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

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

Form C-144 Revised April 3, 2017

For temporary pits, below-grade tanks, and multi-well fluid management pits, submit to the appropriate NMOCD District Office.

For permanent pits submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

# Proposed Alternative Method Permit or Closure Plan Application

☐ Closure of a pit  BGT 1 ☐ Modification to	or proposed alternative method is, below-grade tank, or proposed a pan existing permit/or registrationally submitted for an existing permittion (Form C-144) per individual pine operator of liability should operation	nitted or non-permitted pi t, below-grade tank or alter s result in pollution of surface	rnative request te water, ground water or the
ı. Operator: Hilcorp Energy Company	OGR	ID#: 372	2171
Address: 382 Road 3100 Aztec, NM 87410			
Facility or well name: RIVERINE 1			
API Number: 3004529344	OCD Permit Number:		
U/L or Qtr/Qtr O Section 11 Townshi	p <u>29N</u> Range 13W	County: SAN	N JUAN
Center of Proposed Design: Latitude 36.736976	Longitude	-108.173186	NAD27
Surface Owner: Federal State Private Tribal	rust or Indian Allotment		
□ Pit:       Subsection F, G or J of 19.15.17.11 NMAC         Temporary:       □ Drilling       □ Workover         □ Permanent       □ Emergency       □ Cavitation       □ P&A         □ Lined       □ Unlined       Liner type: Thickness       □         □ String-Reinforced         Liner Seams:       □ Welded       □ Factory       □ Other         3.         ☑ Below-grade tank:       Subsection I of 19.15.17.11 NMA	mil LLDPE HDPE PVO	C Otherbbl Dimensions: L	· · · · · · · · · · · · · · · · · · ·
Volume:bbl Type of fluid:  Tank Construction material: Metal  Secondary containment with leak detection ☑ Visible  idewalls only    Liner type: Thickness mil ☐ HDI	e sidewalls, liner, 6-inch lift and auto	matic overflow shut-off	
4.  Alternative Method: Submittal of an exception request is required. Exceptions	must be submitted to the Santa Fe En	vironmental Bureau office f	for consideration of approval.
5.  Fencing: Subsection D of 19.15.17.11 NMAC (Applies to  ☐ Chain link, six feet in height, two strands of barbed wire institution or church)  ☐ Four foot height, four strands of barbed wire evenly spa  ☐ Alternate. Please specify	e at top (Required if located within 10 ced between one and four feet		idence, school, hospital,

Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks)  Screen Netting Other	
Monthly inspections (If netting or screening is not physically feasible)	
7.  Signs: Subsection C of 19.15.17.11 NMAC  12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers  Signed in compliance with 19.15.16.8 NMAC	
8.  Variances and Exceptions:  Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.  Please check a box if one or more of the following is requested, if not leave blank:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	
9. Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptate are provided below. Siting criteria does not apply to drying pads or above-grade tanks.	ptable source
General siting	
Ground water is less than 25 feet below the bottom of a low chloride temporary pit or below-grade tank.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☑ NA
Ground water is less than 50 feet below the bottom of a Temporary pit, permanent pit, or Multi-Well Fluid Management pit.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☑ NA
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. ( <b>Does not apply to below grade tanks</b> )  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	Yes No
Within the area overlying a subsurface mine. (Does not apply to below grade tanks)  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	Yes No
Within an unstable area. (Does not apply to below grade tanks)  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain. ( <b>Does not apply to below grade tanks</b> ) - FEMA map	Yes No
Below Grade Tanks	
Within 100 feet of a continuously flowing watercourse, significant watercourse, lake bed, sinkhole, wetland or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Within 200 horizontal feet of a spring or a fresh water well used for public or livestock consumption;.  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ⊠ No
Temporary Pit using Low Chloride Drilling Fluid (maximum chloride content 15,000 mg/liter)	
Within 100 feet of a continuously flowing watercourse, or any other significant watercourse or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). (Applies to low chloride temporary pits.)  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a occupied permanent residence, school, hospital, institution, or church in existence at the time of initial application.	☐ Yes ☐ No
- Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
Within 200 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 300feet of any other fresh water well or spring, in existence at the time of the initial application.  NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No

