State of New Mexico Energy, Minerals and Natural Resources Department

Michele Lujan Grisham

Governor

Sarah Cottrell Propst Cabinet Secretary

Dylan FugeDeputy Cabinet Secretary

Dylan FugeActing Director,
Oil Conservation Division



March 15, 2024

Mitch Killough - Environmental Specialist Hilcorp Energy Company 1111 Travis Street Houston, TX 77002

RE: Conditional Approval of Soil Vapor Extraction Remediation Method for L C Kelly #001E; (API #: 30-045-25349; Incident #: Napp2308124076; Application ID: 293036)

Mr. Killough,

The Oil Conservation Division (OCD) has reviewed and approved the subject work plan with the following conditions;

- 1. Hilcorp's SVE system must be designed to have a minimum of 90% operational runtime, 24/7, start to finish. Operation & maintenance (O&M) or any matter that requires a temporary downtime should be excluded within the applicable runtime.
- 2. On-site analog or digital runtime counter must be installed and viewable to OCD personnel. Any alternative method must be explained and pre-approved by OCD.
- 3. The following field data measurement parameters will be required and reported (prior to reaching vacuum pump);
 - a. Total Extracted Flow Rate via a Flow Meter
 - b. Flow Rates from each vapor extraction point/well (VEP)
 - c. Volatile Organic Compound (VOC) Concentrations for each VEP and/or VEP cluster being implemented via Handheld Gas Analyzer (e.g. Photo Ionization Detector (PID)
 - d. Record vacuum pressure at each VEP and/or VEP cluster being implemented
 - e. Oxygen (O₂) and carbon di-oxide (CO₂) levels via hand-held analyzers from each VEP and/or VEP cluster being implemented, prior to reaching vacuum pump and at discharge orifice or vent stack
- 4. The following minimum timeline will be required for the above data recordings;
 - a. Daily for the first week
 - b. Weekly for the next three (3) months
 - c. Monthly thereafter for the first calendar year
 - d. Then contingent upon the recorded data output
- 5. Any water condensation will be categorized as oil field waste and must be disposed of accordingly. System modifications to address increased water collection and disposal must be pre-approved by OCD.
- 6. Extracted vapor sampling (prior to reaching vacuum pump) for laboratory testing will be required as follows;
 - Approximately 15-30 minutes and approximately 8-10 hours after startup (or at the end of the same day if initial sample collected in early morning), one full round of sampling for constituents noted in b, c, & d below
 - b. BTEX per US EPA Method 8021B or 8260B
 - c. TPH per US EPA Method 8015M
 - d. O₂ and CO₂

March 15, 2024 Page 2

RE: Conditional Approval of Soil Vapor Extraction Remediation Method for L C Kelly #001E; (API #: 30-045-25349; Incident #: Napp2308124076; Application ID: 293036)

- 7. The following timeline will be required for the above laboratory sampling elements;
 - a. Weekly next three (3) weeks (first month)
 - b. Bi-weekly (twice a month) next two (2) months (first quarter)
 - c. Bi-Monthly (every other month) next nine (9) months (first year)
 - d. Quarterly Year #2 until diminishing returns has been consistently documented
- 8. Hilcorp must submit to OCD quarterly reports for the first 2 years of operation. Reports are due no later than the 15th in the months of April (first quarter), July (second quarter), October (third quarter), and January (fourth quarter), then bi-annual thereafter (1st & 3rd or 2nd & 4th quarters), detailing the following;
 - a. Summary of remediation activity
 - b. Chart of O₂ & CO₂ levels over time
 - c. SVE runtime
 - d. SVE mass removal
 - e. Product recovery, if applicable
 - f. Laboratory air sample analysis, if applicable
- 9. Hilcorp must notify OCD of its initial system startup which is required within 120 days of this approval. If this cannot be achieved, Hilcorp must verify the delay within its request for a time extension.
- 10. Hilcorp must submit to OCD a closure plan prior to initiating confirmation sampling for final remediation termination.

These conditions by the OCD does not relieve Hilcorp of responsibility for compliance with any federal, state, or local law.

If you have any questions, please contact Nelson Velez of the Environmental Incident Group at (505) 469-6146 or by email at <u>nelson.velez@emnrd.nm.gov</u>.

Respectfully,

Michael Bratcher

Incident Group Supervisor

(575) 626-0857

Nelson Velez Nelson Velez

Environmental Specialist - Adv

(505) 469-6146

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Incident ID	nAPP2308124076	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation point ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29. ☑ Proposed schedule for remediation (note if remediation plan times) 	12(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	ifirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Mitch Killough	
Signature:	Date: <u>12/11/2023</u>
email: <u>mkillough@hilcorp.com</u>	Telephone:713-757-5247
OCD Only	
Received by:	Date:
Approved	Approval
Signature: Nelson Velez	Date: 03/15/2024



December 11, 2023

New Mexico Oil Conservation Division

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

Re: Updated 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 *Updated Site Investigation Report and Remediation Work Plan* for 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 the valve to rupture. The released fluids remained within the secondary containment earthen berm, with the observed 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.

Initial Site investigations were conducted in April 2023 to assess and delineate the vertical and lateral extent of impacts originating from the release. Based on field screening observations and analytical data collected from soil borings BH01 through BH06, boring BH01 was completed as nested soil vapor extraction (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. Slotted casing was installed across the subsurface interval with the highest petroleum hydrocarbon impacts based on photoionization detector (PID) readings in order to direct the applied vacuum to these depth intervals. 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.

A Site Investigation Report and Remediation Work Plan (dated May 2, 2023) was prepared by Ensolum and subsequently approved by the New Mexico Oil Conservation Division (NMOCD) and BLM. Additional information regarding the Site including the release background, Site investigation data, results, and recommendations is presented in the May 2023 work plan.

SITE CLOSURE CRITERIA

As presented in the May 2023 work plan, the following Closure Criteria apply to the Site in accordance with *Table I, Closure Criteria for Soils Impacted by a Release* (Table I Closure Criteria), 19.15.29.12 of the New Mexico Administrative Code (NMAC):

- 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

SVE SYSTEM PILOT TESTING RESULTS

To determine if SVE would effectively remediate the Site in a reasonable timeframe and to aid in system design, Ensolum conducted a pilot test on July 13, 2023, to determine the optimal flow rate and applied vacuum required to volatilize and remove petroleum hydrocarbons from the impacted subsurface soils. Pilot test data was also used to estimate the system's radius-of-influence (ROI) and radius-of-effect (ROE) and to determine whether additional SVE wells are needed at the Site. Based on the favorable, observed, and calculated ROI/ROE of 30 feet, as well as the analytical results gathered during the pilot test, SVE was determined to be a viable remediation technique. Details of the pilot test were provided in the *Soil Vapor Extraction Pilot Test Report* prepared by Ensolum and submitted to the NMOCD on September 8, 2023.

ADDITIONAL DELINEATION ACTIVITIES AND RESULTS

As proposed in the May 2023 work plan, additional drilling and delineation activities were performed once the pilot test was completed and access to off-pad areas was approved by the BLM. Ensolum submitted notice of sampling to the NMOCD and BLM on October 11, 2023 (Appendix A). Drilling was performed by Enviro-Drill, Inc. using a Central Mining Equipment (CME)-75 hollow-stem auger drill rig. Five additional borings (BH07 through BH11) were advanced at the Site to depths ranging from 35 feet to 48 feet below ground surface (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 PID, with results noted on the field boring logs (attached as Appendix B). 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.

In general, fine to coarse-grained, poorly sorted sand and silty sand were encountered in all borings at the Site. Groundwater was not encountered in any of the borings during drilling. Concentrations of benzene, total BTEX, TPH-GRO+DRO, Total TPH, and chloride were not detected in any of the analyzed samples exceeding the NMOCD Table I Closure Criteria. A



summary of analytical results is presented in Table 1 and depicted on Figure 2. Complete laboratory reports are attached as Appendix C. Based on the delineation activities described above, impacted soil at the Site has been successfully delineated. Based on the areal extent and depth of impacts, an estimated 1,500 cubic yards of impacted soil are present at the Site.

All borings advanced in October 2023 were completed as SVE wells for potential use during future remediation. Slotted 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. 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.

UPDATED REMEDIATION WORK PLAN

As stated above, SVE is a viable technology to remediate subsurface impacts at the Site. Based on the pilot test results, the SVE system should be sized to apply a minimum of 100 inches of water column (IWC) vacuum and a flow rate of 150 inlet cubic feet per minute (icfm) and approximately 85 standard cubic feet per minute (scfm). Based on the areas of impacted soil, the system will be initially constructed to induce flow and vacuum on SVE wells SVE01, SVE02, and SVE04 through SVE11 concurrently (shown on Figure 3); however, an adjustable manifold will be constructed for the system allowing the wells to be cycled, if necessary. At the elevation corrected flow rate and with the 10 wells each operating at 7.5 scfm (for a combined system flow rate of approximately 82.5 scfm), the system can achieve the ROE, annual pore volume exchanges, and pore velocities required for Site remediation. If an increase in individual well flow rate is observed after initial SVE system startup, the system will be designed so that SVE wells can be cycled to operate two at a time and induce the required vacuum.

OPERATIONS AND MAINTENANCE PLAN

Regular operation and maintenance (O&M) visits will be conducted at the Site to ensure the system is operating properly and assess for any required maintenance. Specifically, personnel will check that the SVE system is operating within normal working temperature, pressure, and vacuum range. System runtime will be recorded during each visit and vapor concentrations will be periodically measured with a PID from a sampling port located on the inlet side of the vacuum blower and prior to the dilution valve. Vacuum, temperature, and flow measurements will also be recorded. Any deviations from normal operating parameters will be recorded and corrected by onsite personnel, if possible. The SVE system will also be connected to Hilcorp's telemetry network so that Hilcorp personnel will be notified immediately of any system downtime via email. Immediate notification will allow for quick response to maximize system runtime.

FUTURE RUNTIME CALCULATIONS AND PROPOSED REMEDIATION TIMELINE

The SVE system will be tied into grid power to allow the system to operate for 24 hours per day. Based on 24 hours of available runtime, the system will have to operate a minimum of 7,884 hours per year to maintain a 90% efficiency. A runtime meter will be installed on the SVE system in a location accessible to the NMOCD and will be used to track runtime hours. Downtime outside of Hilcorp's control (i.e., equipment failure) will be accounted for and the total available annual runtime hours will be adjusted. This information will be detailed and submitted to the NMOCD in quarterly Site reports.

The United States Army Corps of Engineers, *Soil Vapor Extraction and Bioventing – Engineer Manual*, dated June 3, 2002, states "Unless target cleanup goals are low or initial concentrations are very high, 1,000 to 1,500 pore volumes would be a good estimate of the required air



exchanges". Although the calculated annual pore volume exchanges presented in the *Soil Vapor Extraction Pilot Test Report*, dated September 8, 2023, are less than the recommended value of 500, Ensolum recommends the installation of an SVE system at the Site based on the favorable, observed and calculated ROI of 30 feet, as well as the mass removal analytical results obtained during pilot testing. Assuming the SVE system is able to achieve the anticipated flow and vacuum presented above, the system should be able to achieve between 1,000 and 1,500 pore volume exchanges in 4 to 5 years of operation if 100% operational runtime is achieved. If TPH-GRO concentrations collected from the system become asymptotic before the estimated closure date, the system will be adjusted in attempts to maximize performance and increase mass removal.

Once the system is operational, quarterly reports will be prepared and submitted to the NMOCD to present air sample results, mass removal calculations, and any system adjustments required during the previous quarter of operation. Based on the above assumptions, the following general timeline is anticipated for the operation of the system. Day zero (0) is the date on which the NMOCD and the BLM approve this report and work plan.

- Months 0 to 6 Acquire/construct and install the SVE system per the specifications outlined in this report. Additionally, a permanent power drop is not located at the Site and will need to be installed prior to system hookup. Hilcorp will work with the local electrical utility in order to install the appropriate power drop.
- 6 Months to 1.0 Years Collect regular air samples from the SVE system at a location upstream of the blower and any dilution valves. Assess system efficacy and update the remediation timeline based on sampling analytical results after 6 to 12 months of operation. Perform system maintenance and optimize system operation, as necessary. Continue O&M visits to monitor system performance and prepare quarterly reports.
- 1.0 Years to 4.5 Years At any point, if air concentrations of TPH-GRO collected from the system become asymptotic and/or are below 1.0 milligrams per liter (mg/L), soil samples can be collected and analyzed for TPH and BTEX constituents to determine if concentrations are below NMOCD Table I Closure Criteria (as described below). Additionally, the system will be adjusted to maximize performance and address areas with remaining soil impacts. Continue air sample collection, monitoring, and reporting as necessary.
- Year 4.5 Collect soil confirmation samples and analyze for TPH and BTEX constituents as described below. Request Site closure if soil sample results are below NMOCD Table I Closure Criteria. If soil concentrations are above Closure Criteria, the remediation timeline will be reviewed, and the system will be adjusted to maximize performance and address areas with remaining soil impacts. Continue quarterly air sample collection, monitoring, and reporting as necessary.

