25.0		1	04/13/23	04/14/23	
Dil Range Organics (C28-C36)	ND	50.0		1	04/13/23	04/14/23	
Surrogate: n-Nonane		111 %	50-200		04/13/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	BA		Batch: 2315078
Chloride	ND	20.0		1	04/14/23	04/14/23	



	Sa	imple D	ala				
Hilcorp Energy Co	Project Name:	LC	Kelly #1E				
PO Box 61529	Project Number	r: 1703	51-0002			Reported:	
Houston TX, 77208	Project Manage	er: Mite	h Killoug		4/18/2023 11:31:44AM		
	В	H01 @ 20'					
	I	E304056-04					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: IY		Batch: 2315063
Benzene	ND	0.0250		1	04/14/23	04/14/23	
Ethylbenzene	1.15	0.0250		1	04/14/23	04/14/23	
Toluene	2.01	0.0250		1	04/14/23	04/14/23	
o-Xylene	2.68	0.0250		1	04/14/23	04/14/23	
p,m-Xylene	11.2	0.0500		1	04/14/23	04/14/23	
Total Xylenes	13.9	0.0250		1	04/14/23	04/14/23	
Surrogate: Bromofluorobenzene		130 %	70-130		04/14/23	04/14/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		04/14/23	04/14/23	
Surrogate: Toluene-d8		118 %	70-130		04/14/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: IY		Batch: 2315063
Gasoline Range Organics (C6-C10)	260	20.0		1	04/14/23	04/14/23	
Surrogate: Bromofluorobenzene		130 %	70-130		04/14/23	04/14/23	
Surrogate: 1,2-Dichloroethane-d4		100 %	70-130		04/14/23	04/14/23	
Surrogate: Toluene-d8		118 %	70-130		04/14/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: JL		Batch: 2315070
Diesel Range Organics (C10-C28)	29.6	25.0		1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/13/23	04/15/23	
Surrogate: n-Nonane		102 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2315078
Chloride	ND	20.0		1	04/14/23	04/14/23	



Sample Data

	56	ampie D	ala				
Hilcorp Energy Co	Project Name:	LC	Kelly #1E				
PO Box 61529	Project Numbe	er: 170	51-0002				Reported:
Houston TX, 77208	Project Manag	er: Mite	h Killoug		4/18/2023 11:31:44AM		
	F	BH01 @ 25'					
		E304056-05					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: IY		Batch: 2315063
Benzene	ND	0.0250		1	04/14/23	04/14/23	
Ethylbenzene	0.0480	0.0250		1	04/14/23	04/14/23	
Toluene	0.129	0.0250		1	04/14/23	04/14/23	
o-Xylene	0.136	0.0250		1	04/14/23	04/14/23	
p,m-Xylene	0.506	0.0500		1	04/14/23	04/14/23	
Total Xylenes	0.642	0.0250		1	04/14/23	04/14/23	
Surrogate: Bromofluorobenzene		97.6 %	70-130		04/14/23	04/14/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		04/14/23	04/14/23	
Surrogate: Toluene-d8		102 %	70-130		04/14/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: IY		Batch: 2315063
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/14/23	04/14/23	
Surrogate: Bromofluorobenzene		97.6 %	70-130		04/14/23	04/14/23	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		04/14/23	04/14/23	
Surrogate: Toluene-d8		102 %	70-130		04/14/23	04/14/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2315070
Diesel Range Organics (C10-C28)	ND	25.0		1	04/13/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/13/23	04/15/23	
Surrogate: n-Nonane		101 %	50-200		04/13/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: BA		Batch: 2315078
Chloride	ND	20.0		1	04/14/23	04/14/23	



Sample Data

	50	ample D	ala					
Hilcorp Energy Co	Project Name:	LC]	Kelly #1E					
PO Box 61529	Project Numbe	er: 1703	51-0002			Reported:		
Houston TX, 77208	Project Manag	er: Mito	Mitch Killough				4/18/2023 11:31:44AM	
	E	BH01 @ 30'						
		E304056-06						
		Reporting						
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes	
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: SL		Batch: 2315059	
Benzene	ND	0.0250		1	04/12/23	04/12/23		
Ethylbenzene	ND	0.0250		1	04/12/23	04/12/23		
Toluene	ND	0.0250		1	04/12/23	04/12/23		
p-Xylene	ND	0.0250		1	04/12/23	04/12/23		
p,m-Xylene	ND	0.0500		1	04/12/23	04/12/23		
Total Xylenes	ND	0.0250		1	04/12/23	04/12/23		
Surrogate: Bromofluorobenzene		97.8 %	70-130		04/12/23	04/12/23		
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/12/23	04/12/23		
Surrogate: Toluene-d8		101 %	70-130		04/12/23	04/12/23		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: SL		Batch: 2315059	
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/12/23	04/12/23		
Surrogate: Bromofluorobenzene		97.8 %	70-130		04/12/23	04/12/23		
Surrogate: 1,2-Dichloroethane-d4		102 %	70-130		04/12/23	04/12/23		
Surrogate: Toluene-d8		101 %	70-130		04/12/23	04/12/23		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	JL		Batch: 2315061	
Diesel Range Organics (C10-C28)	ND	25.0		1	04/12/23	04/12/23		
Oil Range Organics (C28-C36)	ND	50.0		1	04/12/23	04/12/23		
Surrogate: n-Nonane		93.4 %	50-200		04/12/23	04/12/23		
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2315057	
Chloride	ND	20.0		1	04/12/23	04/12/23		



Sample Data

	Ja	mple D	uu				
Hilcorp Energy Co	Project Name:	LC	Kelly #1E				
PO Box 61529	Project Number	Project Number: 17051-0002				Reported:	
Houston TX, 77208	Project Manage	r: Mite	h Killoug	h			4/18/2023 11:31:44AM
	В	H01 @ 35'					
	ŀ	2304056-07					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: SL		Batch: 2315059
Benzene	ND	0.0250		1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250		1	04/12/23	04/12/23	
Toluene	0.0270	0.0250		1	04/12/23	04/12/23	
p-Xylene	0.0505	0.0250		1	04/12/23	04/12/23	
o,m-Xylene	0.207	0.0500		1	04/12/23	04/12/23	
Fotal Xylenes	0.258	0.0250		1	04/12/23	04/12/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/12/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/12/23	04/12/23	
Surrogate: Toluene-d8		107 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: SL		Batch: 2315059
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/12/23	04/12/23	
Surrogate: Bromofluorobenzene		100 %	70-130		04/12/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4		101 %	70-130		04/12/23	04/12/23	
urrogate: Toluene-d8		107 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: JL		Batch: 2315061
Diesel Range Organics (C10-C28)	ND	25.0		1	04/12/23	04/12/23	
Dil Range Organics (C28-C36)	ND	50.0		1	04/12/23	04/12/23	
Surrogate: n-Nonane		101 %	50-200		04/12/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	RAS		Batch: 2315057
Chloride	ND	20.0		1	04/12/23	04/12/23	