Within 100 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Temporary Pit Non-low chloride drilling fluid	
Within 300 feet of a continuously flowing watercourse, or any other significant watercourse, or within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or 1000 feet of any other fresh water well or spring, in the existence at the time of the initial application;  - NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within 300 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Permanent Pit or Multi-Well Fluid Management Pit	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).	
- Topographic map; Visual inspection (certification) of the proposed site	Yes No
<ul> <li>Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.</li> <li>Visual inspection (certification) of the proposed site; Aerial photo; Satellite image</li> </ul>	☐ Yes ☐ No
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.	
- NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
<ul> <li>Within 500 feet of a wetland.</li> <li>US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site</li> </ul>	☐ Yes ☐ No
10.  Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 N	IMAC
Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the doc	
<ul> <li>attached.</li> <li>Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC</li> <li>Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9</li> <li>Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC</li> <li>Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>	) NMAC
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC  Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19. and 19.15.17.13 NMAC	15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number:	
II. Multi Wall Fluid Management Pit Checkiet. Subsection P. of 10.15.17.0 NIMAC	
Multi-Well Fluid Management Pit Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the do attached.	cuments are
<ul> <li>□ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>□ A List of wells with approved application for permit to drill associated with the pit.</li> </ul>	
Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC	.15.17.9 NMAC

Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the	documents are
attached.  Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Climatological Factors Assessment  Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC	
<ul> <li>□ Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC</li> </ul>	
<ul> <li>Quality Control/Quality Assurance Construction and Installation Plan</li> <li>□ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC</li> <li>□ Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC</li> <li>□ Nuisance or Hazardous Odors, including H₂S, Prevention Plan</li> <li>□ Emergency Response Plan</li> </ul>	
☐ Oil Field Waste Stream Characterization ☐ Monitoring and Inspection Plan	
Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan.	
Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Multi-well F Alternative Proposed Closure Method: Waste Excavation and Removal	luid Management Pit
Waste Removal (Closed-loop systems only)  On-site Closure Method (Only for temporary pits and closed-loop systems)  In-place Burial On-site Trench Burial  Alternative Closure Method	
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be closure plan. Please indicate, by a check mark in the box, that the documents are attached.	attached to the
<ul> <li>☑ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC</li> <li>☑ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.13 NMAC</li> <li>☑ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)</li> <li>☑ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>☑ Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> <li>☑ Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC</li> </ul>	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sour provided below. Requests regarding changes to certain siting criteria require justifications and/or demonstrations of equivalency. In 19.15.17.10 NMAC for guidance.	
Ground water is less than 25 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is between 25-50 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
Within 100 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	Yes No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	☐ Yes ☐ No
Within 300 horizontal feet of a private, domestic fresh water well or spring used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☐ No
Within 300 feet of a wetland. US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	

adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; Written approval obtained from the municipality	
wat a line of the state of the	☐ Yes ☐ No
Within the area overlying a subsurface mine.  - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	
Society; Topographic map	☐ Yes ☐ No
Within a 100-year floodplain FEMA map	☐ Yes ☐ No
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan by a check mark in the box, that the documents are attached.  Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC  Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection E of 19.15.17.13 NMAC  Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of Subsection K of 19.15.17.13 NMAC  Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.  Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC  Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of 19.15.17.13 NMAC  Waste Material Sampling Plan - based upon the appropriate requirements of 19.15.17.13 NMAC  Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Site Reclamation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC	.11 NMAC 15.17.11 NMAC
17.  Operator Application Certification:  I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and bel	ief.
Name (Print): Title:	
Signature: Date:	
e-mail address: Telephone:	
18.  OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)	
OCD Representative Signature:	/ 14, 2021
	/ 14, 2021
OCD Representative Signature: CRWhitehead Approval Date: July	the closure report.
OCD Representative Signature: CRWhitehead Approval Date: July  Title: Environmental Specialist OCD Permit Number: BGT 1  19.  Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.  Closure Completion Date: 3/31/2021	the closure report.
OCD Representative Signature: CRUhitchead Approval Date: July  Title: Environmental Specialist OCD Permit Number: BGT 1  19.  Closure Report (required within 60 days of closure completion): 19.15.17.13 NMAC  Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not section of the form until an approved closure plan has been obtained and the closure activities have been completed.	the closure report.