REFERENCES

United States Army Corps of Engineers (USACE), 2002. Engineering and Design, Soil Vapor Extraction and Bioventing - Engineer Manual, Document EM 1110-1-4001. June 3, 2002.



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, PG Senior Geologist (970) 903-1607 shyde@ensolum.com Daniel R. Moir PG Senior Managing Geologist (303) 887-2946 dmoir@ensolum.com

Hannah Mishriki, PE Senior Engineer (610) 390-7059

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hmishriki@ensolum.com

Attachments:

Figure 1: Site Location Map
Figure 2: Soil Analytical Results

Figure 3: SVE System Radius of Influence and Radius of Effect

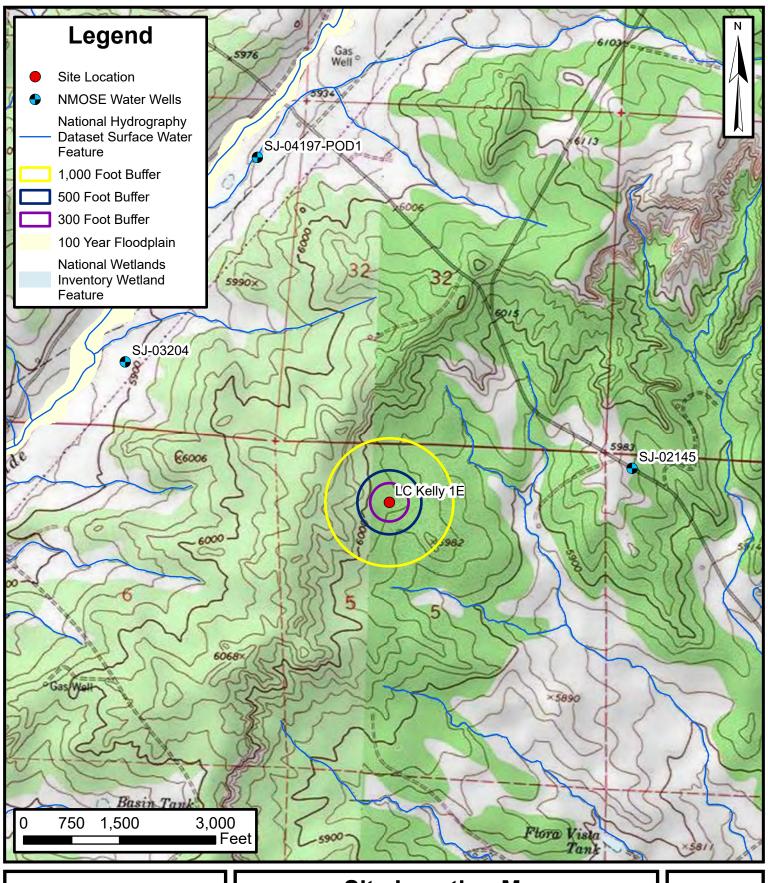
Table 1: Soil Analytical Results

Appendix A: NMOCD Correspondences
Appendix B: Lithologic/Soil Sampling Logs
Appendix B: Laboratory Analytical Report





FIGURES





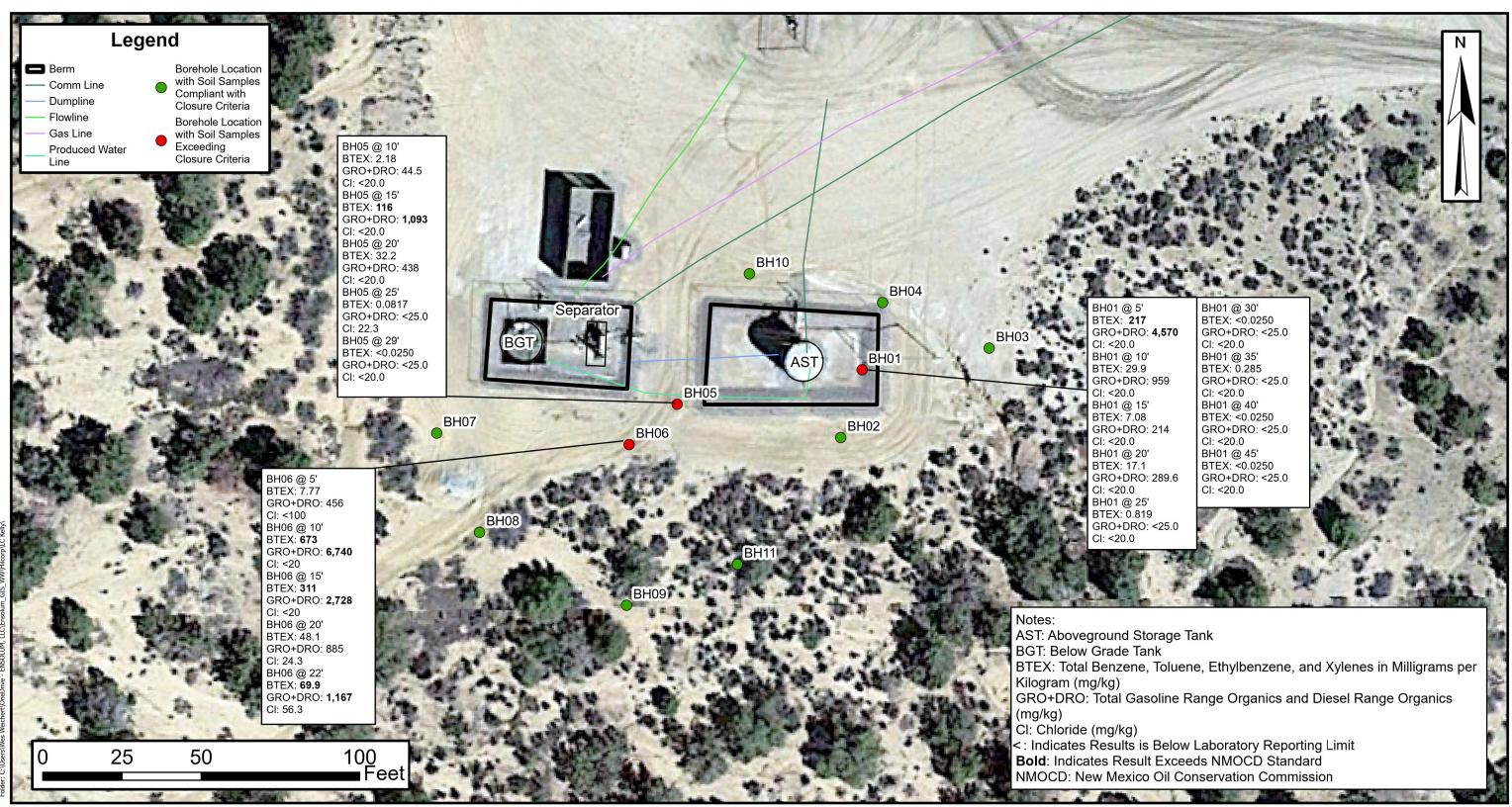
Site Location Map

L C Kelly 1E Hilcorp Energy Company

36.84600, -108.12450 Unit C, Sec 05, T30N, R12W San Juan County, New Mexico FIGURE

1

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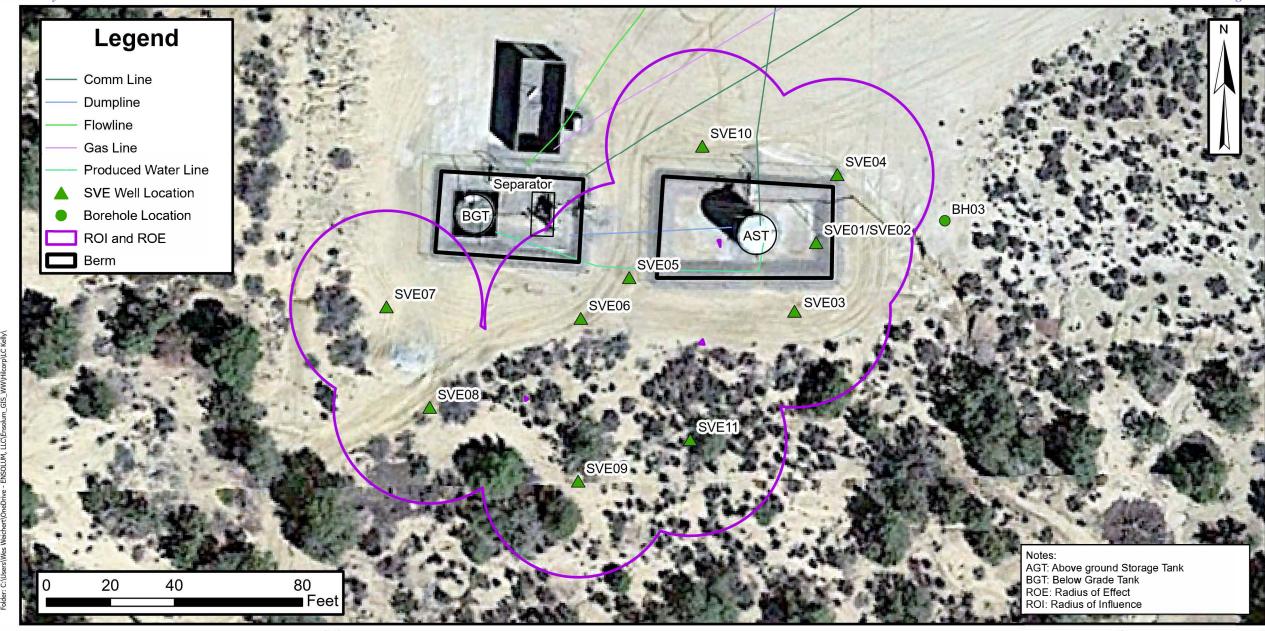


Soil Analytical Results

L C Kelly 1E
Hilcorp Energy Company

36.84600, -108.12450 Unit C, Sec 05, T30N, R12W San Juan County, New Mexico FIGURE

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SVE System Radius of Influence and Radius of Effect

L C Kelly 1E Hilcorp Energy Company 36.84600, -108.12450

Unit C, Sec 05, T30N, R12W San Juan County, New Mexico **FIGURE**



TABLES

ENSOLUM

	TABLE 1 DELINEATION SOIL SAMPLE ANALYTICAL RESULTS L C Kelly 1E Hilcorp Energy Company												
					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 Release	Impacted by a	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	29.6	<50.0	289.6	289.6	<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	<0.0250	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	161.4	161.4	<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	7.77	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			
BH07 @ 30'	10/16/2023	30	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	21.4			
BH07 @ 35'	10/16/2023	35	<0.0250	0.171	<20.0	61.4	<50.0	61.4	61.4	<20.0			
BH07 @ 40'	10/16/2023	40	<0.0250	3.94	145	49.7	<50.0	195	195	<20.0			
BH07 @ 45'	10/16/2023	45	<0.0250	0.120	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH08 @ 44-46'	10/17/2023	44 - 46	<0.0250	0.166	<20.0	41.6	<50.0	41.6	41.6	20.9			
BH08 @ 48'	10/17/2023	48	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH09 @ 25'	10/18/2023	25	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	55.2			
BH09 @ 30'	10/18/2023	30	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	44			
BH09 @ 35'	10/18/2023	35	<0.0250	0.920	<20.0	<25.0	<50.0	<50.0	<50.0	27.7			
BH09 @ 40'	10/18/2023	40	<0.0250	0.772	<20.0	<25.0	<50.0	<50.0	<50.0	23.6			
BH09 @ 45'	10/18/2023	45	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	24.1			
BH10 @ 5'	10/18/2023	5	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH10 @ 10'	10/18/2023	10	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH10 @ 25'	10/18/2023	25	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH10 @ 35'	10/18/2023	35	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH11 @ 25'	10/18/2023	25	<0.0250	<0.0250	<20.0	25.4	<50.0	25.4	25.4	<20.0			
BH11 @ 30'	10/18/2023	30	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH11 @ 40'	10/18/2023	40	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			
BH11 @ 45'	10/18/2023	45	<0.0250	<0.0250	<20.0	<25.0	<50.0	<50.0	<50.0	<20.0			

Notes:

bgs: below ground surface

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

mg/kg: milligrams per kilogram

NA: Not Analyzed

NE: Not Established

NMOCD: New Mexico Oil Conservation Division

': feet

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon

<: indicates result less than the stated laboratory reporting limit (RL)</p>

Concentrations in **bold** and shaded exceed the New Mexico Oil Conservation Division Table 1 Closure Criteria for

Soils Impacted by a Release



APPENDIX A

NMOCD Correspondences

From: <u>Stuart Hyde</u>

To: <u>Velez, Nelson, EMNRD</u>; <u>Adeloye, Abiodun A</u>

Cc: Zach Myers; Eric Carroll; Devin Hencmann; Mitch Killough; Christopher Bramwell; Ray Shelby

Subject: L C Kelly 1E (nAPP2308124076) - Additional Drilling and Sampling Notification

Date: Wednesday, October 11, 2023 4:35:00 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 Monday October 16, 2023 at 10 AM. Please reach out with any questions or comments. Thanks.



