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

Corrosion around the man way door of the tank.

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

#### NMOCD Release Notification MAR 2 5 2019 **Responsible Party** DISTRICT III OGRID: 372171 Responsible Party: Hilcorp Energy Contact Name: Lindsay Dumas Contact Telephone: 281-794-9159 Contact email: Ldumas@hilcorp.com Incident # (assigned by OCD) Contact mailing address: 1111 Travis St. Houston, TX 77002 **Location of Release Source** Latitude 36.43239 Longitude -107.44795 (NAD 83 in decimal degrees to 5 decimal places) Site Name: Canyon Largo Unit 252 Site Type: Gas Date Release Discovered: 2/24/19 API# (if applicable) 30-039-20805 Unit Letter Section Township Range County 3 A 25N 06W Rio Arriba Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: 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) 11 bbls Volume Recovered (bbls) 0 bbls Is the concentration of dissolved chloride in the Yes No produced water >10,000 mg/l? Condensate Volume Released (bbls) Volume Recovered (bbls) ☐ Natural Gas Volume Recovered (Mcf) Volume Released (Mcf) Other (describe) Volume/Weight Released (provide units) Volume/Weight Recovered (provide units) Cause of Release



## State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by	
19.15.29.7(A) NMAC?	
☐ Yes ⊠ No	
If VES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
II 1 LS, was ininiculate in	thee given to the OCD. By whom: To whom: When and by what means (phone, eman, etc).
	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.
	s been secured to protect human health and the environment.
_	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
	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.
	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
failed to adequately investig	ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name: _Lindsay I	
Signature:	Oug Clm Date:3/11/19
email: Ldumas@hilcorp	Tolonhono: 922 920 4595
eman: _Loumas@micorp	.com Telephone: 832-839-4585
OCD Only	
Received by:	Date:

# State of New Mexico Oil Conservation Division

What is the shallowest depth to groundwater beneath the area affected by the release?

Did this release impact groundwater or surface water?

Incident ID	
District RP	
Facility ID	
Application ID	

 $\geq 100$  (ft bgs)

☐ Yes ⊠ No

### Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?  Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?  Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?  Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?  Are the lateral extents of the release within 300 feet of a wetland?  Are the lateral extents of the release overlying a subsurface mine?  Are the lateral extents of the release overlying an unstable area such as karst geology?  Are the lateral extents of the release overlying an unstable area such as karst geology?  Are the lateral extents of the release within a 100-year floodplain?  Did the release impact areas not on an exploration, development, production, or storage site?  Oharacterization Report Clecklist: Each of the following items must be included in the report.  Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographic/Aerial maps  Laboratory data including chain of custody	Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No					
or church?  Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?  Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?  Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?  Are the lateral extents of the release within 300 feet of a wetland?  Are the lateral extents of the release overlying a subsurface mine?  Are the lateral extents of the release overlying an unstable area such as karst geology?  Are the lateral extents of the release overlying an unstable area such as karst geology?  Are the lateral extents of the release within a 100-year floodplain?  Did the release impact areas not on an exploration, development, production, or storage site?  Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.  Characterization Report Checklist: Each of the following items must be included in the report.  Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographic/Aerial maps							
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water well field?  Are the lateral extents of the release within 300 feet of a wetland?  Are the lateral extents of the release overlying a subsurface mine?  Are the lateral extents of the release overlying an unstable area such as karst geology?  Are the lateral extents of the release overlying an unstable area such as karst geology?  Are the lateral extents of the release within a 100-year floodplain?  Did the release impact areas not on an exploration, development, production, or storage site?  Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.  Characterization Report Checklist: Each of the following items must be included in the report.  Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographis including date and GIS information  Topographic/Aerial maps	Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No					
Are the lateral extents of the release overlying a subsurface mine?  Are the lateral extents of the release overlying an unstable area such as karst geology?  Are the lateral extents of the release within a 100-year floodplain?  Did the release impact areas not on an exploration, development, production, or storage site?  Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.  Characterization Report Checklist: Each of the following items must be included in the report.  Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps		☐ Yes ☑ No					
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Are the lateral extents of the release within a 100-year floodplain?  Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?  Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.  Characterization Report Checklist: Each of the following items must be included in the report.  Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.  Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps	Are the lateral extents of the release overlying a subsurface mine?						
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Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release  Boring or excavation logs  Photographs including date and GIS information  Topographic/Aerial maps	Characterization Report Checklist: Each of the following items must be included in the report.						
Photographs including date and GIS information Topographic/Aerial maps	Field data  Data table of soil contaminant concentration data  Depth to water determination  Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release	.s.					
☐ Topographic/Aerial maps	Photographs including date and GIS information						
	☐ Topographic/Aerial maps						