Sample Data

	50	ample D	ala				
Hilcorp Energy Co	Project Name:	LC	Kelly #1E				
PO Box 61529	Project Numbe	ect Number: 17051-0002					Reported:
Houston TX, 77208	Project Manag	er: Mito	h Killoug	h			4/18/2023 11:31:44AM
	E	BH01 @ 40'					
	-	E304056-08					
		Reporting					
Analyte	Result	Limit	Di	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: SL		Batch: 2315059
Benzene	ND	0.0250		1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250		1	04/12/23	04/12/23	
Toluene	ND	0.0250		1	04/12/23	04/12/23	
p-Xylene	ND	0.0250		1	04/12/23	04/12/23	
o,m-Xylene	ND	0.0500		1	04/12/23	04/12/23	
Fotal Xylenes	ND	0.0250		1	04/12/23	04/12/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130		04/12/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		04/12/23	04/12/23	
Surrogate: Toluene-d8		103 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: SL		Batch: 2315059
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/12/23	04/12/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130		04/12/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4		99.8 %	70-130		04/12/23	04/12/23	
urrogate: Toluene-d8		103 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	JL		Batch: 2315061
Diesel Range Organics (C10-C28)	ND	25.0		1	04/12/23	04/12/23	
Dil Range Organics (C28-C36)	ND	50.0		1	04/12/23	04/12/23	
Surrogate: n-Nonane		98.9 %	50-200		04/12/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	RAS		Batch: 2315057
Chloride	ND	20.0		1	04/12/23	04/12/23	



Sample Data

	58	ample D	ลเล				
Hilcorp Energy Co PO Box 61529	Project Name: Project Numbe		Kelly #1E 51-0002				Reported:
Houston TX, 77208	Project Manag		h Killougl	4/18/2023 11:31:44AM			
	I	BH01 @ 45'					
		E304056-09					
		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: SL		Batch: 2315059
Benzene	ND	0.0250		1	04/12/23	04/12/23	
Ethylbenzene	ND	0.0250		1	04/12/23	04/12/23	
Toluene	ND	0.0250		1	04/12/23	04/12/23	
p-Xylene	ND	0.0250		1	04/12/23	04/12/23	
o,m-Xylene	ND	0.0500		1	04/12/23	04/12/23	
Total Xylenes	ND	0.0250		1	04/12/23	04/12/23	
Surrogate: Bromofluorobenzene		102 %	70-130		04/12/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		04/12/23	04/12/23	
Surrogate: Toluene-d8		103 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: SL			Batch: 2315059
Gasoline Range Organics (C6-C10)	ND	20.0		1	04/12/23	04/12/23	
Surrogate: Bromofluorobenzene		102 %	70-130		04/12/23	04/12/23	
Surrogate: 1,2-Dichloroethane-d4		97.4 %	70-130		04/12/23	04/12/23	
Surrogate: Toluene-d8		103 %	70-130		04/12/23	04/12/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: JL		Batch: 2315061
Diesel Range Organics (C10-C28)	ND	25.0		1	04/12/23	04/12/23	
Oil Range Organics (C28-C36)	ND	50.0		1	04/12/23	04/12/23	
Surrogate: n-Nonane		102 %	50-200		04/12/23	04/12/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: RAS		Batch: 2315057
Chloride	ND	20.0		1	04/12/23	04/12/23	



QC Summary Data

		QU SI		iry Data					
Hilcorp Energy Co		Project Name:		C Kelly #1E					Reported:
PO Box 61529		Project Number: 17051-0002							
Houston TX, 77208		Project Manager:	М	itch Killough				4/	18/2023 11:31:44AN
		Volatile Organic	Compo	unds by EP	A 82601	B			Analyst: SL
Analyte		Reporting	Spike	Source		Rec	DDD	RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	N T
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315059-BLK1)							Prepared: 04	4/12/23 Ana	lyzed: 04/12/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			
LCS (2315059-BS1)							Prepared: 04	4/12/23 Ana	lyzed: 04/13/23
Benzene	2.49	0.0250	2.50		99.4	70-130			
Ethylbenzene	2.38	0.0250	2.50		95.3	70-130			
Toluene	2.43	0.0250	2.50		97.3	70-130			
o-Xylene	2.46	0.0250	2.50		98.4	70-130			
p,m-Xylene	4.85	0.0500	5.00		96.9	70-130			
Total Xylenes	7.31	0.0250	7.50		97.4	70-130			
Surrogate: Bromofluorobenzene	0.488		0.500		97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.505		0.500		101	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike (2315059-MS1)				Source: E	2304052-	05	Prepared: 04/12/23 Analyzed: 04/1		
Benzene	2.58	0.0250	2.50	ND	103	48-131			
Ethylbenzene	2.48	0.0250	2.50	ND	99.2	45-135			
Toluene	2.55	0.0250	2.50	ND	102	48-130			
o-Xylene	2.38	0.0250	2.50	ND	95.4	43-135			
p,m-Xylene	4.69	0.0500	5.00	ND	93.8	43-135			
Total Xylenes	7.07	0.0250	7.50	ND	94.3	43-135			
Surrogate: Bromofluorobenzene	0.476		0.500		95.2	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.486		0.500		97.1	70-130			
Surrogate: Toluene-d8	0.524		0.500		105	70-130			
Matrix Spike Dup (2315059-MSD1)				Source: E	2304052-	05	Prepared: 04	4/12/23 Ana	lyzed: 04/12/23
Benzene	2.58	0.0250	2.50	ND	103	48-131	0.0388	23	-
Ethylbenzene	2.49	0.0250	2.50	ND	99.6	45-135	0.382	27	
Toluene	2.57	0.0250	2.50	ND	103	48-130	0.644	24	
o-Xylene	2.50	0.0250	2.50	ND	99.9	43-135	4.63	27	
p,m-Xylene	4.93	0.0500	5.00	ND	98.6	43-135	4.99	27	
Total Xylenes	7.43	0.0250	7.50	ND	99.0	43-135	4.87	27	
Surrogate: Bromofluorobenzene	0.484	0.0200	0.500		96.7	70-130			
			0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.518								
Surrogate: Toluene-d8	0.522		0.500		104	70-130			



QC Summary Data

		X U U U		iry Data					
Hilcorp Energy Co		Project Name:		C Kelly #1E					Reported:
PO Box 61529		Project Number: 17051-0002							
Houston TX, 77208		Project Manager:	М	itch Killough				4/1	18/2023 11:31:44AN
		Volatile Organic	Compo	unds by EPA	A 82601	В			Analyst: SL
Analyte		Reporting	Spike	Source		Rec	DDD	RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315063-BLK1)							Prepared: 04	4/13/23 Ana	lyzed: 04/13/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2315063-BS1)							Prepared: 04	4/13/23 Ana	lyzed: 04/13/23
Benzene	2.37	0.0250	2.50		94.8	70-130			
Ethylbenzene	2.32	0.0250	2.50		93.0	70-130			
Toluene	2.31	0.0250	2.50		92.3	70-130			
o-Xylene	2.41	0.0250	2.50		96.6	70-130			
p,m-Xylene	4.77	0.0500	5.00		95.3	70-130			
Total Xylenes	7.18	0.0250	7.50		95.8	70-130			
Surrogate: Bromofluorobenzene	0.493		0.500		98.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.6	70-130			
Surrogate: Toluene-d8	0.498		0.500		99.5	70-130			
Matrix Spike (2315063-MS1)				Source: H	304065-	04	Prepared: 04	lyzed: 04/13/23	
Benzene	2.44	0.0250	2.50	ND	97.7	48-131	1		,
Ethylbenzene	2.38	0.0250	2.50	ND	95.1	45-135			
Toluene	2.30	0.0250	2.50	ND	95.9	48-130			
o-Xylene	2.48	0.0250	2.50	ND	99.3	43-135			
p,m-Xylene	4.89	0.0230	5.00	ND	99.3 97.8	43-135			
Total Xylenes	7.37	0.0250	7.50	ND	98.3	43-135			
Surrogate: Bromofluorobenzene	0.491	0.0250	0.500		98.1	70-130			
Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.492 0.504		0.500 0.500		98.3 101	70-130 70-130			
-	0.304		0.200				D 1.0	4/12/22	1 1 0 4 /1 2 /2 2
Matrix Spike Dup (2315063-MSD1) Benzene	2.44	0.0250	2.50	Source: F	97.6	48-131	0.164	4/13/23 Ana	lyzed: 04/13/23
Ethylbenzene	2.42	0.0250	2.50	ND	96.8	45-135	1.73	27	
Toluene	2.42	0.0250	2.50	ND	97.2	48-130	1.31	24	
	2.43	0.0250	2.50	ND	100	43-135	0.762	24	
o-Xylene	4.92	0.0250	5.00	ND	98.5	43-135	0.762	27	
p,m-Xylene Total Xylenes	4.92 7.43	0.0500	5.00 7.50	ND	98.5 99.0	43-135	0.662	27	
		0.0250	0.500		99.3	70-130	0.070		
Surrogate: Bromofluorobenzene	0.497								
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			