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



APPENDIX B

Lithologic/Soil Sampling Logs

	Drilled B	pled: 4.	1 S O -11-23 o-brill Burns			Project Na Project Lo Project M Ground S	rdinate:	Project No.: 07 Borehole Diam Casing Diamete Well Materials	eter: 8" er: 2" : PVC sch 40 etion: WM GUC	
	DEPTH (FEET)	SAMPLE	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	V	BORING/WELL COMPLETION	
VIII6.	0]		75%	>5,000		5W	Brown, med-coarse : No stain, strong hydroco odor- SL Moist.	sound		
25/50 3"	8		75	>5,000		sw- sm	" "SAA. Dir, no strong odor. W/some	stain Fines.	Thurst I March	
31/50 34	12 -		50	2,950		sw	Brown, coarse sand w/s No stain, strong order.		Mandian	
27/50 2"	16 18		50	2,065		SW- SM	Brown med-coarse sam No stain, strong-modern	te odor.	Anth minut	20-5' screen
25/50 4"	22		100	945		SW -SM	Brown, med-coarse sand No stain, med odor. D some compaction.			22-20 cuttings! Hydrated Bentonite 24-22'
29/50 5"	26 28 30	-	100	253		SM SM	Lt. gray med sand w/ sit. sweet gassy odor.	silt.		
30/50 2"	32 34		100	732		SW	Brown med-course some sit to mod, HC odor,	degraded.	THE THE THE	sand 41'-24'
50 5"	36 38 40		25	272		SW -SM	J - J /	wolsilf	Mangara	
32/50 4"	42		75°	220		SWM -SM	We silt. 51t. oder.	and	10-25 screen Packfill to 41'	
35/50 2"	46 48 50		25	43		Sw	4. gray. med sand. No stain/odor.		with cultings	

	Date Sam Drilled By Driller: E	pled: 4- : Jun	12-23	L U	М	Project Na Project Lo Project M Ground S		Project No.: 07 Borehole Diam Casing Diamet Well Materials	A1988069 neter: 3" ner: 2"	
	рертн (FEET)	SAMPLE TINTERNAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	Boring Method	BORING/WELL COMPLETION	
1/2/2 6"	0 1 2 4 4 6		100	5.6			, , , , , , , ,	nsolidated.		Bertonik 21-0'
27/50 3"	8 10	0900	100	23.7		SW	Lt. brown coarse sa LBrown med-coarse sor Fruce sill. No s/o. Dr LL. brown coarse sound	м. У·		
25/50 5"	14		75	17.6		sw	Dry. No sto.			
39/50 5"	20 22 24		100	3,3		SW -SM	No 5/0 Lt Brown med- course sound	w/siH.		21'-33' sand 23'-33' screen
50 6	26 28 30	0190	100	175			Lt. gray mid. sand w/ some comentation.			
35 0 5"	32 Refase 34 36 38 40	1010		484		SW-5 11	SAA + then Lt. Brown m W/silt, SLt. Moist. No st Slight gassy HC odor, swee Refusal @ 33', sand Augered down for 5 min no depth progress.	07.		83' Retusal
	42 44 46 48 50									

							1.3		
	E	EN	SO	LU	М	Project Na Project Lo	corp Ehergy Co. ime. LC Kelly 1E cation: 36 84615" N, 108.12417" W anager: Stuart Hyde	BORING L BH Project No.: 07	
	Driller: J	wern	2-23 EO-DRIL Burns	L		Ground Surface Elevation: 5,990' Top of Casing Elevation: North Coordinate: West Coordinate: West Coordinate: Boring Method			eter: 8" er: 2" : ** etion: **
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	N	BORING/WELL COMPLETION
9/14/25 6"	2 4		100	2.9		SW .	Lt. Brown med. well sand w/ sitt. Dry, no stain/odor. Loose.	granoled	
50 6"	8		100	2.1		5W -SM	SAA. NO S/O.		No weil set.
50 5"	12 14		75	7.8		SW -SM	Brown med coarse sa w/sitt. Day. No s/e	nd o	Borehde
50 5"	16 18		50	3.2		SW -SM	SAA. Dry. No sto).	backf.le
3 9 /50 8"	22	-	75	2.5		SW -SM	Lt. Brown med. coars	se sand	cutting
50 4"	26 _ 28 _		25	2.3		SW -SM	SAA . NO S/O	1 35	
50 4"	30 32 34 36	1310	25	2,1		SW -SM	Lt. Brown med sand semi-cemented. Dry. Very hard drilling. Refusal (35'	W/sitt- Nos/o	
	38 40 42						-No observed im left hole open. well set at this	No	
	46 48 50								

	Date Sam	pled: 4-	N S C		М	Project N Project L Project M	lcorp Energy Co. ame. LC Kelly 1E ocation: 36.84615° N, 108.12417° W lanager: Stuart Hyde ourface Elevation: 5,990'	Project No.: 07 Borehole Dian	neter: 8"	
	Driller:	Juan	ro- Dri ly Burr			Top of Ca North Co West Coo		Casing Diamet Well Materials Surface Comp Boring Methor		
	рертн (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	N	BORING/WELL COMPLETION	
10/18/30	2 - 4		100	1.1		-SM	H. Brown med son w/sitt. Dry. No	nd 5/0		
29/50 4"	8 -		25	3.7		wa	H. Brown/tan co sund, some grave Dry, No s/o	el.		Bentonite Plug
29/45/50	12		100	2.3		5W	SAA. coarse sand v	u/gravel		surface
16/25/50-5	1		100	1.6		SW	Brown coarse sand SL. moist, No stain	l, dense, loda.		
50-5"	22 24		25	4,3		SW	Brown coarse sand. Dense bry - No S			1
50.4"	26		25	8.5		sw				26' sand
50 - 4"	32	1500	25	55.8		SW -SM	stiant hontaded the box	u.		
50 - 4"	36 38 Patusi 40	1540	25'	5.1		SW SM	Higray med sand w Dense some cemental. Dry, NO S/O. Refusal W/ HSA	7 si 17. 00, 12 38'		38'-18' Screen
	42 44						Well set @ 38'-28'			
	46 48									
L	50 T									J

	Date Sam	pled: 4-	13-23	LU	М	Project No Project Lo Project M Ground S	lcorp Energy Co. ame LC Kelly 1E ocation: 36 84615° N, 108 12417° W lanager: Stuart Hyde urface Elevation: 5,990'	Project No.: 07 Borehole Diam	A1988069 leter: g ¹¹	
	Driller	T	y Burn			North Coo West Coo		Casing Diamet Well Materials Surface Comp Boring Methoo	etion: slick up	
	DEPTH (FEET)	SAMPLE	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	N	BORING/WELL COMPLETION	ekup
1/3/3	2 1		100	0.1		SW -SM	Brown, med. sand St. moist, No stainfor	w/silt. dor.		
50-5"	8	0930	50	1,226		SW	Gray + brown med-co sund. Tr. silt. Dry. Slight stain + odor.	parsc		
50-5"	12	0450	50	3,823			Gray mod-coarse so W/silt. Moderate st Dry.		11111111	
26/50 - 4"	18	1000	75	4,103		SW -SM	Dark gray and brown is med-course sound. Mod. Dry. Gray fine-med san		- - '/	
39/50 - 4"	22 24 24	1020	100	584			some comentation		Back F.11	
so-4"	26 28 4 freel 30	1635	25	102			Gray, for-med sand Dense, compacted, some Dry, and stain, st. Refusal @29'	w/sitt cement. odor.	20' w/cuttings	29' Refusi
	34 36						Set SUE well 20'-	10'		
	38 40									
	42 44									
	46 48 50									21 No.

	Drilled By Driller: J	pled: 4-1 :Enviro-	3-23	LU	М	Project Na Project Lo Project Ma Ground Su		BORING LOG NUMBER BHO6 Project No.: 07A1988069 Borchole Diameter: 2" Casing Diameter: 2" Well Materials: ₹VC Surface Completion: 5₹CK ♣♥ Boring Method: ₩SA			
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO		BORING	G/WELL LETION	
6/7/13 36/50-4"	0 1 2 - 4 - 6 - 8 - 10	1230	100	2,066		SW SW	Brown Med-coarse Bard 51. moist. Q5'-L1. gray coarse of mod. starn Lodor. Lt. gray. med. Sand. Tr. SiH. Mod. S/O.	sand w/sitt			Bentonite plug 8-0' Sand 8'-22'
50-5"	12	1255	700 000 00	2,936			Mod. S/O. Brown med-coarse so No stain, mod. odor		San Section of the Section	The state of the s	Screen 20'-10'
50-5"	20 22 Refusit 24	1305	25.	2018		SW	No stain, mod. odor H. Brown med t-med-o sound. No stain, mod. Petural @22	oder.			contlings backfill to 20'
	26										
	34 36 38 40										
	42 44 46 48 50										

[2	EN	N S C	LU	M	Client: Project N	ame: LC Kelly 1E		OG NUMBER			
D						Project L Project M	ocation: Flora Vista, NM lanager: Stuart Hyde Proje	ect No.:	07			
Drille	d By: ↓ r: ∵	ENI	16-73				urface Elevation: Bore sing Elevation: Casin ordinate: Well rdinate: Surfa	Borehole Diameter: Casing Diameter: 2 Well Materials: PV Surface Completion: Boring Method:				
рертн	(reel)	INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION		BORING/WELL COMPLETION			
0 1 2 3 4 5 6	+ 7	3-5	loch	6 -3		5.41	It, Yellow brown moise med -crars: sand NO Stain Lodge					
7 8 9 10 11 12		5	100/c	1.9		SM.	SAA' No Stainlodge					
13 14 15 16 17	15, 17,	5	50°10	7. 7		5М	DRy It borown/white coarse sand No Stain 1900		tool of			
19 20 21 22 23	22	5	109H	12.3		ζM	moise brown coase sand few gravel ND Stain/Ida					
24 25] 25 27	5	10%	28-9		5M	moist red/brown coo Sand No Stain 10day					

BH 07

	DEPTH	SAMPLE	L	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
A	30 31 32 33	3	g.5	100%	112		511	Red brown Moist Sand few gravel No Stain Slight ador	B B
B	:	5	35 - 37.5	100%0	>5,000	/	5.M	SAA NO Stain Strong	
*		38 39 40 41	40.	1.007	1,945		SM	SAA -41-42-5 It graf clay Dig	
,	4-	42 43 44 45	4) 6 4 4 45 -	0- 100%				gray Stained medium Sand Slight adar	(1)(3)(0)
Þ	*	46 47 48	47	60%	690 69.0	2		gray Stained Sand Some Comentation Slight odar	
		50 51 52						TD = 45'	
		53 54 55	†						

Date Sampl Drilled By: Driller: Ji Logged By:	nd: 10 - E nvi(0		LUI	М	Project Nan Project Loc Project Ma Ground Su		BORING LOG NUMBER Broject No: Borehole Diameter: 8" Casing Diameter: 2" Well Materials: PVC Surface Completion: 5145 VP Boring Method: H5A		
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO)N	BORING/WELL COMPLETION	
0 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25		75%	4.1			1005e, fn-c5 send, no star, no odr 11 blows 20 md-c5, white sey = NS, NO 10-22-32 14 dense, fn md sur no star no odr care clay/s.lt 18-35-35 Ind dense Fn-c5 send, tan/s. rare clay/s.lt, no st 20-850 24-25 md dense Fn-md sond y/s.lt, ton e25-1" of fn send 25-5-26 losse is send gre 31 MANON NS-N 50 fr	ton/som and, some day and, ton/som own own own own own own own o		
		_				31- MAKANA NS-N'	U		