22.				
<b>Operator</b>	Closure	Cer	tifica	ation:
T 1 1		- 41	. с	

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

fame (Print): Amanda Walker Title: Operations/Regulatory Technician – Sr

Signature: Date: 04/12/2021

e-mail address: <u>mwalker@hilcorp.com</u> Telephone: (505) 324-5122

# Hilcorp Energy Company San Juan Basin Below Grade Tank Closure Report

Lease Name: **RIVERINE 1** API No.: **30-045-29344** 

In accordance with Rule 19.15.17.13 NMAC the following information describes the closure of the below-grade tank referenced above. All proper documentation regarding closure activities is being included with the C-144.

#### General Plan:

1. HILCORP shall close a below-grade tank within 60 days of cessation of operations per Subsection G.4 of 19.15.17.13 NMAC. This will include a) below-grade tanks that do not meet the requirements of Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC or is not included in Paragraph (5) of Subsection I of 19.15.17.11 NMAC within five years, if not retrofitted to comply with Paragraphs (1) through (4) of Subsection I of 19.15.17.11 NMAC; b) an earlier date that the division requires because of imminent danger to fresh water, public health or the environment. For any closure, HILCORP will file the C144 Closure Report as required.

The below-grade tank referenced above was permitted and closed within 60 days of cessation of the below-grade tanks operation.

2. HILCORP shall remove liquids and sludge from a below-grade tank prior to implementing a closure method and shall dispose of the liquids and sludge in a division-approved facility. The facilities to be used will be Basin Disposal (Permit #NM-01-005), JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) and Envirotech Land Farm (Permit #NM-01-011). The liner after being cleaned well (Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC) will be disposed of at the San Juan County Regional Landfill located on CR 3100.

All recovered liquids were disposed of at Basin Disposal (Permit #NM-01-005) and any sludge or soil required to be removed to facilitate closure was hauled to Envirotech Land Farm (Permit #NM-01-011) and JFJ Landfarm % IEI (Permit #NM-01-0010B). The liner was cleaned per Subsection D, Paragraph 1, Subparagraph (m) of 19.15.9.712 NMAC was disposed of at the San Juan County Regional Landfill located on CR 3100.

3. HILCORP will receive prior approval to remove the below-grade tank and dispose of it in a division-approved facility or recycle, reuse, or reclaim it in a manner that the appropriate division district office approves.

The below-grade tank was disposed of in a division-approved manner.

4. If there is any on-site equipment associated with a below-grade tank, then HILCORP shall remove the equipment, unless the equipment is required for some other purpose.

All on-site equipment associated with the below-grade tank was removed.

5. HILCORP will test the soils beneath the below-grade tank to determine whether a release has occurred. HILCORP shall collect, at a minimum, a five point, composite sample; collect individual grab samples from any area that is wet, discolored or showing other evidence of a release; and analyzed for the constituents listed in Table I of 19.15.17.13 NMAC. Hilcorp shall notify the division of its results on form C-141.

A five point composite sample was taken of the below-grade tank using sampling tools and all samples tested per Subsection B of 19.15.17.1 3(B)(1)(b). (Sample results attached). Form C-141 is attached.

Components	Tests Method	Limit (mg/kg)
Benzene	EPA SW-846 8021B or 8260B	0.2
BTEX	EPA SW-846 8021B or 8260B	50
TPH	EPA SW-846 418.1	100
Chlorides	EPA 300.0	250

6. If HILCORP or the division determines that a release has occurred, then HILCORP shall comply with 19.15.3.116 NMAC and 19.15.1.19 NMAC, as appropriate.

A release was not determined for the above referenced well.

7. If the sampling program demonstrates that a release has not occurred or that any release does not exceed the concentrations specified in Table I of 19.15.17.13 NMAC, then HILCORP shall backfill the excavation with compacted, non-waste containing, earthen material; construct a division-prescribed soil cover; recontour and revegetate the site.

The below-grade tank area passed all requirements of Paragraph (4) of Subsection E of 19.15.17.13 NMAC and was backfilled with compacted, non-waste containing, earthen material.