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

# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

# State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

### Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.	
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)	e
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)	
Description of remediation activities	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD ru and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.  Printed Name: The Addy Amas Title: Environmental Specialist  Signature: Date: 3-19-19  email: University of the pursuant to the OCD when reclamation and re-vegetation are complete.	
OCD Only	
Received by:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate a remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsibility of compliance with any other federal, state, or local laws and/or regulations.  Closure Approved by:  Date:  Title:  Title:	
<del>-</del>	

2/24/19 - Release discovered

2/25/19 - Release reported to NMOCD and BLM

3/1/19 - Hilcorp sent confirmation sampling notification to NMOCD and BLM for 3/5/19 at 9AM 3/5/19 @ 6:39AM - Hilcorp postponed sampling to 3/7/19 due to road condition from weather

3/7/19 - Hilcorp sampled the release impacted area

3/11/19 - Hilcorp submitted the Initial C-141

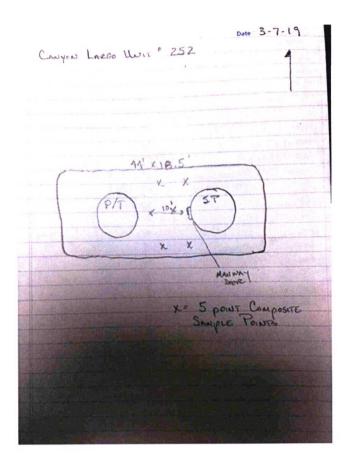
3/15/19 - Lab results available, all results were below NMOCD action level

No further action.

# Scaled Map



# Field Data

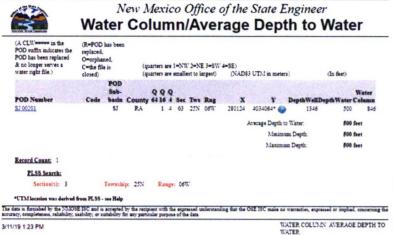


# Data table of soil contaminant concentration data

# SOIL ANALYTICAL RESULTS Canyon Largo Unit 252 HILCORP ENERGY - L48 WEST

Soil Sample Identification	Sample Date	Chloride (mg/kg)		Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)		GRO (mg/kg)		GRO+DRO (mg/kg)	MRO (mg/kg)	TPH (mg/kg)
5 pt composite	3/7/2019	52	0	0	0.0014	0.0281	0.03	0.709	6.48	7.189	0	7.189
NMOCD Standards		20,000	10				50			1000		2,500

# Depth to water determination



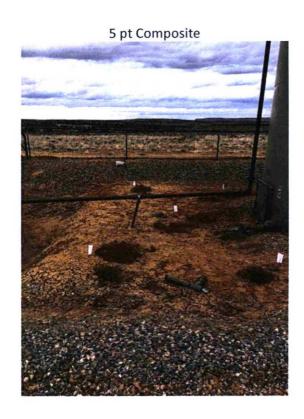


Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



# Photographs – 3/7/19 Confirmation Sampling Event





# Topographic/Aerial Maps





# ANALYTICAL REPORT

March 14, 2019

### HilCorp-Farmington, NM

Sample Delivery Group:

L1077278

Samples Received:

03/09/2019

Project Number:

Description:

Canyon Largo Unit #252

Site:

CANYON LARGO UNIT #252

Report To:

Lindsay Dumas

382 Road 3100

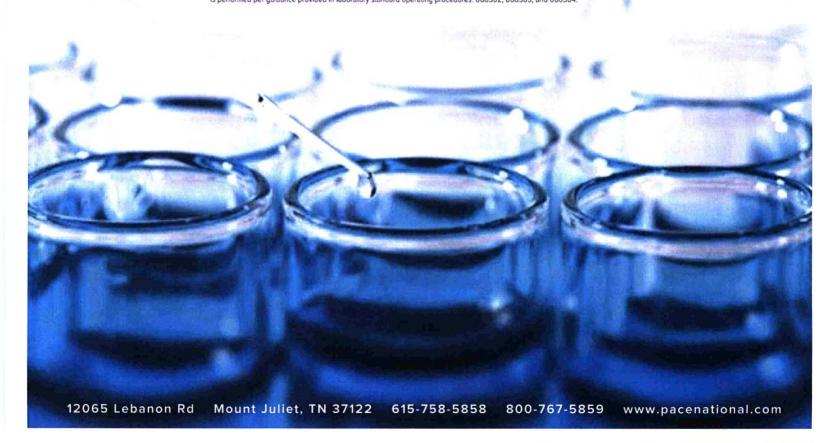
Aztec, NM 87401

Entire Report Reviewed By:

Dapline R Richards

Daphne Richards Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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### SAMPLE SUMMARY

Collected by

ONE LAB. NATIONWIDE.

Collected date/time Received date/time



SPILL SAMPLE L1077278-01 Solid			Kurt	03/07/19 09:30	03/09/19 08:	:45
Method	Batch	Dilution	Preparation	Analysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 9056A	WG1248113	1	03/13/19 14:45	03/13/19 19:51	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1248756	1	03/10/19 21:56	03/12/19 20:27	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1247957	1	03/11/19 07:23	03/11/19 21:32	KME	Mt. Juliet, TN



















Cn

<sup>2</sup>Tc















All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Daphne Richards Project Manager

Dapline R Richards

### SPILL SAMPLE

# SAMPLE RESULTS - 01

ONE LAB. NATIONWIDE.

## Wet Chemistry by Method 9056A

Collected date/time: 03/07/19 09:30

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	51.7		10.0	1	03/13/2019 19:51	WG1248113





	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	03/12/2019 20:27	WG1248756
Toluene	ND		0.00500	1	03/12/2019 20:27	WG1248756
Ethylbenzene	0.00140		0.000500	1	03/12/2019 20:27	WG1248756
Total Xylene	0.0281		0.00150	1	03/12/2019 20:27	WG1248756
TPH (GC/FID) Low Fraction	0.709		0.100	1	03/12/2019 20:27	WG1248756
(S) a,a,a-Trifluorotoluene(FID)	89.0		77.0-120		03/12/2019 20:27	WG1248756
(S) a,a,a-Trifluorotoluene(PID)	92.6		72.0-128		03/12/2019 20:27	WG1248756



## Semi-Volatile Organic Compounds (GC) by Method 8015

		3 6 6				
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	6.48		4.00	1	03/11/2019 21:32	WG1247957
C28-C40 Oil Range	ND		4.00	1	03/11/2019 21:32	WG1247957
(S) o-Terphenyl	109		18.0-148		03/11/2019 21:32	WG1247957







#### WG1248113

Wet Chemistry by Method 9056A

### QUALITY CONTROL SUMMARY

L1077278-01

#### ONE LAB. NATIONWIDE.



(MB) R3391415-1 03/13/19 15:59

 MB Result
 MB Qualifier
 MB MDL
 MB RDL

 Analyte
 mg/kg
 mg/kg
 mg/kg

 Chloride
 U
 0.795
 10.0



#### L1077065-06 Original Sample (OS) • Duplicate (DUP)

(OS) L1077065-06 03/13/19 17:12 • (DUP) R3391415-3 03/13/19 17:28

	Original Result	<b>DUP Result</b>	Dilution	DUP RPD	<b>DUP Qualifier</b>	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	ND	6.73	1	4.25	7	15



Ss

#### L1077354-08 Original Sample (OS) • Duplicate (DUP)

(OS) L1077354-08 03/13/19 23:54 • (DUP) R3391415-6 03/14/19 00:10

Original Result	<b>DUP Result</b>	Dilution	DUP RPD	<b>DUP Qualifier</b>	DUP RPD Limits
mg/kg	mg/kg		%		%
54.0	53.2	1	1.61		15



#### Laboratory Control Sample (LCS)

(LCS) R3391415-2 03/13/19 16:14

Analyte Chloride

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	217	109	80.0-120	

# <sup>9</sup>Sc

#### L1077347-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1077347-03 03/13/19 20:07 • (MS) R3391415-4 03/13/19 20:23 • (MSD) R3391415-5 03/13/19 20:39