BH08

	DEPTH (FEET)	SAMPLE INTERVA L	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	BORING/WELL COMPLETION
25	-50							
26	अ .						29-30' and classe, for sand of sit	
27	20	 					and some day, brown, no stam, no d	
28	<i>3</i> 55 _	†	100%	4.8			30-31 louse, md-15 sund gray-tem, no stom, no odr	
24	34	-					9.07 1 (100 3.10m.) 100 0000	
30	35	X					48-81229 50 Par 4"	
31	36							
32	37						ind lease, for soul m/silt tology tem-soon NS-NO	
33	<i>3</i> 8 _		105%	(6.8			vay dance grey 55 collie at 35	_
34	39 _	1	.00 4	(0.0			35-36-15 gry soul No-NO	-1 -1
35	40 _	X						
36	<u>4</u> 1 _				- ~		30.8442 50 Pm 2"	
37	<i>9</i> 2 _						40-40.5° md done for soul of silt +cley brown ton WS-NO	
38	4 3		40%	3,5			40.5-41 md leve (5 smal grey NS-NO	
34	44		-(U W	2,5			NS-NO /	
40	45						#2 0 <i>6</i> %	1:1
41	4 6				-	• -	50 Per 5" 44-45" al long for soul m/sitteday	
42	47	-					44-45° ml long for soul m/self tology bown - ton, WS-NO	
43	48			1295			645 cs sand w/brown stamps strong oder ~ 4" typavel	
44	49		(00%)	.,~			Siring and to 1 to gave	
45	50	Y					45.5-46 Fa sund Vst+day, grey.	·
46	51	1					45.5-46 his sunt 4 still day, yet. 36 - 50 for 5" mod danse, fin Sand, 5 mg/ NS-NO 33-50 C.4"	'. \\\
47	52						and darse, fin sand, sray	.:\\.:\
48	83	Y	50%	18.4		_	NS-NO 33-50R4" _	
40	×		MOS				VELOSUL E 18	
50	5/5	X						
301		1//						

	Date Samp Drilled By Driller: Logged By	pled: 10-		LU	М	Project Lo Project M Ground S Top of Ca North Coo West Cool	ame: LC Kelly IE cation: anager: Stuart Hyde urface Elevation: sing Elevation: ordinate:	BORING LOG NUMBER BHD 9 Project No. Borehole Diameter: 8 Casing Diameter: 2 Well Materials: PVC Surface Completion: 51/6K Uf Boring Method: HSA		
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION	
5, 7, 6 6, 9,10 39,5% 50/s	0 - 1 - 2 - 3 - 3 - 4 - 5 - 6 - 7 - 8 - 7 - 8 - 7 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 25						Brown. No odor some graver, some graver, some graver, some sand. Brown. No odor No stain. son SAA. No odor to sain. Son WI fines. No odor will fines. No odor	lincs lown me glavel	(, fou +	

	Date Samp Drilled By Driller: Logged By	oled: 11	50 -18		M	Client Hilcorp Project Name. San Jaur 30-6 #31A Project Location: LC C/IV E Project Manager: Stuart Hyde Ground Surface Elevation: Top of Casing Elevation: North Coordinate: West Coordinate: BORING L Project No Project No Project No Project No Borehole Diam Casing Diamet Well Materials Surface Compl Boring Method			eter: er: : etion:
	рертн (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION
50/6	25 _ 26 _ 27 _ 28 _	***	60%	7.5			Blown Mcd-sand W/ Me Clay and glauch No odor/stain	,	\{\a\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
50/6/	30 - 31 - 32 - 33 - 34		100%	363			Moist tan Med-Sa W/ Clay. Mod Oc Slight Stain / or	lor	
56/4/	34 - 35 - 36 - 37 - 38 - 39		100%	202		,	35 37-51 A 35.15 38-38.5 - Gray slight Comented SS U/ Co and Clay (Bam) about	35-35.15 117 - 14515 109.1 C14515 100.1 1455 100.1 1455 100.1 1455 100.1 1455 100.1 1455	
50/5 /	40 -		vo%.	145			Moist tan/blown m W/ clays, Siight of Slight Stain/oxide	ed-Sand Job	
50/4	43 - 44 - 45 - 46 - 47 - 48 - 49 - 50			J3. O			gray immature 35 mcd - grained No olor, Possibly so	tained?	carc-in

Date Samp	H-121	-18	L U Envirod(i		Project Lo Project Ma Ground Su	anager: Stuart Hyde inface Elevation: ing Elevation:	BORING LOG NUMBER Project No. Borehole Diameter: 3 th Well Materials: PV Surface Completion: 5 + 2 T Of Boring Method: H 5 A		
DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTION	Ī	BORING/WELL COMPLETION	
0 - 1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25		hand auger	3.6 (wet)			D5 - Med/fine sand some glavel. We from hydrovac. No a med/coarse of wet from hydrovac Moist Med-Coarse some gravel and come gravel and come gravel and come gravel and come some gravel some gravel some gravel some gravel some gravel and come gravel some gra	ain lay	G(00+	

- Released to Imaging: 3/15/2024 3:31:24 PM

50/_G

50/4

	Date Samp	oled:	I S O	L U	M	Project Lo Project M Ground S	ame: San Jaun 30-6 #31A ocation: anager: Stuart Hyde urface Elevation: sing Elevation:	BORING LOG NUMBER BH/O Project No. Borehole Diameter: Casing Diameter: Well Materials:	
	Driller: Logged By		>	U.	6 . H	West Cool	rdinate:	Surface Comp Boring Methor	
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	N	COMPLETION
40,50/3	25 _ 26 _ 27 _ 28 _ 29 _		100%	49.3			Brown Moist Clayey Med grain. No odor/	stain	1111188
50 14	30 31 32 33 34		100%	3.8			Moist giev Med-fin Clayey sand- Slight ador. Potentiquy	e Stained	cave-in
38, ⁵⁰ /4	35 _ 36 _ 37 _ 38 _ 39 _ 39		100%	6.9			SAA		
	40 - 41 - 42 - 43 - 44 - 45 -								
	46 - 47 - 48 - 49 - 50								

1	Date Samp Drilled By Driller: Logged By	pled: [O-		L U.I	М	Project Ma Ground Su	rface Elevation: ing Elevation: dinate:	BORING LOG NUMBER BIT STATES OF THE PROJECT OF THE	
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	N	BORING/WELL COMPLETION
4,6,14 50/5 29,50/3	17 18 19		100% 100%	4.4 5.7 24.2			tan med-line sand No odor/stain Light tan Med-coan no odor/stain Reddish tan med-l No odor/stain. Oxi	ise Sand	(> fout

	Date Samp Drilled By Driller: Logged By	oled: 10: Envin	- 19	L U	М	Project Lo Project Ma Ground St	ime: San Jaun 30-6 #31 A scation: anager: Stuart blyde urface Elevation: sing Elevation: ordinate:	Project No Borehole Diameter: Casing Diameter: Well Materials: Surface Completion: Boring Method:	
	DEPTH (FEET)	SAMPLE INTERVAL	RECOVERY (%)	FID/PID READING (PPM)	POTENTIO- METRIC SURFACE	GEOLOGIC LOG SYMBOL	GEOLOGIC DESCRIPTIO	9N	BORING/WELL COMPLETION
50/4 45, 50/4	25		90	248			Redish-Brown coasse w/ grave(and cr Ao odor /stair slight no gray Med-fine sa slight odos, Poten w/ clay	nd Highly Shing	1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1
39,50/2	36 _ 37 _ 38 _ 39 _ 40 _ 41		100	298			Roddish-tun Med slight odor, no s w/clay	Sand dain	
	42 43 44 45 46 47 48 49	4	100	78.9			Light tan med-formed of sand w/ some conduction of the sand of the	4 Y	Gave



APPENDIX C

Laboratory Analytical Report

Report to: Stuart Hyde







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: E310119

Job Number: 17051-0002

Received: 10/18/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/19/23

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: 10/19/23

Stuart Hyde PO Box 61529 Houston, TX 77208

Project Name: LC Kelly #1E

Workorder: E310119

Date Received: 10/18/2023 10:01:00AM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/18/2023 10:01:00AM, 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

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

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Hilcorp Energy Co	Project Name:	LC Kelly #1E	Denouted
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/23 17:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
ВН07 @ 30'	E310119-01A	Soil	10/16/23	10/18/23	Glass Jar, 4 oz.
BH07 @ 35'	E310119-02A	Soil	10/16/23	10/18/23	Glass Jar, 4 oz.
BH07 @ 40'	E310119-03A	Soil	10/16/23	10/18/23	Glass Jar, 4 oz.
BH07 @ 45'	E310119-04A	Soil	10/16/23	10/18/23	Glass Jar, 4 oz.
BH08 @ 44-46'	E310119-05A	Soil	10/17/23	10/18/23	Glass Jar, 4 oz.
BH08 @ 48'	E310119-06A	Soil	10/17/23	10/18/23	Glass Jar, 4 oz.



Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM

BH07 @ 30' E310119-01

Analyte	Result	Reporting Limit	Dilut	ion Prepared	Analyzed	Notes
Maryte	Result	Liiiit	Dilui	ion repared	Maryzed	110103
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2342061
Benzene	ND	0.0250	1	10/18/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/18/23	10/18/23	
Toluene	ND	0.0250	1	10/18/23	10/18/23	
o-Xylene	ND	0.0250	1	10/18/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/18/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	10/18/23	10/18/23	
Surrogate: Toluene-d8		97.6 %	70-130	10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2342061
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene		103 %	70-130	10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		91.6 %	70-130	10/18/23	10/18/23	
Surrogate: Toluene-d8		97.6 %	70-130	10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: KM		Batch: 2342060
Diesel Range Organics (C10-C28)	ND	25.0	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/18/23	10/18/23	
Surrogate: n-Nonane		90.4 %	50-200	10/18/23	10/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: IY		Batch: 2342058
Chloride	21.4	20.0	1	10/18/23	10/19/23	



Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM

BH07 @ 35' E310119-02

		E310117-02					
	D. I.	Reporting			D 1		N
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: l	RKS		Batch: 2342061
Benzene	ND	0.0250	1	1	10/18/23	10/18/23	
Ethylbenzene	ND	0.0250	1	1	10/18/23	10/18/23	
Toluene	ND	0.0250	1	1	10/18/23	10/18/23	
o-Xylene	0.0310	0.0250	1	1	10/18/23	10/18/23	
p,m-Xylene	0.140	0.0500	1	1	10/18/23	10/18/23	
Total Xylenes	0.171	0.0250	1	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene	·	109 %	70-130		10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		10/18/23	10/18/23	
Surrogate: Toluene-d8		98.6 %	70-130		10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: 1	RKS		Batch: 2342061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene		109 %	70-130		10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		97.0 %	70-130		10/18/23	10/18/23	
Surrogate: Toluene-d8		98.6 %	70-130		10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: 1	KM		Batch: 2342060
Diesel Range Organics (C10-C28)	61.4	25.0	1	1	10/18/23	10/19/23	_
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/18/23	10/19/23	
Surrogate: n-Nonane		96.5 %	50-200		10/18/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: 1	IY		Batch: 2342058
Chloride	ND	20.0	1	1	10/18/23	10/19/23	



Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM

BH07 @ 40' E310119-03

		E310117-03					
		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: R	KS		Batch: 2342061
Benzene	ND	0.0250	1	1	10/18/23	10/18/23	
Ethylbenzene	0.198	0.0250	1	1	10/18/23	10/18/23	
Toluene	0.0345	0.0250	1	1	10/18/23	10/18/23	
o-Xylene	0.599	0.0250	1	1	10/18/23	10/18/23	
p,m-Xylene	3.12	0.0500	1	1	10/18/23	10/18/23	
Total Xylenes	3.71	0.0250	1	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene		90.1 %	70-130		10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		10/18/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130		10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: R	KS		Batch: 2342061
Gasoline Range Organics (C6-C10)	145	20.0	1	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene		90.1 %	70-130		10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		92.6 %	70-130		10/18/23	10/18/23	
Surrogate: Toluene-d8		108 %	70-130		10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	M		Batch: 2342060
Diesel Range Organics (C10-C28)	49.7	25.0	1	1	10/18/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/18/23	10/19/23	
Surrogate: n-Nonane		101 %	50-200		10/18/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: I	Y		Batch: 2342058
Chloride	ND	20.0	1	1	10/18/23	10/19/23	



Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM

BH07 @ 45' E310119-04

		E310117-04					
	D 1	Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: R	ks		Batch: 2342061
Benzene	ND	0.0250	1	1	10/18/23	10/18/23	
Ethylbenzene	ND	0.0250	1	1	10/18/23	10/18/23	
Toluene	ND	0.0250	1	1	10/18/23	10/18/23	
o-Xylene	0.0250	0.0250	1	1	10/18/23	10/18/23	
p,m-Xylene	0.0945	0.0500	1	1	10/18/23	10/18/23	
Total Xylenes	0.120	0.0250	1	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130		10/18/23	10/18/23	
Surrogate: Toluene-d8		117 %	70-130		10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: R	kKS		Batch: 2342061
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	10/18/23	10/18/23	
Surrogate: Bromofluorobenzene		102 %	70-130		10/18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.9 %	70-130		10/18/23	10/18/23	
Surrogate: Toluene-d8		117 %	70-130		10/18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	ĽM.		Batch: 2342060
Diesel Range Organics (C10-C28)	ND	25.0	1	1	10/18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	1	10/18/23	10/18/23	
Surrogate: n-Nonane		90.1 %	50-200		10/18/23	10/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: Γ	Y		Batch: 2342058
Chloride	ND	20.0	1	1	10/18/23	10/19/23	_



Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM

BH08 @ 44-46'