- 8. Notice of Closure will be given prior to closure to the Aztec Division office between 72 hours and one week via email or verbally. The notification of closure will include the following:
  - i. Operator's name
  - ii. Location by Unit Letter, Section, Township, and Range. Well name and API number.

#### Notification is attached.

9. The surface owner shall be notified of HILCORP's closing of the below-grade tank 72 hours, but not more than one week, prior to closure as per the approved closure plan via certified mail, return receipt requested.

The closure process notification to the landowner was sent via email. (See Attached) (Well located on Federal Land, certified mail is not required for Federal Land per BLM/OCD MOU.)

10. Re-contouring of location will match fit, shape, line, form and texture of the surrounding. Re-shaping will include drainage control, prevent ponding, and prevent erosion. Natural drainages will be unimpeded and water bars and/or silt traps will be place in areas where needed to prevent erosion on a large scale. Final re-contour shall have a uniform appearance with smooth surface, fitting the natural landscape.

The below-grade tank area was re-contoured to match fit, shape, line, form and texture of the surrounding area. Re-shaping including drainage control, to prevent ponding and erosion. Natural drainages were unimpeded and water bars and/or silt traps were placed in areas where needed to prevent erosion on a large scale. Final recontour has a uniform appearance with smooth surface, fitting the natural landscape.

11. HILCORP shall seed the disturbed areas the first favorable growing season following closure of a below-grade tank. Seeding will be accomplished via drilling on the contour whenever practical or by other division-approved methods. BLM stipulated seed mixes will be used on federally regulated lands and division-approved seed mixtures (administratively approved if required) will be utilized on all State or private lands. A uniform vegetative cover has been established that reflects a life-form ratio of plus or minus fifty percent (50%) of pre- disturbance levels and a total percent plant cover of at least seventy percent (70%) of pre-disturbance levels, excluding noxious weeds. If alternate seed mix is required by the state, private owner or tribe, it will be implemented with administrative approval if needed. Hilcorp will repeat seeding or planting will be continued until successful vegetative growth occurs.

4/12/2021

Provision 13 was accomplished through complying with BLM seeding requirements as allowed by the BLM/OCD MOU.

12. A minimum of four feet of cover shall be achieved and the cover shall include one foot of suitable material, with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, to establish vegetation at the site, or the background thickness of topsoil, whichever is greater.

The below-grade tank area was backfilled and more than four feet of cover was achieved and the cover included one foot of suitable material to establish vegetation at the site.

- 13. All closure activities will include proper documentation and be available for review upon request and will be submitted to OCD within 60 days of closure of the below-grade tank. Closure report will be filed on C-144 and incorporate the following:
  - Soil Backfilling and Cover Installation (See Report)
  - Re-vegetation application rates and seeding techniques (See Report)
  - Photo documentation of the site reclamation (Included as an attachment)
  - Confirmation Sampling Results (Included as an attachment)
  - Proof of closure notice (Included as an attachment)

#### **Mandi Walker**

From: Mandi Walker

**Sent:** Monday, March 8, 2021 12:45 PM

To: Ben Mitchell; Bobby Spearman; Brandon Powell (brandon.powell@state.nm.us); Chad

Perkins; Jennifer Deal; 'Smith, Cory, EMNRD'; Kurt Hoekstra; Lisa Jones

**Cc:** Farmington Regulatory Techs; Joey Becker; Colby McKee

**Subject:** Riverine 1 (3004529344) - 72hr Closure Notice

**Importance:** High

The subject well has a below-grade tank that will begin the closure process between 72 hours and one week from this notification. Please contact me at any time if you have any questions or concerns.

Lisa, please send notification to the Landowner.

Well Name: RIVERINE 1 API#: 3004529344 Location: 11-29N-13W

Footages: 1151' FSL & 1995' FEL

Operator: HEC Surface Owner: FEE

Scheduled Date & Time of Start: 3/11/2021 @ 9:00 am

Thanks!