	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	14.0	528	507	103	98.7	1	80.0-120			4.03	15

ACCOUNT: HilCorp-Farmington, NM PROJECT:

SDG: L1077278 DATE/TIME: 03/14/19 10:10 PAGE: 6 of 12

#### WG1248756

#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

L1077278-01

#### Method Blank (MB)

(MB) R3391116-4 03/12/19 15:34

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	0.0237	J	0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	91.4			77.0-120
(\$) a.a.a-Trifluorotoluene(PID)	94.4			72.0-128

Volatile Organic Compounds (GC) by Method 8015/8021



2<sub>+</sub>

3Ss





Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391116-1 03/12/19	13:43 • (LCSD) I	R3391116-2 0	3/12/19 14:04								
	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	<b>RPD Limits</b>	
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%	
Benzene	0.0500	0.0473	0.0478	94.6	95.6	76.0-121			1.08	20	
Toluene	0.0500	0.0442	0.0446	88.4	89.2	80.0-120			0.930	20	
Ethylbenzene	0.0500	0.0467	0.0476	93.3	95.1	80.0-124			1.92	20	
Total Xylene	0.150	0.140	0.142	93.1	94.3	37.0-160			1.28	20	
(S) a,a,a-Trifluorotoluene(FID)				90.5	91.2	77.0-120					
(S) a,a,a-Trifluorotoluene(PID)				91.8	92.6	72.0-128					

#### Laboratory Control Sample (LCS)

(LCS) R3391116-3 03/12/19	9 14:24				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	5.22	94.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			102	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			99.4	72.0-128	

ACCOUNT: HilCorp-Farmington, NM PROJECT:

**SDG**: L1077278 DATE/TIME: 03/14/19 10:10 PAGE: 7 of 12

#### WG1247957

#### QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Semi-Volatile Organic Compounds (GC) by Method 8015

L1077278-01

#### Method Blank (MB)

(MB)	R3390601-1	03/11/19	19:35

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	110			18.0-148



#### Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390601-2 03/11	1/10 10:40 - /I CSD	D2200601-3	02/1/10 20:20	1:						
(EC3) K3390001-2 03/11	Spike Amount		LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Extractable Petroleum Hydrocarbon	50.0	41.0	40.3	82.0	80.6	50.0-150			1.72	20
C10-C28 Diesel Range	50.0	40.8	38.9	81.6	77.8	50.0-150			4.77	20
(S) o-Terphenyl				145	158	18.0-148		<u>J1</u>		





### L1077088-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1077088-01 03/11/	19 22:12 • (MS) R	3390601-4 03/	11/19 22:26 •	(MSD) R33906	01-5 03/11/19	22:40						
	Spike Amount	<b>Original Result</b>	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	<b>RPD Limits</b>
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Extractable Petroleum Hydrocarbon	48.6	26.4	56.0	73.4	60.9	94.0	2	50.0-150		<u>J3</u>	26.9	20
C10-C28 Diesel Range	48.6	9.19	39.3	49.6	62.0	80.8	2	50.0-150		<u>J3</u>	23.2	20
(S) o-Terphenyl					64.8	73.1		18.0-148				



HilCorp-Farmington, NM

PROJECT:

SDG: L1077278

DATE/TIME: 03/14/19 10:10 PAGE: 8 of 12



Ss

### Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

#### Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.
Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.



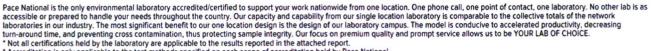
J	The identification of the analyte is acceptable; the reported value is an estimate.
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits.
13	The associated batch OC was outside the established quality control range for precision





### **ACCREDITATIONS & LOCATIONS**





\* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

#### State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico 1	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina 1	DW21704
Georgia	NELAP	North Carolina 3	41
Georgia 1	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
lowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky 16	90010	South Carolina	84004
Kentucky <sup>2</sup>	16	South Dakota	n/a
Louisiana	Al30792	Tennessee 14	2006
Louisiana 1	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas 5	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

#### Third Party Federal Accreditations

A2LA - ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA - ISO 17025 5	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