		E310119-05					
		Reporting					
Analyte	Result	Limit	Dilu	tion Pre	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2342061
Benzene	ND	0.0250	1	10/	18/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/	18/23	10/18/23	
Toluene	ND	0.0250	1	10/	18/23	10/18/23	
o-Xylene	0.0360	0.0250	1	10/	18/23	10/18/23	
p,m-Xylene	0.130	0.0500	1	10/	18/23	10/18/23	
Total Xylenes	0.166	0.0250	1	10/	18/23	10/18/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/.	18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	10/	18/23	10/18/23	
Surrogate: Toluene-d8		98.6 %	70-130	10/	18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2342061
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/	18/23	10/18/23	
Surrogate: Bromofluorobenzene		107 %	70-130	10/.	18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		93.3 %	70-130	10/.	18/23	10/18/23	
Surrogate: Toluene-d8		98.6 %	70-130	10/	18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: KM			Batch: 2342060
Diesel Range Organics (C10-C28)	41.6	25.0	1	10/	18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/	18/23	10/18/23	
Surrogate: n-Nonane		96.4 %	50-200	10/	18/23	10/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: IY			Batch: 2342058

20.0

1

10/18/23

10/19/23

20.9



Chloride

Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM

BH08 @ 48' E310119-06

		E310119-00					
		Reporting					
Analyte	Result	Limit	Dilut	tion Prep	pared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RKS			Batch: 2342061
Benzene	ND	0.0250	1	10/1	18/23	10/18/23	
Ethylbenzene	ND	0.0250	1	10/1	18/23	10/18/23	
Toluene	ND	0.0250	1	10/1	18/23	10/18/23	
o-Xylene	ND	0.0250	1	10/1	18/23	10/18/23	
p,m-Xylene	ND	0.0500	1	10/1	18/23	10/18/23	
Total Xylenes	ND	0.0250	1	10/1	18/23	10/18/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130	10/1	18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	10/1	18/23	10/18/23	
Surrogate: Toluene-d8		94.1 %	70-130	10/1	18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: RKS			Batch: 2342061
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/1	18/23	10/18/23	
Surrogate: Bromofluorobenzene		99.1 %	70-130	10/1	18/23	10/18/23	
Surrogate: 1,2-Dichloroethane-d4		95.0 %	70-130	10/1	18/23	10/18/23	
Surrogate: Toluene-d8		94.1 %	70-130	10/1	18/23	10/18/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: KM			Batch: 2342060
Diesel Range Organics (C10-C28)	ND	25.0	1	10/1	18/23	10/18/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/1	18/23	10/18/23	
Surrogate: n-Nonane	·	93.3 %	50-200	10/1	18/23	10/18/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: IY			Batch: 2342058
Chloride	ND	20.0	1	10/1	18/23	10/19/23	



	-	•	
Hilcorp Energy Co	Project Name:	LC Kelly #1E	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM
	W1.0 0 . C	1 1 EDA 03/0D	

Houston TX, 7/208		Project Manage	r: St	uart Hyde				10/1	9/2023 5:45:16PI					
	V	olatile Organ	ic Compo	unds by EI	PA 82601	В		A	Analyst: RKS					
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit						
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes					
Blank (2342061-BLK1)							Prepared: 10	0/18/23 Analy	zed: 10/18/23					
Benzene	ND	0.0250					1							
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	0.547		0.500		109	70-130								
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130								
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130								
LCS (2342061-BS1)							Prepared: 10	0/18/23 Analy	/zed: 10/18/23					
Benzene	2.54	0.0250	2.50		102	70-130								
Ethylbenzene	2.60	0.0250	2.50		104	70-130								
Toluene	2.49	0.0250	2.50		99.7	70-130								
p-Xylene	2.66	0.0250	2.50		106	70-130								
p,m-Xylene	5.23	0.0500	5.00		105	70-130								
Total Xylenes	7.88	0.0250	7.50		105	70-130								
Surrogate: Bromofluorobenzene	0.506	******	0.500		101	70-130								
Surrogate: 1,2-Dichloroethane-d4	0.466		0.500		93.2	70-130								
Surrogate: Toluene-d8	0.485		0.500		97.0	70-130								
Matrix Spike (2342061-MS1)				Source:	E310119-0	04	Prepared: 10	0/18/23 Analy	zed: 10/18/23					
Benzene	2.55	0.0250	2.50	ND	102	48-131	-							
Ethylbenzene	2.60	0.0250	2.50	ND	104	45-135								
Toluene	2.30	0.0250	2.50	ND	92.1	48-130								
o-Xylene	2.66	0.0250	2.50	0.0250	105	43-135								
p,m-Xylene	5.43	0.0500	5.00	0.0945	107	43-135								
Total Xylenes	8.09	0.0250	7.50	0.120	106	43-135								
Surrogate: Bromofluorobenzene	0.530		0.500		106	70-130								
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130								
Surrogate: Toluene-d8	0.457		0.500		91.3	70-130								
Matrix Spike Dup (2342061-MSD1)				Source:	E310119-0	04	Prepared: 10	0/18/23 Analy	zed: 10/18/23					
Benzene	2.59	0.0250	2.50	ND	104	48-131	1.69	23						
Ethylbenzene	2.64	0.0250	2.50	ND	106	45-135	1.55	27						
Toluene	2.77	0.0250	2.50	ND	111	48-130	18.5	24						
o-Xylene	2.67	0.0250	2.50	0.0250	106	43-135	0.470	27						
p,m-Xylene	5.31	0.0500	5.00	0.0945	104	43-135	2.25	27						
Total Xylenes	7.98	0.0250	7.50	0.120	105	43-135	1.35	27						
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130								
Surrogate: 1,2-Dichloroethane-d4	0.480		0.500		95.9	70-130								
			0.500		105	50.15 °								



0.500

0.535

70-130

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

QC Summary Data

LC Kelly #1E Hilcorp Energy Co Project Name: Reported:

PO Box 61529		Project Number:	17	051-0002							
Houston TX, 77208		Project Manager:	Stı	uart Hyde				10/19/2023 5:45			
	Nor	nhalogenated C	Organics l	by EPA 80	15D - GI	RO			Analyst: RKS		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2342061-BLK1)							Prepared: 1	0/18/23 Ana	lyzed: 10/18/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.547		0.500		109	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.6	70-130					
Surrogate: Toluene-d8	0.480		0.500		96.0	70-130					
LCS (2342061-BS2)							Prepared: 10	0/18/23 Ana	lyzed: 10/18/23		
Gasoline Range Organics (C6-C10)	57.8	20.0	50.0		116	70-130					
Surrogate: Bromofluorobenzene	0.554		0.500		111	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.494		0.500		98.7	70-130					
Surrogate: Toluene-d8	0.479		0.500		95.7	70-130					
Matrix Spike (2342061-MS2)				Source:	E310119-0	04	Prepared: 10	0/18/23 Ana	lyzed: 10/18/23		
Gasoline Range Organics (C6-C10)	65.0	20.0	50.0	ND	130	70-130					
Surrogate: Bromofluorobenzene	0.470		0.500		93.9	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.470		0.500		94.0	70-130					
Surrogate: Toluene-d8	0.497		0.500		99.4	70-130					
Matrix Spike Dup (2342061-MSD2)				Source:	E310119-0	04	Prepared: 1	0/18/23 Ana	lyzed: 10/18/23		
Gasoline Range Organics (C6-C10)	54.8	20.0	50.0	ND	110	70-130	17.1	20			

0.500

0.500

0.500

0.508

0.460

0.502

102

92.0

100

70-130

70-130

70-130



Hilcorp Energy Co	Project Name:	LC Kelly #1E	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/2023 5:45:16PM

Houston TX, 77208		Project Manage	r: Stı	ıart Hyde					10/19/2023 5:45:16PM
	Nonhal	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342060-BLK1)							Prepared: 1	0/18/23 A	analyzed: 10/18/23
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	49.5		50.0		99.1	50-200			
LCS (2342060-BS1)							Prepared: 1	0/18/23 A	analyzed: 10/18/23
Diesel Range Organics (C10-C28)	269	25.0	250		108	38-132			
urrogate: n-Nonane	46.6		50.0		93.2	50-200			
Matrix Spike (2342060-MS1)				Source:	E310119-0	03	Prepared: 1	0/18/23 A	analyzed: 10/19/23
Diesel Range Organics (C10-C28)	327	25.0	250	49.7	111	38-132			
urrogate: n-Nonane	50.5		50.0		101	50-200			
Matrix Spike Dup (2342060-MSD1)				Source:	E310119-	03	Prepared: 1	0/18/23 A	analyzed: 10/19/23
Diesel Range Organics (C10-C28)	341	25.0	250	49.7	117	38-132	4.17	20	
urrogate: n-Nonane	51.4		50.0		103	50-200			



Chloride

QC Summary Data

Hilcorp Energy Co	Project Name:		C Kelly #1E					Reported:	
PO Box 61529 Houston TX, 77208	Project Number: Project Manager:	Project Number: 17051-0002 Project Manager: Stuart Hyde						10/19/2023 5:45:16PM	
		Anions	by EPA 3	00.0/9056	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342058-BLK1)							Prepared: 1	0/18/23	Analyzed: 10/18/23
Chloride	ND	20.0							
LCS (2342058-BS1)							Prepared: 1	0/18/23	Analyzed: 10/18/23
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2342058-MS1)				Source:	E310118-0)4	Prepared: 1	0/18/23	Analyzed: 10/18/23
Chloride	263	20.0	250	ND	105	80-120			
Matrix Spike Dup (2342058-MSD1)				Source:	E310118-0)4	Prepared: 1	0/18/23	Analyzed: 10/18/23

250

20.0

ND

106

80-120

0.939

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

Hilcorp Energy Co	Project Name:	LC Kelly #1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/19/23 17:45

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Chain of Custody

Pag	e of	Received by OCD.
State		d b
ய	X	y o
L		G
ogra	m	
VA	RCRA	1
Y	or N	1/2023
arks		12/11/2023 9:45:35 AM
		AM

ſ	Clie	nt Inform	Invoice Informa	Invoice Information				1:	h I I	e On	·hv		TAT								-				
Client:		ilcorp Ene		nanv	\dashv [Company: Hilcorp			l ab	14/04		10 0.		Num	- A-F		1			Tead		41	Stat		
	lame: LCK		EIRY COM	рану		Address: 1111 Travis St			- 15	#0W 012	110)		151-		7	H	20	3D	Sta		NM	co u	TIX	
	Nanager: St		e		\neg	City, State, Zip: Houston			- 	<u> </u>	71-	1		31-	<u> </u>	\		ــــــ		⊥	J			لبسبا	بيبا
Address:						Phone: 713-757-5247	.,		_	Γ	lysis	and	Met	hod					FD	A Progr					
City, Stat					_	Email: mkillough@hilcorp	n.com				Г						<u> </u>	T^{T}	T	T	SDV		CWA		RA
Phone:	970-903-1	1607					D.C.C.		_	1							İ		1	•		" †		+**	-
Email:	shyde@en	solum.co	m							15	ا يو ا								1	l	Comr	olianci	a I y	or	A
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				Sam	ple Inforn	nation] ĝ	20 b	, 802	826	30	- NA	05 - 1	Met.					-	***************************************	*****	
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	i i	Filter	Lab Number	DRO/ORO by 8015	GRO/DRO by	втех by 8021	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals						Remarks	.	
1300	10/16/23	soil	1402	BH	076	30'			1	X	×	X		X								-		Monte	
1390		1		BH	070	35`			2	入	χ.	X		X											
1340					07C				3	٧	X	X		<											
1430	+				107C				4	X	¥	L		X											
1540	10/17					_44-46'			5	X	٦.	X		X											
1690	10/17		V	BH	108 C	.48'			6	X	X	y		メ											
		1																							
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	al Instruction			4T -				A	rea	2								±	•	•				 	
I, (field sam Sampled by:	eler) attest to the	e validity and	authenticit	of this sampl	e. I am awar 60 1/1	e that tampering with or intentionally mis	islabeling the	samı	ple location,	, date o	r time	of coll	ection	is cons	iderec	fraud	and n	nay be	ground	ds for l	egal act	on.			
Relinquish	ed by: (Signature	e)	Date	18/23	Time [v;o	Received by: (senture)	ra /	Date (18:23	Time /O.	0/	,			sample		ceived (ice the day it less than (
Relinquish	Relinquished by: (Signature) Date Time Received by: (Signature)					C	Date		Time	-							ce:	Li (Y)		e Onl	y				
Relinquished by: (Signature) Date Time Received to				Received by: (Signature)	C	Date		Time																	
Relinquish	ed by: (Signatur	e)	Date		Time	Received by: (Signature)	Ĉ	Date		Time					T1 T2 T3 T3 AVG Temp °C 4						-				
Sample Mat	rix: S - Soil, Sd - Se	olid, Sg - Sluc	dge, A - Aque	ous, O - Othe	r			Conta	ainer Type	e: g - g	glass,	p - pc	l oly/pl							_					
Note: Sam applicable	ples are discard	ed 14 days amples rece	after result	s are reporte	ed unless oth	her arrangements are made. Hazardo C. The liability of the laboratory is lim	ous sample:	s will	be returne	ed to cl	ient o	r disp								for th	e analy	sis of	the abov	e sampl	les is