## Mandí Walker

San Juan North Regulatory Technician Hilcorp Energy 505.324.5122 mwalker@hilcorp.com



March 8, 2021

Transmitted Via
Certified Mail – Electronic Return Receipt Requested
9214 7969 0099 9790 1017 5815 20

To: Riley Industrial Services INC

PO Box 2014

Farmington, NM 87499

Re: RIVERINE 1

API: 30-045-29344

Unit O (SW/SE) Section 11, T29N, R13W

San Juan County, New Mexico

#### Dear Landowner:

Pursuant to New Mexico Administrative Code § 19.15.17.13 (E) (1) operator shall provide the surface owner of the operator's proposal to close a below- grade tank.

In compliance with this requirement, please consider this letter as notification that Hilcorp San Juan, L.P. intends to close a below-grade tank on the subject well pad. The closure process will begin between 72 hours and one week from this notification.

If you have any questions regarding this work, please call within five (5) days of receiving this notice.

Sincerely,

L isa J ones

Land Tech

382 Road 3100, Aztec, NM 87410 Phone: 505/599-3400 Fax 505/599-3453 hilcorp.com District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## **Release Notification**

## **Responsible Party**

Contact email mwalker@hilcorp.com Incident # (assigned by OCD)  Contact mailing address 382 Road 3100 Aztec NM 87410  Location of Release Source	Responsible Party	Hilcorp Energy Com	pany	OGRID	372171
Location of Release Source	Contact Name MANDI WALKER		Contact Te	lephone (505) 324-5122	
Location of Release Source  titude 36.736976	Contact email m	walker@hilcorp.com		Incident # (	(assigned by OCD)
Longitude _108.173186	Contact mailing add	ress 382 Road 3100	Aztec NM 87410	)	
Longitude _108.173186				<b>a.</b> D. J. G.	
te Name RIVERINE 1  Site Type Gas Well  API# (if applicable) 3004529344  Unit Letter Section Township Range County O 11 29N 13W SAN JUAN  Trace Owner: State Federal Tribal Private (Name: RILEY INDUSTRIAL SERVICES INC)  Nature and Volume of Release  Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)  Crude Oil Volume Released (bbls) Volume Recovered (bbls)  Produced Water Volume Released (bbls) Volume Recovered (bbls)  Is the concentration of dissolved chloride in the produced water >10,000 mg/1?  Condensate Volume Released (Mcf) Volume Recovered (Mcf)  Natural Gas Volume Released (provide units) Volume/Weight Recovered (provide units)			Location (	of Release So	ource
Site Type   Gas Well     API# (if applicable) 3004529344     Init Letter   Section   Township   Range   County     O   11   29N   13W   SAN JUAN     San JUAN     Crude Owner:   State   Federal   Tribal   Private (Name: RILEY INDUSTRIAL SERVICES INC )   Nature and Volume of Release	atitude <u>36.736976</u>		Longitude -108	.173186	
API# (if applicable) 3004529344  Unit Letter Section Township Range County O 11 29N 13W SAN JUAN  Trace Owner: State Federal Tribal Private (Name: RILEY INDUSTRIAL SERVICES INC)  Nature and Volume of Release  Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)  Crude Oil Volume Released (bbls) Volume Recovered (bbls)  Produced Water Volume Released (bbls) Volume Recovered (bbls)  Is the concentration of dissolved chloride in the produced water >10,000 mg/l?  Condensate Volume Released (bbls) Volume Recovered (bbls)  Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)  Other (describe) Volume/Weight Released (provide units)  Fause of Release			(NAD 83 in decir	mal degrees to 5 decim	al places)
Unit Letter   Section   Township   Range   County   O   11   29N   13W   SAN JUAN  rface Owner:   State   Federal   Tribal   Private (Name: RILEY INDUSTRIAL SERVICES INC )    Nature and Volume of Release	ite Name RIVERIN	VE 1		Site Type	Gas Well
O 11 29N 13W SAN JUAN  rface Owner: □ State □ Federal □ Tribal ☑ Private (Name:	Date Release Discove	ered N/A		API# (if appl	licable) 3004529344
O 11 29N 13W SAN JUAN  rface Owner: □ State □ Federal □ Tribal ☑ Private (Name:	Unit Letter   Section	on Township	Range	Count	tv
rface Owner: State Federal Tribal Private (Name: RILEY INDUSTRIAL SERVICES INC  Nature and Volume of Release  Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)  Crude Oil Volume Released (bbls) Volume Recovered (bbls)  Produced Water Volume Released (bbls) Volume Recovered (bbls)  Is the concentration of dissolved chloride in the produced water >10,000 mg/l?  Condensate Volume Released (bbls) Volume Recovered (bbls)  Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)  Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)		-			
Nature and Volume of Release  Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)  Crude Oil Volume Released (bbls) Volume Recovered (bbls)  Produced Water Volume Released (bbls) Volume Recovered (bbls)  Is the concentration of dissolved chloride in the produced water >10,000 mg/l?  Condensate Volume Released (bbls) Volume Recovered (bbls)  Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)  Other (describe) Volume/Weight Released (provide units)  Pause of Release					
Produced Water Volume Released (bbls)  Is the concentration of dissolved chloride in the produced water >10,000 mg/l?  Condensate Volume Released (bbls)  Natural Gas Volume Released (Mcf)  Other (describe) Volume/Weight Released (provide units)  Volume/Weight Recovered (provide units)  Volume/Weight Recovered (provide units)			ll that apply and attach c		justification for the volumes provided below)
Is the concentration of dissolved chloride in the produced water >10,000 mg/l?  Condensate  Volume Released (bbls)  Volume Recovered (bbls)  Volume Recovered (Mcf)  Volume Recovered (Mcf)  Volume/Weight Released (provide units)  Volume/Weight Recovered (provide units)	Produced Water				` ,
produced water >10,000 mg/l?  Condensate Volume Released (bbls) Volume Recovered (bbls)  Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)  Other (describe) Volume/Weight Released (provide units)  Cause of Release				lorida in tha	, ,
Condensate Volume Released (bbls) Volume Recovered (bbls)  Natural Gas Volume Released (Mcf) Volume Recovered (Mcf)  Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)  ause of Release			ionae in the	Les Livo	
Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units)  Cause of Release	Condensate	Volume Release			Volume Recovered (bbls)
Cause of Release	Natural Gas	Volume Release	Volume Released (Mcf)		Volume Recovered (Mcf)
	Other (describe) Volume/Weight Released (provide units)		units)	Volume/Weight Recovered (provide units)	
	Cause of Release				
o release was encountered during the BGT Closure.					
	No release was encour	ntered during the BGT	Closure.		