QC Summary Data

		QU DI		ary Data					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1	C Kelly #1E 7051-0002 Iitch Killough					Reported: 4/18/2023 11:31:44AM
	No	onhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315059-BLK1)							Prepared: 0	4/12/23 <i>A</i>	Analyzed: 04/12/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.492		0.500		98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		96.0	70-130			
Surrogate: Toluene-d8	0.519		0.500		104	70-130			
LCS (2315059-BS2)							Prepared: 0	4/12/23 A	Analyzed: 04/12/23
Gasoline Range Organics (C6-C10)	47.1	20.0	50.0		94.3	70-130			
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.498		0.500		99.5	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
Matrix Spike (2315059-MS2)				Source: I	E 304052 -(05	Prepared: 0	4/12/23 A	Analyzed: 04/12/23
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130			
Surrogate: Bromofluorobenzene	0.494		0.500		98.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.491		0.500		98.2	70-130			
Surrogate: Toluene-d8	0.523		0.500		105	70-130			
Matrix Spike Dup (2315059-MSD2)				Source: I	2304052-0	05	Prepared: 0	4/12/23 A	Analyzed: 04/12/23
Gasoline Range Organics (C6-C10)	47.2	20.0	50.0	ND	94.4	70-130	5.90	20	
Surrogate: Bromofluorobenzene	0.482		0.500		96.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.509		0.500		102	70-130			
Surrogate: Toluene-d8	0.511		0.500		102	70-130			

QC Summary Data

		QC SI	u 1111116	ary Data					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1′	C Kelly #1E 7051-0002 litch Killough					Reported: 4/18/2023 11:31:44AM
	No	onhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315063-BLK1)							Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.483		0.500		96.6	70-130			
Surrogate: Toluene-d8	0.507		0.500		101	70-130			
LCS (2315063-BS2)							Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	47.6	20.0	50.0		95.2	70-130			
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
Matrix Spike (2315063-MS2)				Source: I	E304065-0)4	Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	49.2	20.0	50.0	ND	98.3	70-130			
Surrogate: Bromofluorobenzene	0.510		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99 .7	70-130			
Surrogate: Toluene-d8	0.503		0.500		101	70-130			
Matrix Spike Dup (2315063-MSD2)				Source: I	2304065-0)4	Prepared: 0	4/13/23	Analyzed: 04/13/23
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130	3.85	20	
Surrogate: Bromofluorobenzene	0.505		0.500		101	70-130			
	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		97.1	70-150			



QC Summary Data

		QC BI	u1111116	ary Data					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1′	C Kelly #1E 7051-0002 Iitch Killough					Reported: 4/18/2023 11:31:44AM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2315061-BLK1)							Prepared: 0	4/12/23 <i>A</i>	Analyzed: 04/12/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	52.8		50.0		106	50-200			
LCS (2315061-BS1)							Prepared: 0	4/12/23 <i>A</i>	Analyzed: 04/12/23
Diesel Range Organics (C10-C28)	254	25.0	250		102	38-132			
Surrogate: n-Nonane	50.9		50.0		102	50-200			
Matrix Spike (2315061-MS1)				Source: H	2304053-	01	Prepared: 0	4/12/23 A	Analyzed: 04/12/23
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	38-132			
Surrogate: n-Nonane	52.1		50.0		104	50-200			
Matrix Spike Dup (2315061-MSD1)				Source: I	2304053-	01	Prepared: 0	4/12/23 A	Analyzed: 04/12/23
Diesel Range Organics (C10-C28)	262	25.0	250	ND	105	38-132	1.73	20	
Surrogate: n-Nonane	51.2		50.0		102	50-200			



QC Summary Data

		QC SI	umma	iry Data					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	17	C Kelly #1E 7051-0002 litch Killough					Reported: 4/18/2023 11:31:44AM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2315070-BLK1)							Prepared: 04	4/13/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28) Oil Range Organics (C28-C36)	ND ND	25.0 50.0							
Surrogate: n-Nonane	49.7		50.0		99.4	50-200			
LCS (2315070-BS1)							Prepared: 04	4/13/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28)	256	25.0	250		103	38-132			
Surrogate: n-Nonane	47.6		50.0		95.1	50-200			
Matrix Spike (2315070-MS1)				Source: F	304071-	01	Prepared: 04	4/13/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28)	261	25.0	250	ND	105	38-132			
Surrogate: n-Nonane	49.1		50.0		98.1	50-200			
Matrix Spike Dup (2315070-MSD1)				Source: F	304071-	01	Prepared: 0	4/13/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28)	273	25.0	250	ND	109	38-132	4.46	20	
Surrogate: n-Nonane	49.4		50.0		98.8	50-200			



QC Summary Data

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Hilcorp Energy Co PO Box 61529		Project Name: Project Number:	1′	C Kelly #1E 7051-0002					Reported:
Houston TX, 77208		Project Manager:	M	litch Killough					4/18/2023 11:31:44AN
		Anions	by EPA 3	300.0/9056A	۱.				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315057-BLK1)							Prepared: 0	4/12/23	Analyzed: 04/12/23
Chloride	ND	20.0							
LCS (2315057-BS1)							Prepared: 0	4/12/23	Analyzed: 04/12/23
Chloride	266	20.0	250		107	90-110			
Matrix Spike (2315057-MS1)				Source:	E304051-(02	Prepared: 0	4/12/23	Analyzed: 04/12/23
Chloride	2770	40.0	250	2750	9.00	80-120			M4
Matrix Spike Dup (2315057-MSD1)				Source:	E304051-(02	Prepared: 0	4/12/23	Analyzed: 04/12/23
Chloride	2780	40.0	250	2750	13.3	80-120	0.386	20	M4



QC Summary Data

		QU N		ary Date	•				
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		C Kelly #1E 7051-0002					Reported:
Houston TX, 77208		Project Manager:		/itch Killough					4/18/2023 11:31:44AN
		Anions	by EPA	300.0/9056A	L				Analyst: BA
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315078-BLK1)							Prepared: 0	4/14/23	Analyzed: 04/14/23
Chloride	ND	20.0							
LCS (2315078-BS1)							Prepared: 0	4/14/23	Analyzed: 04/14/23
Chloride	240	20.0	250		96.0	90-110			
Matrix Spike (2315078-MS1)				Source:	E304071-(01	Prepared: 0	4/14/23	Analyzed: 04/14/23
Chloride	240	20.0	250	ND	96.1	80-120			
Matrix Spike Dup (2315078-MSD1)				Source:	E304071-(01	Prepared: 0	4/14/23	Analyzed: 04/14/23
Chloride	239	20.0	250	ND	95.5	80-120	0.625	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