<sup>&</sup>lt;sup>1</sup> Drinking Water <sup>2</sup> Underground Storage Tanks <sup>3</sup> Aquatic Toxicity <sup>4</sup> Chemical/Microbiological <sup>5</sup> Mold <sup>6</sup> Wastewater n/a Accreditation not applicable

#### Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



HilCorp-Farmington, NM

PROJECT:

L1077278

03/14/19 10:10

PAGE: 10 of 12















Corrown, HillCorp-Earmington, NM  Address 387 Road 3100  And ress 387 Road 3100  Report To:  Insult 15  Copy To:  Customer Project Name/Number  State Collection Individences  State Colle	CHAIN-OF-CUSTODY Analytical Request Document  Pace Analytical  Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevent fields								LAB USE ONLY- Affix Workorder/Login Label Here or List Pace Workorder Number or MTJL Log-In Number Here											
Address 328 Road \$100 Anderson \$100 Report To Report To Service Managers Report To Service Managers Report To Service Managers State Collection Info/Address												1 61	IADER	\ AD	EAC	6	LAD LICE ONLY			
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### Matt Shacklock

From:

Daphne Richards

Sent: To: Friday, March 8, 2019 10:38 AM

Login

Subject:

Rush arriving 3/9 HILCORANM R4

1 SS arrives 3/9 from HILCORANM. Please log as R4 due 3/14

BTEXGRO DRORLA

Thanks Daphne

### **Lindsay Dumas**

From: Lindsay Dumas

Sent: Tuesday, March 5, 2019 7:39 AM

To: 'l1thomas@blm.gov'; 'aadeloye@blm.gov'; 'cory.smith@state.nm.us';

'Vanessa.fields@state.nm.us'; 'jim.griswold@state.nm.us'

Cc: Kurt Hoekstra

**Subject:** RE: 11.04 bbl produced water release Canyon Largo 252

This confirmation sampling is postponed until Thursday due to muddy roads. Thanks!

From: Lindsay Dumas

Sent: Friday, March 1, 2019 9:17 AM

To: 'l1thomas@blm.gov'; 'aadeloye@blm.gov'; 'cory.smith@state.nm.us'; 'Vanessa.fields@state.nm.us';

'jim.griswold@state.nm.us'

Cc: Kurt Hoekstra

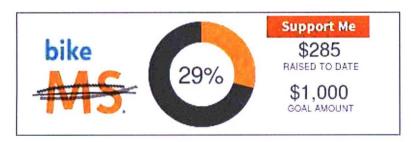
Subject: RE: 11.04 bbl produced water release Canyon Largo 252

Hilcorp would like to schedule confirmation sampling for Tuesday March 5<sup>th</sup> at 9:00AM.

Kind regards,

### Lindsay Dumas

Environmental Specialist Hilcorp Energy – L48 West Office: 832-839-4585 Mobile: 281-794-9159



From: Terry Nelson

Sent: Monday, February 25, 2019 9:36 AM

To: 'l1thomas@blm.gov' < <a href="mailto:l1thomas@blm.gov">l1thomas@blm.gov">l1thomas@blm.gov</a>; 'aadeloye@blm.gov' <a href="mailto:aadeloye@blm.gov">aadeloye@blm.gov</a>; 'cory.smith@state.nm.us' <<a href="mailto:cory.smith@state.nm.us">cory.smith@state.nm.us</a>; 'Jim.griswold@state.nm.us' <<a href="mailto:qim.griswold@state.nm.us">qim.griswold@state.nm.us</a>; 'Jim.griswold@state.nm.us'

Cc: Nick Kunze < nkunze@hilcorp.com >; Lindsay Dumas < ldumas@hilcorp.com >

Subject: 11.04 bbl produced water release Canyon Largo 252

On 2/24/2019 at 1pm, Hilcorp Energy discovered a release on the Canyon Largo 252, 30-039-20805, 36.43239, - 107.44795, A, 3, 25N, 06W. Field Operator discovered ice buildup around the man way door of the tank, upon further investigation and gauging the tank realized a loss of 11.04 bbl or produced water, remaining fluids were transferred. Tank is on schedule for inspection and repair. The release remained in the berm'd area. Zero fluid was recovered.

Hilcorp Environmental will submit an Initial C-141 within 15 days, and follow up with spill assessment.

Terry Nelson Sr. Foreman Area 14 Hilcorp Energy 505-320-2503