Received by OCD: 4/12/2021 1:39:23 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

Page	13	of	24
			1

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
☐ Yes ⊠ No	N/A
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Not Required	
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	we been contained via the use of berms or dikes, absorbent pads, or other containment devices.
<u>-</u>	coverable materials have been removed and managed appropriately.  d above have not been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have atte and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: Amand	a Walker Title: Operations/Regulatory Technician – Sr.
Signature:	Date: 04/12/2021
email:	mwalker@hilcorp.com Telephone: (505)324-5122
OCD Only	
Received by:	Date:



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

March 15, 2021

Jennifer Deal HILCORP ENERGY PO Box 4700 Farmington, NM 87499

TEL: (505) 564-0733

FAX:

RE: Riverine 1 OrderNo.: 2103626

#### Dear Jennifer Deal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/12/2021 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andy

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report Lab Order 2103626

Date Reported: 3/15/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: HILCORP ENERGY Client Sample ID: BGT

 Project:
 Riverine 1
 Collection Date: 3/11/2021 10:50:00 AM

 Lab ID:
 2103626-001
 Matrix: SOIL
 Received Date: 3/12/2021 8:35:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	: <b>VP</b>
Chloride	160	59		mg/Kg	20	3/12/2021 10:39:17 AM	58692
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analys	: mb
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	3/12/2021 11:04:43 AM	58686
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	3/12/2021 11:04:43 AM	I 58686
Surr: DNOP	92.0	70-130		%Rec	1	3/12/2021 11:04:43 AM	I 58686
EPA METHOD 8015D: GASOLINE RANGE						Analys	: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	3/12/2021 10:48:31 AM	B75901
Surr: BFB	107	75.3-105	S	%Rec	1	3/12/2021 10:48:31 AM	B75901
EPA METHOD 8021B: VOLATILES						Analys	: NSB
Benzene	ND	0.016		mg/Kg	1	3/12/2021 10:48:31 AM	D75901
Toluene	ND	0.032		mg/Kg	1	3/12/2021 10:48:31 AM	D75901
Ethylbenzene	ND	0.032		mg/Kg	1	3/12/2021 10:48:31 AM	D75901
Xylenes, Total	ND	0.063		mg/Kg	1	3/12/2021 10:48:31 AM	D75901
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	3/12/2021 10:48:31 AM	D75901