	- ••-•		
Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Mitch Killough	04/18/23 11:31

M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



roject Information		Custody									Pa	age	_ of
lient: Hilderp roject: LC Kelly HIE roject Manager: Mitch Killo ddress: ity, State, Zip	City, State, Zip	1	Lab V E 3	wo#	1.00010	0	Job N 171	y Jumber J <u>51-000</u> is and Meth	2	TAT 3D Sta	indard	EPA Pr CWA	ogram SDWA RCRA
hone: mail: MKillowyh@hilcorp eport due by:	<u>Email: mKillough Chilco</u>	3	0RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	6010	Chloride 300.0				State UT AZ	ТХ
Time Date Sampled Matrix Contain		Lab Number	DRO/ORO	GRO/D	BTEX b	VOC by	Metals 6010	Chloric			1	Remarks	1.1
1105 4-11-23 soil 1	BHOI @ 5'	1	X	X	\times			X			Hold	X	
110 1 1	BH01 @ 10'	2	1	1	1			1			Hold		
120	Bitol @15'	3									Hold	0	-
130	BH01@20'	4									Hold		
145	BH01@25'	5									Flold		
200	B1101@30'	10					+				Same	day	
230	BH01@35'	17									same	day	
300	BH01 @ 40'	8			1	+					same	day	
330	BITOI @45'	9									Same		
420 0 0	BHO1@ 501	10	V	V	V						Hold	1	
dditional Instructions:	results to shyde Gensa	nul	. C	or	N	A	- 0	abur	ns @e	ensol	lum. (COM	
field sampler), attest to the validity and authenti te or time of collection is considered fraud and n	city of this sample. I am aware that tampering with or intentionally mislabelling		cation,			Sa	amples	requiring therma	l preservation must b np above 0 but less th	e received on	n ice the day they		or received
inquished by Signature)	are egredines for legar action. Samples by Science by S			lime	5			ved on ice:	and the second second second second second				
	tte Time Received by: (Signature).	Date		lime			lecei	ved on ice:	(Y)/ N	5	19	9	AR A
linquished by: (Signature)	te Time Received by: (Signature)	Date	T	lime			1-	1.0	12 000	1	<u>r</u> 3 × ·		4/14
	ults are reported unless other arrangements are made. Hazardous sam	ples will be	returne	ed to	client o	- poly or disp	/plas	of at the clier	ber glass, v - VC)A report for	r the analysis	of the ab	ove
npies is applicable only to those samples re	ceived by the laboratory with this COC. The liability of the laboratory is	limited to th	e amoi	unt pa					nvi				

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Hilcorp Energy Co D	ate Received:	04/11/23 16:	53	Work Order ID: E304056
Phone:	- D	ate Logged In:	04/11/23 17:	06	Logged In By: Alexa Michaels
Email:		ue Date:	04/12/23 17:	00 (1 day TAT)	
Chain o	f Custody (COC)				
1. Does 1	the sample ID match the COC?		Yes		
	the number of samples per sampling site location match	the COC	Yes		
3. Were	samples dropped off by client or carrier?		Yes	Carrier:	Danny Burns
4. Was th	ne COC complete, i.e., signatures, dates/times, requested	l analyses?	Yes		
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in th i.e, 15 minute hold time, are not included in this disucssion.	e field,	Yes		<u>Comments/Resolution</u>
Sample '	<u>Turn Around Time (TAT)</u>				
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes		COC remarks: Samples 1-5 and sample 10
Sample	<u>Cooler</u>				are on hold until further client instruction.
7. Was a	sample cooler received?		Yes		
8. If yes,	was cooler received in good condition?		Yes		
9. Was tl	ne sample(s) received intact, i.e., not broken?		Yes		
10. Were	e custody/security seals present?		No		
11. If yes	s, were custody/security seals intact?		NA		
12. Was t	he sample received on ice? If yes, the recorded temp is 4°C, i.e. Note: Thermal preservation is not required, if samples are re minutes of sampling		Yes		
13. If no	visible ice, record the temperature. Actual sample ter	nperature: <u>4°</u>	<u>'C</u>		
Sample	<u>Container</u>				
14. Are a	aqueous VOC samples present?		No		
15. Are '	VOC samples collected in VOA Vials?		NA		
16. Is the	e head space less than 6-8 mm (pea sized or less)?		NA		
17. Was	a trip blank (TB) included for VOC analyses?		NA		
18. Are 1	non-VOC samples collected in the correct containers?		Yes		
19. Is the	appropriate volume/weight or number of sample containers	s collected?	Yes		
Field La					
	: field sample labels filled out with the minimum inform	ation:	V.		
	Sample ID? Date/Time Collected?		Yes		
	Collectors name?		Yes Yes		
	Preservation		1.00		
_	the COC or field labels indicate the samples were prese	erved?	No		
22. Are s	sample(s) correctly preserved?		NA		
24. Is lał	o filteration required and/or requested for dissolved meta	als?	No		
Multiph	ase Sample Matrix				
26. Does	the sample have more than one phase, i.e., multiphase?		No		
27. If ye	s, does the COC specify which phase(s) is to be analyze	d?	NA		
Subcont	ract Laboratory				
	samples required to get sent to a subcontract laboratory?		No		
	a subcontract laboratory specified by the client and if so			ubcontract La	ıb: NA
	instruction		5		

Signature of client authorizing changes to the COC or sample disposition.



envirotech Inc.





5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: LC Kelly #1E

Work Order: E304073

Job Number: 17051-0002

Received: 4/13/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 4/20/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise. Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc. Envirotech Inc, holds the Utah TNI certification NM00979 for data reported. Envirotech Inc, holds the Texas TNI certification T104704557 for data reported. Date Reported: 4/20/23

Mitch Killough PO Box 61529 Houston, TX 77208

Project Name: LC Kelly #1E Workorder: E304073 Date Received: 4/13/2023 2:57:00PM

Mitch Killough,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/13/2023 2:57:00PM, under the Project Name: LC Kelly #1E.

The analytical test results summarized in this report with the Project Name: LC Kelly #1E apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman Laboratory Director Office: 505-632-1881 Cell: 775-287-1762 whinchman@envirotech-inc.com

Field Offices:

Southern New Mexico Area Lynn Jarboe

Technical Representative/Client Services Office: 505-421-LABS(5227) Cell: 505-320-4759 ljarboe@envirotech-inc.com

Raina Schwanz Laboratory Administrator Office: 505-632-1881 rainaschwanz@envirotech-inc.com Alexa Michaels Sample Custody Officer Office: 505-632-1881 labadmin@envirotech-inc.com

West Texas Midland/Odessa Area Rayny Hagan Technical Representative Office: 505-421-LABS(5227)

Envirotech Web Address: www.envirotech-inc.com



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Sample Summary

		Sample Sum	mary		
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	LC Kelly #1E 17051-0002 Mitch Killough		Reported: 04/20/23 15:16
Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
3H02 @ 10'	E304073-01A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
BH02 @ 25'	E304073-02A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
H02 @ 30'	E304073-03A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
3H02 @ 33'	E304073-04A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
BH03 @ 15'	E304073-05A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
3H03 @ 35'	E304073-06A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
3H04 @ 30'	E304073-07A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
3H04 @ 35'	E304073-08A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
3H04 @ 38'	E304073-09A	Soil	04/12/23	04/13/23	Glass Jar, 4 oz.
3H05 @ 10'	E304073-10A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
BH05 @ 15'	E304073-11A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
3H05 @ 20'	E304073-12A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
3H05 @ 25'	E304073-13A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
3H05 @ 29'	E304073-14A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
3H06 @ 5'	E304073-15A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
BH06 @ 10'	E304073-16A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
BH06 @ 15'	E304073-17A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
H06 @ 20'	E304073-18A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.
SH06 @ 22'	E304073-19A	Soil	04/13/23	04/13/23	Glass Jar, 4 oz.