Printed: 10/18/2023 10:11:16AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Hilcorp Energy Co	Date Received:	10/18/23 10	p:01		Work Order ID:	E310119
Phone:	-	Date Logged In:	10/18/23 10	0:04		Logged In By:	Caitlin Mars
Email:	shyde@ensolum.com	Due Date:	10/19/23 17	7:00 (1 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location mat	ch the COC	Yes				
3. Were s	amples dropped off by client or carrier?		Yes	Carrier: <u>F</u>	Reese		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	ted analyses?	Yes		<u>ceese</u>		
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion					Comments	s/Resolution
	<u> [urn Around Time (TAT)</u>				A 44:4: 1	T	C 1:
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes			instructions	from client- 10/19
Sample C					in the AM.		
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	received w/i 15	Yes				
		temperature. 1	<u>~</u>				
	Container queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers?	ı	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lat	· · · · · · · · · · · · · · · · · · ·	ers conceicu:	103				
•	field sample labels filled out with the minimum info	rmation:					
	ample ID?	ination.	Yes				
	ate/Time Collected?		Yes				
C	ollectors name?		Yes				
Sample F	<u>Preservation</u>						
21. Does	the COC or field labels indicate the samples were pr	eserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved m	etals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multiphas	se?	No				
27. If yes	, does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborator	v?	No				
	subcontract laboratory specified by the client and if	•		Subcontract Lab	o: NA		
	nstruction						

Report to: Stuart Hyde







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: E310177

Job Number: 17051-0002

Received: 10/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/20/23

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: 10/20/23

Stuart Hyde PO Box 61529 Houston, TX 77208

Project Name: LC Kelly 1E

Workorder: E310177

Date Received: 10/19/2023 11:08:00AM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/19/2023 11:08:00AM, 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

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Hilcorp Energy Co	Project Name:	LC Kelly 1E	Donautodi
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/23 14:19

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH09 @ 25'	E310177-01A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH09 @ 30'	E310177-02A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH09 @ 35'	E310177-03A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH09 @ 40'	E310177-04A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH09 @ 45'	E310177-05A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/2023 2:19:54PM

BH09 @ 25' E310177-01

		E3101//-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
· · · · · · · · · · · · · · · · · · ·	resur		<u> </u>	Tropulou	111111,200	11000
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.3 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342090
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/19/23	
Surrogate: n-Nonane		96.7 %	50-200	10/19/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2342077
Chloride	55.2	20.0	1	10/19/23	10/20/23	



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/2023 2:19:54PM

BH09 @ 30' E310177-02

		E3101//-02				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Tillalyte	Result	Liiiit	Dilution	Trepared	Zinaryzed	rotes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/19/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/19/23	
Toluene	ND	0.0250	1	10/19/23	10/19/23	
o-Xylene	ND	0.0250	1	10/19/23	10/19/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/19/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/19/23	
Surrogate: 4-Bromochlorobenzene-PID		93.9 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/19/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.4 %	70-130	10/19/23	10/19/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342090
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/19/23	
Surrogate: n-Nonane		95.1 %	50-200	10/19/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2342077
Chloride	44.0	20.0	1	10/19/23	10/19/23	



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/2023 2:19:54PM

BH09 @ 35' E310177-03

		E3101//-03				
Acates	Result	Reporting Limit	Dilution	Doggan	A l	Notes
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	0.0537	0.0250	1	10/19/23	10/20/23	
Toluene	0.0702	0.0250	1	10/19/23	10/20/23	
o-Xylene	0.0999	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	0.696	0.0500	1	10/19/23	10/20/23	
Total Xylenes	0.796	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		99.8 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	Analyst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342090
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/19/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/19/23	
Surrogate: n-Nonane		98.0 %	50-200	10/19/23	10/19/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2342077
Chloride	27.7	20.0	1	10/19/23	10/20/23	



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/2023 2:19:54PM

BH09 @ 40' E310177-04

		E3101//-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Analyte	Result	Emit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Ana	lyst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	0.0435	0.0250	1	10/19/23	10/20/23	
Toluene	0.138	0.0250	1	10/19/23	10/20/23	
o-Xylene	0.0981	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	0.492	0.0500	1	10/19/23	10/20/23	
Total Xylenes	0.590	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Ana	Analyst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.6 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Ana	lyst: KM		Batch: 2342090
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		92.1 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Ana	lyst: IY		Batch: 2342077
Chloride	23.6	20.0	1	10/19/23	10/20/23	·



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/2023 2:19:54PM

BH09 @ 45' E310177-05

		E3101//-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Amaryte	Result	Limit	Dilution	Trepared	Maryzed	110103
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		91.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342090
Diesel Range Organics (C10-C28)	ND	25.0	1	10/19/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/19/23	10/20/23	
Surrogate: n-Nonane		91.6 %	50-200	10/19/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: IY		Batch: 2342077
Chloride	24.1	20.0	1	10/19/23	10/20/23	



			<i>y</i> = 0000					
Project Number: 17051-0002								Reported: 10/20/2023 2:19:54PM
			1R					
	volatile Oi			Analyst: RKS				
Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
						Prepared: 1	0/19/23 A	nalyzed: 10/20/23
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0250							
ND	0.0500							
ND	0.0250							
7.60		8.00		95.0	70-130			
						Prepared: 1	0/19/23 A	analyzed: 10/20/23
4.72	0.0250	5.00		94.4	70-130			
4.53	0.0250	5.00		90.5	70-130			
4.71	0.0250	5.00		94.2	70-130			
4.67	0.0250	5.00		93.3	70-130			
9.37	0.0500	10.0		93.7	70-130			
14.0	0.0250	15.0		93.5	70-130			
7.67		8.00		95.9	70-130			
			Source:	E310177-	01	Prepared: 1	0/19/23 A	analyzed: 10/20/23
4.70	0.0250	5.00	ND	93.9	54-133			
4.49	0.0250	5.00	ND	89.8	61-133			
4.68	0.0250	5.00	ND	93.5	61-130			
4.64	0.0250	5.00	ND	92.7	63-131			
9.29	0.0500	10.0	ND	92.9	63-131			
13.9	0.0250	15.0	ND	92.8	63-131			
7.68		8.00		96.0	70-130			
			Source:	E310177-	01	Prepared: 1	0/19/23 A	nalyzed: 10/20/23
	Mg/kg ND ND ND ND ND ND ND 7.60 4.72 4.53 4.71 4.67 9.37 14.0 7.67 4.70 4.49 4.68 4.64 9.29 13.9	Project Number: Project Manager:	Project Number: 17 Project Manager: St Volatile Organics by Result Limit Level mg/kg mg/kg mg/kg ND 0.0250 T.60 8.00 4.72 0.0250 5.00 4.71 0.0250 5.00 4.71 0.0250 5.00 4.71 0.0250 5.00 7.67 8.00 4.70 0.0250 15.0 7.67 8.00 4.70 0.0250 5.00 4.49 0.0250 5.00 4.68 0.0250 5.00 4.68 0.0250 5.00 4.68 0.0250 5.00 4.68 0.0250 5.00 9.29 0.0500 10.0 13.9 0.0250 15.0	Project Number: 17051-0002 Project Manager: Stuart Hyde	Project Number: 17051-0002 Project Manager: Stuart Hyde	Project Number: 17051-0002 Project Manager: Stuart Hyde	Project Number: 17051-0002 Project Manager: Stuart Hyde Stuart Hyde Stuart Hyde Stuart Hyde Stuart Hyd	Project Number: 17051-0002 Project Manager: Stuart Hyde

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

4.77

4.96

4.90

9.85

14.7

5.00

5.00

5.00

5.00

10.0

15.0

ND

ND

ND

ND

ND

ND

99.5

95.4

99.2

97.9

98.5

98.3

54-133

61-133

61-130

63-131

63-131

63-131

70-130

5.80

6.00

5.89

5.45

5.82

5.70

20

20

20

20

20



Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

Hilcorp Energy Co PO Box 61529	Project Name: Project Number:	LC Kelly 1E 17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/2023 2:19:54PM

Houston TX, 77208		Project Manage	r: Stı	ıart Hyde				10	/20/2023 2:19:54PM
	Non	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2342089-BLK1)							Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			
LCS (2342089-BS2)							Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			
Matrix Spike (2342089-MS2)				Source:	E310177-	01	Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			
Matrix Spike Dup (2342089-MSD2)				Source:	E310177-	01	Prepared: 1	0/19/23 Ana	lyzed: 10/20/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130	0.938	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			

Hilcorp Energy Co	Project Name:	LC Kelly 1E	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/2023 2:19:54PM

Houston TX, 77208		Project Manage	r: Stı	ıart Hyde					10/20/2023 2:19:54PI
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342090-BLK1)							Prepared: 1	0/19/23 A	nalyzed: 10/19/23
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	50.6		50.0		101	50-200			
LCS (2342090-BS1)							Prepared: 1	0/19/23 A	nalyzed: 10/19/23
Diesel Range Organics (C10-C28)	253	25.0	250		101	38-132			
urrogate: n-Nonane	53.5		50.0		107	50-200			
Matrix Spike (2342090-MS1)				Source:	E310177-	04	Prepared: 1	0/19/23 A	nalyzed: 10/19/23
Diesel Range Organics (C10-C28)	263	25.0	250	ND	105	38-132			
urrogate: n-Nonane	50.2		50.0		100	50-200			
Matrix Spike Dup (2342090-MSD1)				Source:	E310177-	04	Prepared: 1	0/19/23 A	nalyzed: 10/19/23
Diesel Range Organics (C10-C28)	265	25.0	250	ND	106	38-132	0.508	20	
urrogate: n-Nonane	52.2		50.0		104	50-200			



Matrix Spike Dup (2342077-MSD1)

Chloride

732

QC Summary Data

Hilcorp Energy Co		Project Name:	Le	C Kelly 1E					Reported:
PO Box 61529		Project Number	: 17	7051-0002					
Houston TX, 77208		Project Manager		10/20/2023 2:19:54PM					
		Anions	by EPA 3	300.0/90 5 6 <i>A</i>	4				Analyst: IY
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342077-BLK1)							Prepared: 1	0/19/23 An	nalyzed: 10/20/23
Chloride	ND	20.0							
LCS (2342077-BS1)							Prepared: 1	0/19/23 An	nalyzed: 10/20/23
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2342077-MS1)				Source:	E310127-	01	Prepared: 1	0/19/23 An	nalyzed: 10/20/23
Chloride	688	20.0	250	253	174	80-120			M1

250

20.0

Source: E310127-01

192

80-120

6.32

253

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.



Prepared: 10/19/23 Analyzed: 10/20/23

M1

20

Definitions and Notes

ſ	Hilcorp Energy Co	Project Name:	LC Kelly 1E	
ı	PO Box 61529	Project Number:	17051-0002	Reported:
l	Houston TX, 77208	Project Manager:	Stuart Hyde	10/20/23 14:19

M1 Matrix spike recovery was above acceptance limits. 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

DNR Did not react with the addition of acid or base.