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2103626** 

15-Mar-21

Client: HILCORP ENERGY

**Project:** Riverine 1

Sample ID: MB-58692 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58692 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686243 Units: mg/Kg

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

Chloride ND 1.5

Sample ID: LCS-58692 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58692 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686244 Units: mg/Kg

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

Chloride 15 1.5 15.00 0 98.5 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 6

## Hall Environmental Analysis Laboratory, Inc.

37

4.3

9.7

48.59

4.859

WO#: 2103626

15-Mar-21

**Client:** HILCORP ENERGY

**Project:** Riverine 1

0 1 10 110 1000				_						
Sample ID: <b>MB-58686</b>	SampType: <b>MBLK</b>			Tes	TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: PBS	Batch ID: <b>58686</b> Ru			RunNo: 7	unNo: <b>75910</b>					
Prep Date: 3/12/2021	Analysis D	ate: 3/	12/2021	S	SeqNo: 2	685926	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.1		10.00		90.7	70	130			
Sample ID: LCS-58686	Sample ID: LCS-58686 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics									
Client ID: LCSS	Batch	ID: <b>58</b>	686	F	RunNo: 7	5910				
Prep Date: 3/12/2021	Analysis D	ate: 3/	12/2021	SeqNo: <b>2685927</b>			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	10	50.00	0	74.5	68.9	141			
Surr: DNOP	4.5		5.000		89.1	70	130			
Sample ID: 2103626-001AMS	SampT	уре: <b>М</b> \$	5	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BGT	Batch	ID: <b>58</b>	686	F	RunNo: 7	5910				
Prep Date: 3/12/2021	Analysis D	ate: 3/	12/2021	S	SeqNo: 2	685928	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	31	8.7	43.71	0	72.0	15	184			
Surr: DNOP	4.1		4.371		93.5	70	130			
Sample ID: 2103626-001AMSI	SampT	уре: М	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: BGT	Batch	ID: <b>58</b>	686	F	RunNo: <b>7</b>	5910				
Prep Date: 3/12/2021	Analysis D	ate: 3/	12/2021	S	SeqNo: 2	685929	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Sample ID: MB-58701	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 58701	RunNo: <b>75910</b>		
Prep Date: 3/12/2021	Analysis Date: 3/12/2021	SeqNo: <b>2686263</b>	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual	
Surr: DNOP	8.3 10.00	82.6 70	130	

0

76.6

88.2

15

70

184

130

16.7

0

23.9

0

Sample ID: LCS-58701	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 58701	RunNo: <b>75910</b>
Prep Date: 3/12/2021	Analysis Date: 3/12/2021	SeqNo: <b>2686279</b> Units: <b>%Rec</b>
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

#### Qualifiers:

Surr: DNOP

Diesel Range Organics (DRO)

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 3 of 6

#### Hall Environmental Analysis Laboratory, Inc.

4.1

WO#: 2103626

15-Mar-21

**Client:** HILCORP ENERGY

**Project:** Riverine 1

Sample ID: LCS-58701 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58701 RunNo: 75910

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686279 Units: %Rec

5.000

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: DNOP

81.6

70

130

Sample ID: 2103687-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 58701 RunNo: 75910

SeqNo: 2686310 Prep Date: 3/12/2021 Analysis Date: 3/12/2021 Units: %Rec

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

Surr: DNOP 4.854 4.2 85.6

Sample ID: 2103687-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BatchQC Batch ID: 58701