		ampic D					
Hilcorp Energy Co	Project Name:		Kelly #1E				
PO Box 61529	Project Number	er: 170	51-0002				Reported:
Houston TX, 77208	Project Manag	ger: Mite	ch Killough				4/20/2023 3:16:48PM
	I	BH02 @ 10'					
		E304073-01					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	I	Analyst: S	L		Batch: 2315071
Benzene	ND	0.0250	1		04/14/23	04/15/23	
Ithylbenzene	ND	0.0250	1		04/14/23	04/15/23	
oluene	ND	0.0250	1		04/14/23	04/15/23	
-Xylene	ND	0.0250	1		04/14/23	04/15/23	
,m-Xylene	ND	0.0500	1		04/14/23	04/15/23	
Total Xylenes	ND	0.0250	1		04/14/23	04/15/23	
urrogate: 4-Bromochlorobenzene-PID		91.6 %	70-130		04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: S	L		Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1		04/14/23	04/15/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		92.5 %	70-130		04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: Л	L		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1		04/14/23	04/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1		04/14/23	04/19/23	
urrogate: n-Nonane		109 %	50-200		04/14/23	04/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	A		Batch: 2315079
Chloride	ND	20.0	1		04/14/23	04/14/23	





Sample Data

	52	ample D	ata			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	er: 1703	51-0002			Reported:
Houston TX, 77208	Project Manag	er: Mite	ch Killough			4/20/2023 3:16:48PM
	F	BH02 @ 25'				
	-	E304073-02				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2315071
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	ND	0.0250	1	04/14/23	04/15/23	
Toluene	ND	0.0250	1	04/14/23	04/15/23	
p-Xylene	ND	0.0250	1	04/14/23	04/15/23	
o,m-Xylene	ND	0.0500	1	04/14/23	04/15/23	
Total Xylenes	ND	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		91.8 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.9 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/14/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/14/23	
Surrogate: n-Nonane		109 %	50-200	04/14/23	04/14/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	25	imple D	ลเล			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	er: 1703	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mite	h Killough			4/20/2023 3:16:48PM
	E	BH02 @ 30'				
]	E304073-03				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys		Batch: 2315071	
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	ND	0.0250	1	04/14/23	04/15/23	
Toluene	ND	0.0250	1	04/14/23	04/15/23	
o-Xylene	ND	0.0250	1	04/14/23	04/15/23	
o,m-Xylene	ND	0.0500	1	04/14/23	04/15/23	
Total Xylenes	ND	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.7 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		109 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	Sa	imple D	ata			
Hilcorp Energy Co	Project Name:	LC I	Kelly #1E			
PO Box 61529	Project Number	r: 1705	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mito	h Killough			4/20/2023 3:16:48PM
	В	H02 @ 33'				
	1	E304073-04				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	st: SL		Batch: 2315071
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	0.143	0.0250	1	04/14/23	04/15/23	
Toluene	0.105	0.0250	1	04/14/23	04/15/23	
o-Xylene	0.320	0.0250	1	04/14/23	04/15/23	
o,m-Xylene	1.37	0.0500	1	04/14/23	04/15/23	
Fotal Xylenes	1.69	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		90.7 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g/kg Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	56.4	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	105	25.0	1	04/14/23	04/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/19/23	
Surrogate: n-Nonane		134 %	50-200	04/14/23	04/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	st: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	

	56	ample D	ala			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	er: 170	Reported:			
Houston TX, 77208	Project Manag	er: Mite	h Killough			4/20/2023 3:16:48PM
	E	BH03 @ 15'				
	-	E304073-05				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	Batch: 2315071		
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	ND	0.0250	1	04/14/23	04/15/23	
Toluene	ND	0.0250	1	04/14/23	04/15/23	
p-Xylene	ND	0.0250	1	04/14/23	04/15/23	
o,m-Xylene	ND	0.0500	1	04/14/23	04/15/23	
Fotal Xylenes	ND	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		91.5 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		99.3 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/19/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/19/23	
Surrogate: n-Nonane		104 %	50-200	04/14/23	04/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: BA		Batch: 2315079
Chloride	31.7	20.0	1	04/14/23	04/14/23	



	52	ample D	ata			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	er: 170:	51-0002			Reported:
Houston TX, 77208	Project Manag	er: Mite	ch Killough			4/20/2023 3:16:48PM
	F	BH03 @ 35'				
		E304073-06				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2315071		
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	ND	0.0250	1	04/14/23	04/15/23	
Toluene	ND	0.0250	1	04/14/23	04/15/23	
p-Xylene	ND	0.0250	1	04/14/23	04/15/23	
p,m-Xylene	ND	0.0500	1	04/14/23	04/15/23	
Fotal Xylenes	ND	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		91.7 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	cg Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		98.4 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		107 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	:: BA		Batch: 2315079
Chloride	ND	40.0	2	04/14/23	04/14/23	



Sample Data

	25	imple D	ลเล			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	er: 170:	51-0002	Reported:		
Houston TX, 77208	Project Manage	er: Mite	ch Killough			4/20/2023 3:16:48PM
	В	BH04 @ 30'				
]	E304073-07				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	st: SL		Batch: 2315071
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	0.0329	0.0250	1	04/14/23	04/15/23	
Toluene	ND	0.0250	1	04/14/23	04/15/23	
p-Xylene	ND	0.0250	1	04/14/23	04/15/23	
o,m-Xylene	ND	0.0500	1	04/14/23	04/15/23	
Total Xylenes	ND	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		92.2 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g/kg Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		97.8 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		107 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	29	imple D	ลเล			
Hilcorp Energy Co	Project Name:	LC I	Kelly #1E			
PO Box 61529	Project Numbe	er: 1705	Reported:			
Houston TX, 77208	Project Manage	er: Mito	h Killough			4/20/2023 3:16:48PM
	В	BH04 @ 35'				
]	E304073-08				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	cg Analyst: SL			Batch: 2315071
Benzene	0.0455	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	0.0414	0.0250	1	04/14/23	04/15/23	
Toluene	0.171	0.0250	1	04/14/23	04/15/23	
p-Xylene	0.0423	0.0250	1	04/14/23	04/15/23	
o,m-Xylene	0.473	0.0500	1	04/14/23	04/15/23	
Total Xylenes	0.515	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		91.4 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g/kg Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		96.2 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	st: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		107 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



	Da	imple D	ala			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	r: 170:	51-0002	Reported:		
Houston TX, 77208	Project Manage	er: Mite	h Killough			4/20/2023 3:16:48PM
	В	3H04 @ 38'				
]	E304073-09				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2315071		
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	ND	0.0250	1	04/14/23	04/15/23	
Toluene	ND	0.0250	1	04/14/23	04/15/23	
p-Xylene	ND	0.0250	1	04/14/23	04/15/23	
p,m-Xylene	ND	0.0500	1	04/14/23	04/15/23	
Total Xylenes	ND	0.0250	1	04/14/23	04/15/23	
Surrogate: 4-Bromochlorobenzene-PID		92.0 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	/kg Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/15/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		94.3 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Oil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		108 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