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

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



Chain	of	Custody
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Pag	ec	of <u>l Recei</u>
State O UT	TX	ved by
	n ka sa	OCD.
Progra CWA	m RCRA	: 12/1
Υ	or N	1/2023
emarks		ceived by OCD: 12/11/2023 9:45:35 AM
durd	TAT	5 AM

Client Information					T		Invoice Information			Г		1:	h H	e Or	ılı			TAT State					
Client:	Hillory			_		1-6	ompany: Hiles			1 - 5 1	1404		0.	,	<u>. </u>	ho-		1D 2D 3D Std				I 4	
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	Nanager: (E	-		ty, State, Zip: Houston	1×		153	317			IL IO	<u> </u>	Vu	<u>ے، د</u>	ìX-	ــــ	Ц			
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Phone:	<u>.,</u>				-			حي دن		1.5		İ	1	İ		İ				l	•	3DVA CVA KCKA	
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		<u> </u>		Sam	ple Info	rmatic	on				O by	φ	8021	3260	300	Σ	Ϋ́	/etal				FWSID#	
Time Sampled	Date Sampled	Matrix	No. of Contains				Sample ID	Field	Li	ab nber	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remarks	
1100	10/10/17	501	1-40	7 1	ZH V	96	2 25'		1	ibei	×				0_	-	F	-	H			(1 1 747	
	10/18/23	2011	1 10						├		~		X	<u> </u>		<u> </u>				<u> </u>	 	Stunderd TAT	
1115					<u> </u>	9 (@ 30'		2		٨	×	x								•	* Rush TAT	
1130					BHO	90	@ 30' ! 35'		3		x	×	٨									Standard TAT	
1200					BHO	9	@40'		4		X	~	X									1	
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I, (field samp	oler), attest to the	validity and	authenti	ity of this samp	ole. I am av	vare that	t tampering with or intentionally mislabelin	g the san	nple loc	ation,	date o	r time	of coll	ection	is con	sidere	d fraud	and n	nay be	groun	ds for I	egal action.	
Sampled by:		00050	Tr.	ite	Time	70	Desirable (Constitution)																
Reinpuisne	ed by: Signature			1-19-23		8	Received by: (Signature)	16	lal	23	lime	:08	'					_				st be received on ice the day they are temp above 0 but less than 6 °C on	
Relinquishe	ed by: (Signature	:)	D:	ite	Time		Received by: (Signature)	Date			Time			1		tuptor	want d:	ave				e Only	
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Relinquished by: (Signature) Date Time Received by: (Signature)					Parahad hu (Classitus)	-			Time		_	•		<u>T1 </u>			<u>T2</u>		<u>T3</u>				
Lemiquisne	sa nà: (SiBuggate	=)	۲	ne	l'inte		Received by: (Signature)	Date			Time					M	Tem	,,, o,ς	U	D			
Sample Mat	rix: S - Soil, Sd - So	lid, Sg - Sluc	lge, A - A	ueous, O - Othe	er		L	Con	tainer	Туре	: g - s	glass,	p - pe	oly/pl									
						other a	rrangements are made. Hazardous sa															ne analysis of the above samples is	
applicable (only to those sa	mples rece	ived by t	he laboratory	with this (COC. The	e liability of the laboratory is limited to	the am	ount p	aid for	on th	ne rep	ort.					•		•			



envirotech⁵⁹

Printed: 10/19/2023 11:28:57AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

	AND DESCRIPTION OF THE PROPERTY OF THE PROPERT			1	J 1		
Client:	Hilcorp Energy Co	Date Received:	10/19/23 1	1:08	W	ork Order ID:	E310177
Phone:	-	Date Logged In:	10/19/23 1		Lo	ogged In By:	Caitlin Mars
Email:	shyde@ensolum.com	Due Date:	10/20/23 1	7:00 (1 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location man	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: F	Reese		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	Carrier. <u>r</u>	<u>keese</u>		
	Il samples received within holding time?	•	Yes				
	Note: Analysis, such as pH which should be conducted in					Comments	/Decolution
	i.e, 15 minute hold time, are not included in this disucssion	on.				Comment	s/Resolution
	COC 1 1 TATE TO SELECT THE TOTAL TO SELECT THE TOTAL THE		3.7		 Client remark	cs: Sample	1,3,4,5 Standard
	COC indicate standard TAT, or Expedited TAT?		Yes			_	
Sample C			3 7		TAT. Sample	#2 Kusii I.	AI
	sample cooler received? was cooler received in good condition?		Yes				
•	G		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
•	were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
13. If no	visible ice, record the temperature. Actual sample	temperature: 4°C	<u>2</u>				
	Container						
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?	_	NA				
	on-VOC samples collected in the correct containers		Yes				
	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field Lab							
	field sample labels filled out with the minimum info ample ID?	ormation:	Yes				
	ate/Time Collected?		Yes				
	ollectors name?		Yes				
Sample F	<u>reservation</u>						
21. Does	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does	the sample have more than one phase, i.e., multipha	se?	No				
27. If yes	does the COC specify which phase(s) is to be analy	zed?	NA				
Subcontr	act Laboratory						
	amples required to get sent to a subcontract laborato	rv?	No				
	subcontract laboratory specified by the client and in	•		Subcontract Lab	b: na		
Client Ir	struction						
<u>Chent II</u>	istruction .						

Received by OCD: 12/11/2023 9:45:35 AM

													911								
Client Information						Invoice Information			Lab Use Only							TAT				Sta	
Client: Hillory Company: Hillory							71	Lat	B WO# Job Nur 3 1077 17051					per	1	1D	2D 3	D Std		NM CO U	T TX
Project Name: Street Hyde Project Manager: L KC((, 1)						Address: 111 Travis St				7		110	<u>sl-</u>	UUL	1	\mathbf{x}		$\bot X$		X	
Address:		1200	7 15	ty, State, Zip: Houston one: 713-757-52	12				A	Analysis and Method						FRA Date					
City, State, Zip: Email: wo killough Child								- 10	-			АПа	riysis	ano	iviet	noa			SDV	EPA Prog	RCRA
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				Sam	ple Information	on Self-Residence Self-Residence			Š Ž	00	805	8260	300	-NM	T-50	Meta					
Time Sampled	Date Sampled	Matrix	No. of Containers			Sample ID	Field	Lab Number	DRO/ORO	GRO/DRO by	BTEX by 802:	VOC by 8260	Chloride 300.0	BGDOC - NM	TCEQ 1005 - TX	RCRA 8 Metals				Remark	cs
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1130					BH09 @ 35'			3	x	×	1		X						Standerd TA		
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	Relinquished by: (Signature) Date Time				Received by: (Signature)	Date		Time					Received on ice: (Y)/ N			ly					
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Relinquish	Relinquished by: (Signature) Date Time		Time	Received by: (Signature)	Date		Time					AVG Temp °C 4.0									
	Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other					Con	ainer Typ	pe: g -	glass,	p - p	oly/p	astic,	ag -	ambe	er glas	55, V - V	OA				
note: Sam	only to those sa	ed 14 days moles rece	atter result	s are report	ed unless other a	rrangements are made. Hazardous sam	ples wi	be return	ned to c	lient o	or disp	osed	of at th	ne clie	nt ex	pense	. The rep	port for t	he ana	lysis of the abo	ve samples is

0

envirotech Page 68 of 94

Report to: Stuart Hyde







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

Analytical Report

Hilcorp Energy Co

Project Name: LC Kelly 1E

Work Order: E310181

Job Number: 17051-0002

Received: 10/19/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 10/26/23

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: 10/26/23

Stuart Hyde PO Box 61529 Houston, TX 77208

Project Name: LC Kelly 1E

Workorder: E310181

Date Received: 10/19/2023 4:15:00PM

Stuart Hyde,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 10/19/2023 4:15:00PM, 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

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

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labadmin@envirotech-inc.com

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Southern New Mexico Area

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Michelle Golzales

Client Representative
Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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Sample Summary

Hilcorp Energy Co	Project Name:	LC Kelly 1E	Reported:
PO Box 61529	Project Number:	17051-0002	Reporteu:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/26/23 14:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 @ 5'	E310181-01A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH10 @ 10'	E310181-02A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH10 @ 25'	E310181-03A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH10 @ 35'	E310181-04A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH11 @ 25'	E310181-05A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH11 @ 30'	E310181-06A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH11 @ 40'	E310181-07A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.
BH11 @ 45'	E310181-08A	Soil	10/18/23	10/19/23	Glass Jar, 4 oz.



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Houston TX, 77208	Project Manager:	Stuart Hyde	10/26/2023 2:15:36PM

BH10 @ 5' E310181-01

		E310181-01				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	rst: RKS	<u>-</u>	Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		96.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	rst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/20/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/20/23	
Surrogate: n-Nonane		106 %	50-200	10/20/23	10/20/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	rst: RAS		Batch: 2343051
Chloride	ND	20.0	1	10/24/23	10/25/23	



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/26/2023 2:15:36PM

BH10 @ 10' E310181-02

	1510101 02				
Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2342089
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
ND	0.0500	1	10/19/23	10/20/23	
ND	0.0250	1	10/19/23	10/20/23	
	96.4 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Analy	yst: RKS		Batch: 2342089
ND	20.0	1	10/19/23	10/20/23	
	87.4 %	70-130	10/19/23	10/20/23	
mg/kg	mg/kg	Anal	yst: KM		Batch: 2342115
ND	25.0	1	10/20/23	10/21/23	
ND	50.0	1	10/20/23	10/21/23	
	107 %	50-200	10/20/23	10/21/23	
mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343051
ND	20.0	1	10/24/23	10/25/23	
	mg/kg ND ND ND ND ND ND ND ND ND ND Mg/kg ND mg/kg	Result Reporting Limit mg/kg mg/kg ND 0.0250 ND 0.0250 ND 0.0250 ND 0.0500 ND 0.0250 ND 0.0250 MD 0.0250 MD 20.0250 87.4 % mg/kg MD 25.0 ND 50.0 107 % mg/kg mg/kg mg/kg	Reporting Result Limit Dilution mg/kg mg/kg Anal ND 0.0250 1 MD 0.0250 1 MD 20.0250 1 ND 20.0 1 87.4 % 70-130 mg/kg mg/kg Anal ND 25.0 1 ND 50.0 1 107 % 50-200 mg/kg Mg/kg Anal	Reporting Result Limit Dilution Prepared mg/kg Manalyst: RKS ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0500 1 10/19/23 ND 0.0250 1 10/19/23 ND 0.0250 1 10/19/23 mg/kg Mg/kg Analyst: RKS ND 20.0 1 10/19/23 mg/kg Mg/kg Analyst: KM ND 25.0 1 10/20/23 ND 50.0 1 10/20/23 ND 50.0 1 10/20/23 Mg/kg Mg/kg Analyst: RAS	Reporting Result Limit Dilution Prepared Analyzed mg/kg mg/kg Analyst: RKS ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0500 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 ND 0.0250 1 10/19/23 10/20/23 mg/kg mg/kg Analyst: RKS ND 20.0 1 10/19/23 10/20/23 mg/kg mg/kg Analyst: KM ND 25.0 1 10/20/23 10/21/23 ND 25.0 1 10/20/23 10/21/23 ND 50.0 1 10/20/23 10/21/23 ND 50.0 1 10/20/23 10/21/23 Mg/kg mg/kg Analyst: RAS <



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PO Box 61529	Project Number:	17051-0002	Reported:
Houston TX, 77208	Project Manager:	Stuart Hyde	10/26/2023 2:15:36PM

BH10 @ 25' E310181-03

		E310101-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		105 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343051
Chloride	ND	20.0	1	10/24/23	10/25/23	



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
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Houston TX, 77208	Project Manager:	Stuart Hyde	10/26/2023 2:15:36PM

BH10 @ 35' E310181-04

		E510101-04				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.8 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.1 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		108 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343051
Chloride	ND	20.0	1	10/24/23	10/25/23	



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BH11 @ 25' E310181-05

		E310101-03				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		97.1 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analy	vst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		88.9 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analy	st: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	25.4	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		104 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analy	vst: RAS		Batch: 2343051
Chloride	ND	20.0	1	10/24/23	10/25/23	



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BH11 @ 30' E310181-06

		E310181-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Allaryte	Result	Lillit	Dilution	Trepared	Allalyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.5 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.0 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		110 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343051
Chloride	ND	20.0	1	10/24/23	10/25/23	



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
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BH11 @ 40' E310181-07

		E310101-07				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
				•	,	
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		90.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		108 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343051
Chloride	ND	20.0	1	10/24/23	10/25/23	



Hilcorp Energy Co	Project Name:	LC Kelly 1E	
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BH11 @ 45' E310181-08

		E510101-00				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Benzene	ND	0.0250	1	10/19/23	10/20/23	
Ethylbenzene	ND	0.0250	1	10/19/23	10/20/23	
Toluene	ND	0.0250	1	10/19/23	10/20/23	
o-Xylene	ND	0.0250	1	10/19/23	10/20/23	
p,m-Xylene	ND	0.0500	1	10/19/23	10/20/23	
Total Xylenes	ND	0.0250	1	10/19/23	10/20/23	
Surrogate: 4-Bromochlorobenzene-PID		95.2 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Anal	yst: RKS		Batch: 2342089
Gasoline Range Organics (C6-C10)	ND	20.0	1	10/19/23	10/20/23	
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.4 %	70-130	10/19/23	10/20/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Anal	yst: KM		Batch: 2342115
Diesel Range Organics (C10-C28)	ND	25.0	1	10/20/23	10/21/23	
Oil Range Organics (C28-C36)	ND	50.0	1	10/20/23	10/21/23	
Surrogate: n-Nonane		100 %	50-200	10/20/23	10/21/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Anal	yst: RAS		Batch: 2343051
Chloride	ND	20.0	1	10/24/23	10/25/23	