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686313 Units: %Rec

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

Surr: DNOP 4.1 4.916 84.2 70

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 4 of 6

#### Hall Environmental Analysis Laboratory, Inc.

1100

WO#: 2103626

S

15-Mar-21

**Client:** HILCORP ENERGY

**Project:** Riverine 1

Surr: BFB

Sample ID: 2.5ug gro Ics

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: **B75901** RunNo: 75901

Prep Date: Analysis Date: 3/12/2021 SeqNo: 2686703 Units: mq/Kq

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

106

75.3

TestCode: EPA Method 8015D: Gasoline Range

105

1000

Client ID: LCSS Batch ID: **B75901** RunNo: 75901

SampType: LCS

Prep Date: Analysis Date: 3/12/2021 SeqNo: 2686704 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 80 26 5.0 25.00 O 103 120 Surr: BFB 1200 S 1000 117 75.3 105

Sample ID: 2103626-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: BGT Batch ID: **B75901** RunNo: 75901 Prep Date: Analysis Date: 3/12/2021 SeqNo: 2686706 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual Gasoline Range Organics (GRO) 18 3.2 15.79 0 115 61.3 114 S Surr: BFB S 820 631.7 75.3 130 105

Sample ID: 2103626-001amsd TestCode: EPA Method 8015D: Gasoline Range SampType: MSD

Client ID: BGT Batch ID: **B75901** RunNo: 75901

Prep Date: Analysis Date: 3/12/2021 SeqNo: 2686707 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Gasoline Range Organics (GRO) 17 3.2 15.79 110 61.3 4.69 114 20 Surr: BFB 820 631.7 130 75.3 105 0 0 S

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 5 of 6

#### Hall Environmental Analysis Laboratory, Inc.

2.6

0.99

0.10

WO#: **2103626** *15-Mar-21* 

**Client:** HILCORP ENERGY

**Project:** Riverine 1

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: D75901 RunNo: 75901

Prep Date: Analysis Date: 3/12/2021 SeqNo: 2686746 Units: mg/Kg

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

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 0.99 1.000 98.5 80 120

3.000

1.000

Sample ID: 100ng btex Ics	Sampl	Type: <b>LC</b>	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: <b>D7</b>	5901	RunNo: <b>75901</b>						
Prep Date:	Analysis D	Date: 3/	12/2021	9	SeqNo: 20	686747	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.025	1.000	0	87.2	80	120			
Toluene	0.89	0.050	1.000	0	89.5	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.1	80	120			

0

88.3

99.2

80

80

120

120

#### Qualifiers:

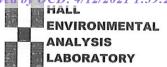
Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

## Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: HILCORP ENERGY Work Order Number: 2103626 RcptNo: 1 Received By: Sean Livingston 3/12/2021 8:35:00 AM Completed By: **Desiree Dominguez** 3/12/2021 8:41:30 AM Reviewed By: JR 3/12/21 Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No  $\square$ 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? Yes 🗸 No 🗌 8. Was preservative added to bottles? Yes No 🗸 NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No  $\square$ NA 🗸 Yes 10. Were any sample containers received broken? No 🗸 # of preserved 3/12/21 bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? **V** No 14. Were all holding times able to be met? Yes 🗸 Checked by: No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions:

16. Additional remarks:

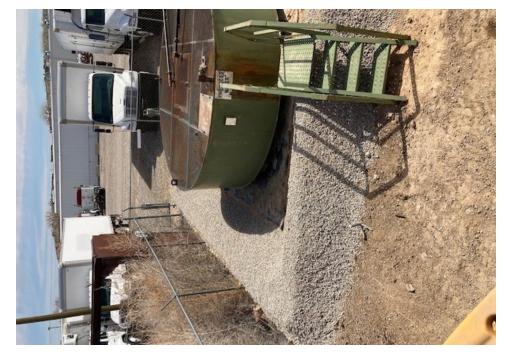
17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

Released to Imaging: 7/14/2021 4:54:32 PM







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

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

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

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

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

CONDITIONS

Action 23752

#### **CONDITIONS**

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	23752
	Action Type:
	[C-144] Below Grade Tank Plan (C-144B)

#### CONDITIONS

Created By	Condition	Condition Date
cwhitehead	None	7/14/2021