	Sa	imple D	ala			
Hilcorp Energy Co	Project Name:	LC I	Kelly #1E			
PO Box 61529	Project Number	r: 1705	Reported:			
Houston TX, 77208	Project Manage	er: Mite	h Killough			4/20/2023 3:16:48PM
	В	H05 @ 10'				
	1	E304073-10				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys		Batch: 2315071	
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	0.186	0.0250	1	04/14/23	04/15/23	
Toluene	0.127	0.0250	1	04/14/23	04/15/23	
o-Xylene	0.311	0.0250	1	04/14/23	04/15/23	
o,m-Xylene	1.56	0.0500	1	04/14/23	04/15/23	
Total Xylenes	1.87	0.0250	1	04/14/23	04/15/23	
urrogate: 4-Bromochlorobenzene-PID	9	92.4 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	kg Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	44.5	20.0	1	04/14/23	04/15/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		105 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
urrogate: n-Nonane		112 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	Sa	imple D	ata			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	r: 170	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mite	ch Killough			4/20/2023 3:16:48PM
	В	BH05 @ 15'				
]	E304073-11				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst	Batch: 2315071		
Benzene	1.22	0.250	10	04/14/23	04/19/23	
Ethylbenzene	8.04	0.250	10	04/14/23	04/19/23	
Toluene	29.0	0.250	10	04/14/23	04/19/23	
p-Xylene	13.4	0.250	10	04/14/23	04/19/23	
o,m-Xylene	64.8	0.500	10	04/14/23	04/19/23	
Total Xylenes	78.1	0.250	10	04/14/23	04/19/23	
Surrogate: 4-Bromochlorobenzene-PID		88.4 %	70-130	04/14/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	937	200	10	04/14/23	04/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		113 %	70-130	04/14/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	g/kg Analyst: JL			Batch: 2315069
Diesel Range Organics (C10-C28)	156	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		144 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	Sa	imple D	ata			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	r: 170:	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mite	ch Killough			4/20/2023 3:16:48PM
	В	H05 @ 20'				
]	E304073-12				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2315071		
Benzene	0.974	0.0500	2	04/14/23	04/18/23	
Ethylbenzene	2.93	0.0500	2	04/14/23	04/18/23	
Toluene	0.312	0.0500	2	04/14/23	04/18/23	
p-Xylene	1.22	0.0500	2	04/14/23	04/18/23	
o,m-Xylene	26.8	0.100	2	04/14/23	04/18/23	
Total Xylenes	28.0	0.0500	2	04/14/23	04/18/23	
Surrogate: 4-Bromochlorobenzene-PID		98.5 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	202	40.0	2	04/14/23	04/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	:: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	236	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		115 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	Da	ample D	ata			
lcorp Energy Co	Project Name:	LC	Kelly #1E			
D Box 61529	Project Numbe	er: 170	51-0002			Reported:
ouston TX, 77208	Project Manag	ger: Mite	ch Killough			4/20/2023 3:16:48PM
	I	BH05 @ 25'				
		E304073-13				
		Reporting				
alyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
atile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2315071		
zene	ND	0.0250	1	04/14/23	04/18/23	
lbenzene	ND	0.0250	1	04/14/23	04/18/23	
lene	ND	0.0250	1	04/14/23	04/18/23	
ylene	ND	0.0250	1	04/14/23	04/18/23	
Xylene	0.0817	0.0500	1	04/14/23	04/18/23	
l Xylenes	0.0817	0.0250	1	04/14/23	04/18/23	
ogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	04/14/23	04/18/23	
halogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	g Analyst: SL		Batch: 2315071	
oline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/18/23	
ogate: 1-Chloro-4-fluorobenzene-FID		94.1 %	70-130	04/14/23	04/18/23	
halogenated Organics by EPA 8015D - DRO/ORO) mg/kg	mg/kg	Analys	st: JL		Batch: 2315069
sel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
ogate: n-Nonane		104 %	50-200	04/14/23	04/15/23	
ons by EPA 300.0/9056A	mg/kg	mg/kg	Analys	st: BA		Batch: 2315079
oride	22.3	20.0	1	04/14/23	04/14/23	
oride	22.3	20.0	1	04/14/23	04/14/23	



Sample Data

	25	ample D	ata			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Number	er: 170	51-0002			Reported:
Houston TX, 77208	Project Manag	er: Mito	h Killough			4/20/2023 3:16:48PM
	F	BH05 @ 29'				
		E304073-14				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	Batch: 2315071		
Benzene	ND	0.0250	1	04/14/23	04/18/23	
Ethylbenzene	ND	0.0250	1	04/14/23	04/18/23	
Toluene	ND	0.0250	1	04/14/23	04/18/23	
o-Xylene	ND	0.0250	1	04/14/23	04/18/23	
,m-Xylene	ND	0.0500	1	04/14/23	04/18/23	
Total Xylenes	ND	0.0250	1	04/14/23	04/18/23	
urrogate: 4-Bromochlorobenzene-PID		96.8 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	cg Analyst: SL			Batch: 2315071
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/14/23	04/18/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		96.4 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	ND	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
urrogate: n-Nonane		108 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



	Da	imple D	ala			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Number	r: 170:	51-0002		Reported:	
Houston TX, 77208	Project Manage	er: Mite	h Killough			4/20/2023 3:16:48PM
	I	BH06 @ 5'				
		E304073-15				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2315071
Benzene	ND	0.0250	1	04/14/23	04/15/23	
Ethylbenzene	0.529	0.0250	1	04/14/23	04/15/23	
Toluene	0.412	0.0250	1	04/14/23	04/15/23	
-Xylene	0.740	0.0250	1	04/14/23	04/15/23	
,m-Xylene	6.09	0.0500	1	04/14/23	04/15/23	
fotal Xylenes	6.83	0.0250	1	04/14/23	04/15/23	
urrogate: 4-Bromochlorobenzene-PID		93.6 %	70-130	04/14/23	04/15/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	181	20.0	1	04/14/23	04/15/23	
urrogate: 1-Chloro-4-fluorobenzene-FID		132 %	70-130	04/14/23	04/15/23	<i>S3</i>
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	vst: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	275	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
'urrogate: n-Nonane		119 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	yst: BA		Batch: 2315079
Chloride	ND	100	5	04/14/23	04/14/23	



Sample Data

	29	imple D	ลเล			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	r: 170:	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mite	h Killough			4/20/2023 3:16:48PM
	В	H06 @ 10'				
]	E304073-16				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	g Analyst: SL			Batch: 2315071
Benzene	12.2	0.500	20	04/14/23	04/19/23	
Ethylbenzene	39.7	0.500	20	04/14/23	04/19/23	
Toluene	191	0.500	20	04/14/23	04/19/23	
o-Xylene	76.6	0.500	20	04/14/23	04/19/23	
,m-Xylene	353	1.00	20	04/14/23	04/19/23	
Total Xylenes	430	0.500	20	04/14/23	04/19/23	
urrogate: 4-Bromochlorobenzene-PID		94.5 %	70-130	04/14/23	04/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	5360	400	20	04/14/23	04/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		131 %	70-130	04/14/23	04/19/23	<i>S3</i>
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	1380	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
urrogate: n-Nonane		291 %	50-200	04/14/23	04/15/23	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	Sa	imple D	ata			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	r: 1703	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mite	h Killough			4/20/2023 3:16:48PM
	В	BH06 @ 15'				
]	E304073-17				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2315071
Benzene	5.49	1.25	50	04/14/23	04/18/23	
Ethylbenzene	16.9	1.25	50	04/14/23	04/18/23	
Toluene	85.2	1.25	50	04/14/23	04/18/23	
p-Xylene	32.9	1.25	50	04/14/23	04/18/23	
o,m-Xylene	170	2.50	50	04/14/23	04/18/23	
Fotal Xylenes	203	1.25	50	04/14/23	04/18/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	2280	1000	50	04/14/23	04/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		101 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	448	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		254 %	50-200	04/14/23	04/15/23	\$5
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	: BA		Batch: 2315079
Chloride	ND	20.0	1	04/14/23	04/14/23	