		QC Si	umma	ny Dat	а				
Hilcorp Energy Co PO Box 61529 Houston TX, 77208		Project Name: Project Number: Project Manager:	17	C Kelly 1E 7051-0002					Reported: 10/26/2023 2:15:36PM
Houston 1A, //208		Project Manager:	31	uart Hyde					10/20/2023 2.13.30FN
		Volatile O	rganics b	y EPA 802	21B				Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342089-BLK1)							Prepared: 1	0/19/23 A	Analyzed: 10/20/23
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	7.60		8.00		95.0	70-130			
LCS (2342089-BS1)							Prepared: 1	0/19/23 A	Analyzed: 10/20/23
Benzene	4.72	0.0250	5.00		94.4	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.5	70-130			
Toluene	4.71	0.0250	5.00		94.2	70-130			
o-Xylene	4.67	0.0250	5.00		93.3	70-130			
p,m-Xylene	9.37	0.0500	10.0		93.7	70-130			
Total Xylenes	14.0	0.0250	15.0		93.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.67		8.00		95.9	70-130			
Matrix Spike (2342089-MS1)				Source:	E310177-	01	Prepared: 1	0/19/23 A	Analyzed: 10/20/23
Benzene	4.70	0.0250	5.00	ND	93.9	54-133			
Ethylbenzene	4.49	0.0250	5.00	ND	89.8	61-133			
Toluene	4.68	0.0250	5.00	ND	93.5	61-130			
o-Xylene	4.64	0.0250	5.00	ND	92.7	63-131			
p,m-Xylene	9.29	0.0500	10.0	ND	92.9	63-131			
Total Xylenes	13.9	0.0250	15.0	ND	92.8	63-131			
Surrogate: 4-Bromochlorobenzene-PID	7.68		8.00		96.0	70-130			
Matrix Spike Dup (2342089-MSD1)				Source:	E310177-	01	Prepared: 1	0/19/23 A	Analyzed: 10/20/23
Benzene	4.98	0.0250	5.00	ND	99.5	54-133	5.80	20	
Ethylbenzene	4.77	0.0250	5.00	ND	95.4	61-133	6.00	20	
T-1	4.06	0.0250	5.00	ND	00.2	61 120	5.90	20	

ND

ND

ND

ND

5.00

5.00

10.0

15.0

0.0250

0.0250

0.0500

0.0250

99.2

97.9

98.5

98.3

95.9

61-130

63-131

63-131

63-131

70-130

5.89

5.45

5.82

5.70

20

20

20

20

4.96

4.90

9.85

14.7



Toluene

o-Xylene

p,m-Xylene Total Xylenes

Surrogate: 4-Bromochlorobenzene-PID

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Houston TX, 77208	Project Manager:	Stuart Hyde	10/26/2023 2:15:36PM

Houston TX, 77208		Project Manage	r: Stu	art Hyde				10	0/26/2023 2:15:36P
	Non	halogenated	Organics l	oy EPA 80	15D - GI	RO			Analyst: RKS
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits	RPD %	RPD Limit %	Notes
Blank (2342089-BLK1)							Prepared: 10	0/19/23 Ana	alyzed: 10/20/23
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.6	70-130			
LCS (2342089-BS2)							Prepared: 10	0/19/23 Ana	alyzed: 10/20/23
Gasoline Range Organics (C6-C10)	46.4	20.0	50.0		92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.7	70-130			
Matrix Spike (2342089-MS2)				Source:	E310177-0	01	Prepared: 10	0/19/23 Ana	alyzed: 10/20/23
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0	ND	90.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		8.00		91.6	70-130			
Matrix Spike Dup (2342089-MSD2)				Source:	E310177-0	01	Prepared: 10	0/19/23 Ana	alyzed: 10/20/23
Gasoline Range Organics (C6-C10)	44.9	20.0	50.0	ND	89.7	70-130	0.938	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	70-130			



Hilcorp Energy Co	Project Name:	LC Kelly 1E	Reported:
PO Box 61529	Project Number:	17051-0002	
Houston TX, 77208	Project Manager:	Stuart Hyde	10/26/2023 2:15:36PM

Houston TX, 77208		Project Manage	r: Sti	ıart Hyde					10/26/2023 2:15:36PI
	Nonha	logenated Or	ganics by	EPA 8015I) - DRO	/ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2342115-BLK1)							Prepared: 1	0/20/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	53.0		50.0		106	50-200			
LCS (2342115-BS1)							Prepared: 1	0/20/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	276	25.0	250		110	38-132			
Surrogate: n-Nonane	55.2		50.0		110	50-200			
Matrix Spike (2342115-MS1)				Source:	E310181-	06	Prepared: 1	0/20/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	286	25.0	250	ND	115	38-132			
Surrogate: n-Nonane	56.4		50.0		113	50-200			
Matrix Spike Dup (2342115-MSD1)				Source:	E310181-	06	Prepared: 1	0/20/23 A	nalyzed: 10/20/23
Diesel Range Organics (C10-C28)	275	25.0	250	ND	110	38-132	4.17	20	
Gurrogate: n-Nonane	53.6		50.0		107	50-200			



Hilcorp Energy Co		Project Name:	L	C Kelly 1E					Reported:
PO Box 61529		Project Number:		7051-0002					10/26/2022 2 15 26PM
Houston TX, 77208		Project Manager:	St	uart Hyde					10/26/2023 2:15:36PM
		Anions	by EPA 3	800.0/9056 <i>A</i>	A				Analyst: RAS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2343051-BLK1)							Prepared:	10/24/23	Analyzed: 10/25/23
Chloride	ND	20.0							
LCS (2343051-BS1)							Prepared:	10/24/23	Analyzed: 10/25/23
Chloride	248	20.0	250		99.1	90-110			
Matrix Spike (2343051-MS1)				Source:	E310181-0)1	Prepared:	10/24/23	Analyzed: 10/25/23
Chloride	247	20.0	250	ND	98.9	80-120			
Matrix Spike Dup (2343051-MSD1)				Source:	E310181-0)1	Prepared:	10/24/23	Analyzed: 10/25/23
Chloride	247	20.0	250	ND	98.8	80-120	0.173	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

Hilcorp Energy Co	Project Name: LC Kelly 1E	
PO Box 61529	Project Number: 17051-0002	Reported:
Houston TX, 77208	Project Manager: Stuart Hyde	10/26/23 14:15

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

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

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



Project Information

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of	1	by
U; _		OCD:
gran SDW	_	12
SDW	<u>/A</u>	11
RCR	A	/2023
		9:4
X		9:45:35
	_	3

Chain of Custody

Client: HILCOCP Bill To Lab Use Only TAT **EPA Pro** Attention: Mitch Killough Project: LC Kelly 1E Job Number Lab WO# 31D 2D 3D Standard **CWA** Project Manager: Stuart Hyde 117051-0002 Address: City, State, Zip Houston, TX Analysis and Method Phone: 7(3-757-5247 City, State, Zip 970-903-1607 Email: M Killough @hillofp.com Phone: DRO/ORO by 8015 State Shyde @ ensolum. com NM CO UT AZ Metals 6010 /OC by 8260 Report due by: Standard Lab No. of Date Sampled Sample ID Sampled Containers Remarks Number ' BH100 Soil 13:00|10-19 13:30/10-19 Additional Instructions: f), (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample (ocation, samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days date or time of collection is considered fraud and may be grounds for legal action. Relinquished by: (Signature) Date Relinquished by: (Signature) Received by: (Signature) Date Date Relinquished by: (Signature) Received by: (Signature) Time AVG Temp Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type g - glass/ p - poly/plastic, ag - amber glass, v - VOA Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



@ envirotech

Printed: 10/19/2023 4:35:26PM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Hilcorp Energy Co	Date Received:	10/19/23 16	:15		Work Order ID:	E310181
Phone:	-	Date Logged In:	10/19/23 16	:24		Logged In By:	Caitlin Mars
Email:	shyde@ensolum.com	Due Date:	10/26/23 17	:00 (5 day TAT)			
Chain of Custody (COC) 1. Does the sample ID match the COC? Yes							
	e number of samples per sampling site location ma	tch the COC					
	imples dropped off by client or carrier?	ten the coc	Yes Yes	a : .	1.771		
	COC complete, i.e., signatures, dates/times, reque	atad analysas?	Yes	Carrier: A	Al Thompson		
	I samples received within holding time?	sied alialyses:	Yes				
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	168	1		Comment	s/Resolution
	urn Around Time (TAT)						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C 7. Was a s	ooler ample cooler received?		Yes				
8. If yes, v	vas cooler received in good condition?		Yes				
9. Was the	sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling	e received w/i 15	Yes				
13. If no v	risible ice, record the temperature. Actual sample	temperature: 4°C	<u> </u>				
Sample C							
	ueous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
16. Is the	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 no	on-VOC samples collected in the correct containers	?	Yes				
19. Is the a	ppropriate volume/weight or number of sample contain	ners collected?	Yes				
	e <u>l</u> Teld sample labels filled out with the minimum info Imple ID?	ormation:	Yes				
	ate/Time Collected?		Yes				
Co	ollectors name?		Yes				
Sample P	<u>reservation</u>						
21. Does t	he COC or field labels indicate the samples were p	reserved?	No				
22. Are sa	mple(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
Multipha	se Sample Matrix						
26. Does t	he sample have more than one phase, i.e., multipha	se?	No				
	does the COC specify which phase(s) is to be analy		NA				
	act Laboratory mples required to get sent to a subcontract laborato		No				
	subcontract laboratory specified by the client and i	•		Subcontract Lab	3.1.4		
	• • •	i so wilo:	INA S	subcontract Lac): NA		
Client In	<u>struction</u>						

Date

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

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

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

QUESTIONS

Action 293036

QUESTIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	293036
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2308124076
Incident Name	NAPP2308124076 L C KELLY 1E SVE @ 30-045-25349
Incident Type	Release Other
Incident Status	Remediation Plan Received
Incident Well	[30-045-25349] L C KELLY #001E

Location of Release Source	
Please answer all the questions in this group.	
Site Name	L C KELLY 1E SVE
Date Release Discovered 03/08/2023	
Surface Owner Federal	

Incident Details		
Please answer all the questions in this group.		
Incident Type	Release Other	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release		
Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.		
Crude Oil Released (bbls) Details	Not answered.	
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 10 BBL Recovered: 0 BBL Lost: 10 BBL.	
Is the concentration of chloride in the produced water >10,000 mg/l	Yes	
Condensate Released (bbls) Details	Cause: Equipment Failure Valve Condensate Released: 35 BBL Recovered: 0 BBL Lost: 35 BBL.	
Natural Gas Vented (Mcf) Details	Not answered.	
Natural Gas Flared (Mcf) Details	Not answered.	
Other Released Details	Not answered.	
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	This release consisted of condensate (35.07 bbls) and produced water (10.02 bbls) fluids.	

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

QUESTIONS, Page 2

Action 293036

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Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	293036
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

Initial Response		
The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.		
The source of the release has been stopped	True	
The impacted area has been secured to protect human health and the environment	True	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True	
All free liquids and recoverable materials have been removed and managed appropriately	False	
If all the actions described above have not been undertaken, explain why	The secondary containment berm prevented lateral movement of the fluids. However, the fluids had soaked into the ground surface underlying the bermed area and migrated vertically into the soil profile.	

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

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

Name: Stuart Hyde
Title: Senior Geologist
Email: shyde@ensolum.com
Date: 12/11/2023

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District III 1000 Rio Brazos Rd., Aztec, NM 87410

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

QUESTIONS, Page 3

Action 293036

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	293036
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release ar	nd the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between ½ and 1 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Between ½ and 1 (mi.)	
A wetland	Between 1000 (ft.) and ½ (mi.)	
A subsurface mine	Greater than 5 (mi.)	
An (non-karst) unstable area	Greater than 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	None	
A 100-year floodplain	Between ½ and 1 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be provided	d to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamina	ation associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in	milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	56.3
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	6740
GRO+DRO (EPA SW-846 Method 8015M)	6740
BTEX (EPA SW-846 Method 8021B or 8260B)	673
Benzene (EPA SW-846 Method 8021B or 8260B)	12.2
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes comple which includes the anticipated timelines for beginning and completing the remediation.	leted efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	06/11/2024
On what date will (or did) the final sampling or liner inspection occur	12/11/2028
On what date will (or was) the remediation complete(d)	12/11/2028
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	3000
What is the estimated volume (in cubic yards) that will be remediated	1500
These estimated dates and measurements are recognized to be the best guess or calculation a	at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adjusted	I in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

District I

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

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1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462 State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 293036

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	293036
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.				
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:				
Not answered.				
Not answered.				
Yes				
Not answered.				

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

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

I hereby agree and sign off to the above statement

Name: Stuart Hyde
Title: Senior Geologist
Email: shyde@ensolum.com

Date: 12/11/2023

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

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

QUESTIONS, Page 5

Action 293036

QUESTIONS (continued)

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	293036
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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

QUESTIONS, Page 6

Action 293036

QUESTIONS (continued)

Operator:		C	OGRID:	
	HILCORP ENERGY COMPANY		372171	
	1111 Travis Street	Α	Action Number:	
	Houston, TX 77002		293036	
		Α	Action Type:	
			[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
	QUESTIONS			
Sampling Event Information				
	Last sampling notification (C-141N) recorded	{Unavailable.}		
	Remediation Closure Request			
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.			ave been completed.	
	Requesting a remediation closure approval with this submission	No		

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

CONDITIONS

Action 293036

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	293036
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	See Conditions of Approval letter within report.	3/15/2024