Sample Data

	28	imple D	ata			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	r: 170	51-0002			Reported:
Houston TX, 77208	Project Manage	er: Mito	ch Killough			4/20/2023 3:16:48PM
	В	BH06 @ 20'				
]	E304073-18				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL			Batch: 2315071
Benzene	0.448	0.250	10	04/14/23	04/18/23	
Ethylbenzene	3.59	0.250	10	04/14/23	04/18/23	
Toluene	3.62	0.250	10	04/14/23	04/18/23	
p-Xylene	3.72	0.250	10	04/14/23	04/18/23	
o,m-Xylene	37.5	0.500	10	04/14/23	04/18/23	
Fotal Xylenes	41.3	0.250	10	04/14/23	04/18/23	
Surrogate: 4-Bromochlorobenzene-PID		97.3 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst	: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	515	200	10	04/14/23	04/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		104 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst	:: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	370	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	ND	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		189 %	50-200	04/14/23	04/15/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst	:: BA		Batch: 2315079
Chloride	24.3	20.0	1	04/14/23	04/14/23	



Sample Data

	58	imple D	ลเล			
Hilcorp Energy Co	Project Name:	LC	Kelly #1E			
PO Box 61529	Project Numbe	r: 170	51-0002		Reported:	
Houston TX, 77208	Project Manage	er: Mite	ch Killough			4/20/2023 3:16:48PM
	В	BH06 @ 22'				
]	E304073-19				
		Reporting				
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analys	t: SL		Batch: 2315071
Benzene	0.333	0.250	10	04/14/23	04/18/23	
Ethylbenzene	4.84	0.250	10	04/14/23	04/18/23	
Toluene	6.55	0.250	10	04/14/23	04/18/23	
p-Xylene	9.86	0.250	10	04/14/23	04/18/23	
o,m-Xylene	48.3	0.500	10	04/14/23	04/18/23	
Total Xylenes	58.2	0.250	10	04/14/23	04/18/23	
Surrogate: 4-Bromochlorobenzene-PID		97.7 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analys	t: SL		Batch: 2315071
Gasoline Range Organics (C6-C10)	651	200	10	04/14/23	04/18/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		107 %	70-130	04/14/23	04/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analys	t: JL		Batch: 2315069
Diesel Range Organics (C10-C28)	516	25.0	1	04/14/23	04/15/23	
Dil Range Organics (C28-C36)	138	50.0	1	04/14/23	04/15/23	
Surrogate: n-Nonane		211 %	50-200	04/14/23	04/15/23	<i>S5</i>
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analys	t: BA		Batch: 2315079
Chloride	56.3	20.0	1	04/14/23	04/14/23	



QC Summary Data

		QU DI	u	ii y Data	•				
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:		C Kelly #1E 7051-0002					Reported:
	-								
Houston TX, 77208		Project Manager:	M	litch Killough					4/20/2023 3:16:48PM
		Volatile O	rganics l	oy EPA 802	1B				Analyst: SL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315071-BLK1)							Prepared: 0	4/14/23 A	analyzed: 04/15/23
Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.34		8.00		91.8	70-130			
LCS (2315071-BS1)							Prepared: 0	4/14/23 A	analyzed: 04/18/23
Benzene	5.12	0.0250	5.00		102	70-130			
Ethylbenzene	5.10	0.0250	5.00		102	70-130			
Toluene	5.24	0.0250	5.00		105	70-130			
o-Xylene	5.22	0.0250	5.00		104	70-130			
p,m-Xylene	10.4	0.0500	10.0		104	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.81		8.00		97.7	70-130			
Matrix Spike (2315071-MS1)				Source: l	E 304073 -	02	Prepared: 0	4/14/23 A	analyzed: 04/18/23
Benzene	4.11	0.0250	5.00	ND	82.3	54-133			
Ethylbenzene	4.11	0.0250	5.00	ND	82.2	61-133			
Toluene	4.23	0.0250	5.00	ND	84.7	61-130			
p-Xylene	4.21	0.0250	5.00	ND	84.1	63-131			
o,m-Xylene	8.42	0.0500	10.0	ND	84.2	63-131			
Total Xylenes	12.6	0.0250	15.0	ND	84.2	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.70		8.00		96.3	70-130			
Matrix Spike Dup (2315071-MSD1)				Source: l	E 304073 -	02	Prepared: 0	4/14/23 A	analyzed: 04/15/23
Benzene	4.41	0.0250	5.00	ND	88.1	54-133	6.85	20	
Ethylbenzene	4.35	0.0250	5.00	ND	87.0	61-133	5.61	20	
Toluene	4.50	0.0250	5.00	ND	90.1	61-130	6.15	20	
p-Xylene	4.44	0.0250	5.00	ND	88.9	63-131	5.48	20	
p,m-Xylene	8.84	0.0500	10.0	ND	88.4	63-131	4.88	20	
Total Xylenes	13.3	0.0250	15.0	ND	88.6	63-131	5.08	20	
Surrogate: 4-Bromochlorobenzene-PID	7.30		8.00		91.2	70-130			



QC Summary Data

		VC B	umma	ary Data					
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1′	C Kelly #1E 7051-0002 Iitch Killough					Reported: 4/20/2023 3:16:48PM
	No	nhalogenated O	rganics	by EPA 801	5D - Gl	RO			Analyst: SL
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
					70	70	70	/0	TOUS
Blank (2315071-BLK1)							Prepared: 0	4/14/23 A	analyzed: 04/15/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.60		8.00		95.0	70-130			
LCS (2315071-BS2)							Prepared: 0	4/14/23 A	analyzed: 04/15/23
Gasoline Range Organics (C6-C10)	42.7	20.0	50.0		85.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		8.00		100	70-130			
Matrix Spike (2315071-MS2)				Source: I	E304073-0	02	Prepared: 0	4/14/23 A	analyzed: 04/15/23
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.76		8.00		96.9	70-130			
Matrix Spike Dup (2315071-MSD2)				Source: I	E 304073 -(02	Prepared: 0	4/14/23 A	analyzed: 04/15/23
Gasoline Range Organics (C6-C10)	45.2	20.0	50.0	ND	90.4	70-130	3.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		8.00		98.7	70-130			

QC Summary Data

		QC SI	umma	iry Data					
Hilcorp Energy Co PO Box 61529		Project Name: Project Number:	17	C Kelly #1E 051-0002					Reported: 4/20/2023 3:16:48PM
Houston TX, 77208		Project Manager:	М	itch Killough					4/20/2023 3:10:48PM
	Nonh	alogenated Orga	anics by	EPA 8015D	- DRO	/ORO			Analyst: JL
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2315069-BLK1)							Prepared: 04	4/14/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	56.3		50.0		113	50-200			
LCS (2315069-BS1)							Prepared: 04	4/14/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132			
Surrogate: n-Nonane	54.5		50.0		109	50-200			
Matrix Spike (2315069-MS1)				Source: F	304073-	07	Prepared: 04	4/14/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132			
Surrogate: n-Nonane	52.3		50.0		105	50-200			
Matrix Spike Dup (2315069-MSD1)				Source: H	304073-	07	Prepared: 04	4/14/23 A	analyzed: 04/14/23
Diesel Range Organics (C10-C28)	283	25.0	250	ND	113	38-132	3.14	20	
Surrogate: n-Nonane	52.0		50.0		104	50-200			



QC Summary Data

		QU N		i j Duu	•				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	1′	C Kelly #1E 7051-0002 Iitch Killough					Reported: 4/20/2023 3:16:48PM
		Anions	by EPA 3	300.0/9056A					Analyst: BA
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	
Blank (2315079-BLK1)	NID						Prepared: 0	4/14/23	Analyzed: 04/14/23
Chloride LCS (2315079-BS1)	ND	20.0					Prepared: 0	4/14/23	Analyzed: 04/17/23
Chloride	268	20.0	250		107	90-110			
Matrix Spike (2315079-MS1)				Source: 1	E304073-(01	Prepared: 0	4/14/23	Analyzed: 04/14/23
Chloride	251	20.0	250	ND	100	80-120			
Matrix Spike Dup (2315079-MSD1)				Source: 1	E304073-0	01	Prepared: 0	4/14/23	Analyzed: 04/14/23
Chloride	263	20.0	250	ND	105	80-120	4.52	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

	2 • • • • • • • •		
Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Mitch Killough	04/20/23 15:16

S3 Surrogate spike recovery was outside acceptance limits. LCS spike recovery was acceptable.

S5 Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



Released to Imaging: 5/15/2023 1:41:13 PM

Project Information

Chain of Custody

Client: Hilcorp	Bill To		14	1.543	La	b Us	e Onl	y la		TAT		EPA P	rogram
Project: LC Kelly #1E	Attention: Mitch Killough			NO#	~ ~	No.	Job N	lumber	LD 2D	3D	Standard	CWA	SDW
Project Manager: Mitch Killough	Address:		FQ	041	015			51-0002			Setting Descarger New		DCDA
Address: City, State, Zip	City, State, Zip Phone:		-		1	- í	Analys	sis and Method		<u> </u>			RCRA
Phone:	Email:	1	5	5							seased to be an	State	L
Email: MKillough Chilcorp. com			801	801	-			0			NM CO	UT AZ	TX
Report due by:			KO by	Vd OX	802	8260	2010	5300			X		
Time Date Sampled Matrix No. of Containers Sample	ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				Remarks	
0900 4-12-23 Soil 1 BHO	02@10	$ 1\rangle$	X	X	X			\times					
0930 BH	02 C 25'	2	1	1	1								
1000 BH	02@301	3											
	02 @ 33'	4									-		
	03 @ 15'	5											
	03 @35'	6											
	04@30'	7											
1510 BH	04@35'	8											e"
	04@38'	9											
	05@10'	10	V	V	V		1	\checkmark					-
Additional Instructions: cc: shyde (Densolum.com, dburns	Gen	50	un	1. c	om	٢						
, (field sampler), attest to the validity and authenticity of this san date or time of collection is considered fraud and may be grounds	nple. I am aware that tampering with or intentionally mislabelling to sfor legal action. <u>Sampled by: Danny</u>	the sample lo						requiring thermal pres n ice at an avg temp ab					d or receive
Relinitoished by (Signature) Date 4-13-23	Time 14:57 Received by (Signature) St	Date 4/13	23	ime 4[';	57		Recei	ved on ice:	Lab Us	e Only			
Relinquished by: (Signature) Date	Time Received by: (Signature)	Date	Т	ime			<u>T1</u>	Т	2		<u>T3</u>		
Relinquished by: (Signature) Date	Time Received by: (Signature)	Date	Т	ime			AVG	Temp [°] C 4	der ander fan Seren ander September (1994)				
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Ot								stic, ag - amber					and the second
	orted unless other arrangements are made. Hazardous sam								kpense.	The report	for the analy	sis of the al	oove
samples is applicable only to those samples received by th	e laboratory with this COC. The liability of the laboratory is	innited to th	ie amol	unt pa	a10 T01	on th	ne repo	urt.					

Page 1 of 2

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elinquished by: (Signature) Date Time			ame	Received by: (Signatu	re)	Date	Time			AVG Temp ^o C_ <u>4</u>													
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							her arrangements are made vith this COC. The liability of									t the c	ient exp	pense.	The re	port fo	or the analys	is of the ab	ove

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Client:	Hilcorp Energy Co Da	te Received:	04/13/23	14:57		Work Order ID:	E304073
Phone:	- Da	te Logged In:	04/13/23	15:08		Logged In By:	Caitlin Christian
Email:		ie Date:	04/20/23	17:00 (5 day TA	Τ)		
Chain o	f Custody (COC)						
1. Does	the sample ID match the COC?		Yes				
	the number of samples per sampling site location match	the COC	Yes				
3. Were	samples dropped off by client or carrier?		Yes	Carrie	r: <u>Danny Burns</u>		
4. Was t	he COC complete, i.e., signatures, dates/times, requested	analyses?	Yes				
5. Were	all samples received within holding time? Note: Analysis, such as pH which should be conducted in the i.e, 15 minute hold time, are not included in this disucssion.	field,	Yes			<u>Commen</u>	ts/Resolution
Sample	Turn Around Time (TAT)						
	ne COC indicate standard TAT, or Expedited TAT?		Yes				
Sample							
7. Was a	a sample cooler received?		Yes				
8. If yes	, was cooler received in good condition?		Yes				
9. Was t	he sample(s) received intact, i.e., not broken?		Yes				
10. Were	e custody/security seals present?		No				
11. If ye	s, were custody/security seals intact?		NA				
	the sample received on ice? If yes, the recorded temp is 4°C, i.e., Note: Thermal preservation is not required, if samples are rec minutes of sampling	ceived w/i 15	Yes				
13. If no	o visible ice, record the temperature. Actual sample ten	nperature: <u>4°</u>	<u>C</u>				
	<u>Container</u>						
	aqueous VOC samples present?		No				
	VOC samples collected in VOA Vials?		NA				
	e head space less than 6-8 mm (pea sized or less)?		NA				
	a trip blank (TB) included for VOC analyses?		NA				
	non-VOC samples collected in the correct containers?	11 / 10	Yes				
	e appropriate volume/weight or number of sample containers	conected?	Yes				
Field La	a <u>bel</u> e field sample labels filled out with the minimum informa	ation					
	sample ID?	ati011.	Yes				
	Date/Time Collected?		Yes				
	Collectors name?		Yes				
	Preservation						
	s the COC or field labels indicate the samples were prese	rved?	No				
	sample(s) correctly preserved?		NA				
24. Is la	b filteration required and/or requested for dissolved meta	ls?	No				
	nase Sample Matrix						
	s the sample have more than one phase, i.e., multiphase?		No				
27. If ye	es, does the COC specify which phase(s) is to be analyzed	1?	NA				
Subcont	tract Laboratory						
28. Are	samples required to get sent to a subcontract laboratory?		No				
29. Was	a subcontract laboratory specified by the client and if so	who?	NA	Subcontract I	Lab: NA		
Client]	Instruction						

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.

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

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

District III

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

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

COMMENTS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	214738
	Action Type:
	[C-141] Release Corrective Action (C-141)

COMMENTS

Created By		Comment Date
jharimon	missing C-141 pages. I will let you decide if you want to reject this or request the pages.	5/8/2023

Page 98 of 99

Action 214738

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

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

District III

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

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

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	214738
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
nvelez	1. OCD approves SVE Pilot Test. 2. Hilcorp to perform the SVE pilot test within 60-days of BLM and NMOCD (July 14, 2023) approval of this Site Characterization Report and Remediation Work Plan. 3. Submittal of a SVE Pilot Test Report along with a Final Remediation Plan are due by September 12, 2023.	5/15/2023

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Action 214738