RECEIVED By JKeyes at 9:33 am, Jul 07, 2016

APPROVED

Confirmation bottom and sidewall samples must be provided in the closure report.



Remediation Work Plan Alpha Crude Connector, LLC: Lynch Station |1RP-4313|

June 30, 2016

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

Prepared For:

Alpha Crude Connector, LLC

Mr. Jamie Keyes NMOCD District 1 811 S. 1st Street Artesia, NM 88210

Subject: Soil Assessment and Work Plan Alpha Crude Connector, LLC Holly Station *1RP-4313*

Dear Mr. Keyes,

Alpha Crude Connector (ACC) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The ACC Lynch Station is located approximately thirty-one (31) miles southwest of Hobbs, New Mexico. The legal location for this facility is Unit Letter B, Section 1, Township 21 South and Range 33 East in Lea County, New Mexico. More specifically the latitude and longitude are 32.52175 North and -103.52468 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service (NRCS), the soil in this area is made up of Kimbrough gravelly loam with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

According to the New Mexico Office of the State Engineer the ground water in this area is approximately 112-feet below ground surface (BGS). Therefore the ranking for this site is a 0 based on the following:

Depth to ground water	>100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH and 1,000 mg/kg for total chlorides.

Incident Description and Initial Remedial Actions

On June 15, 2016 a temporary tank overflowed resulting in the loss of approximately 15bbls of crude oil. The oil flowed from the tank off of the pad and into the adjacent pasture for approximately 266-feet. Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area utilizing a backhoe. Due to the shallow caliche in this area, refusal was encountered at depths ranging from 1.5 to 5-feet BGS. The laboratory results from the soil sampling event are summarized in the table below.

Laboratory Results

Sample ID Depth (feet)		BTEX (mg/kg)			TPH (mg/kg) DRO	
S-1	0	360	176	4870	35900	
S-1	1	ND		ND	13.8	
S-1 REFUSAL	2	ND		ND	14.7	
S-2	0	1240	48	16200	59000	
S-2	1	1680		15200	20800	
S-2 REFUSAL	2	4.05		10.3	71.6	
S-3	0	637	ND	7630	41700	
S-3	1	1730		17300	28800	
S-3 REFUSAL	1.5	4.79		10.3	30.8	
S-4	0	11.1	ND	392	2780	
S-4	1	927		9700	12800	
S-4	2	471		6370	9950	
S-4	3	0.308		ND	ND	
S-4	4	ND		ND	ND	
S-4 REFUSAL	5	3.14		12.4	79.3	

See Appendix IV for complete report of laboratory results.

(--) Analyte Not Tested

(ND) Analyte Not Detected

Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 1-foot BGS.
- The impacted area in the vicinity of sample location S-2 will be excavated to a depth of 2-feet BGS.
- The impacted area in the vicinity of sample location S-3 will be excavated to a depth of 1.5-feet BGS.
- The impacted area in the vicinity of sample location S-4 will be excavated to a depth of 3-feet BGS.
- All of the excavated material will be hauled to a NMOCD approved solid waste disposal facility.
- The excavated area on the pad will be backfilled with caliche. The excavated area in the pasture will be backfilled with top soil and contoured to match the surrounding terrain.

Revegetation Plan

- The area in the pasture will be backfilled with loamy top soil and contoured to match the surrounding terrain and left in a "rough" condition to approximate natural surface deviations, control erosion, and promote revegetation.
- New Mexico State Land Office (NMSLO) shallow (SH) seed mixture will be planted utilizing a seed drill at a rate of 13 PLS/acre.
- The site will be periodically monitored for revegetation to insure that revegetation matching or exceeding natural potential plant cover and diversity levels is achieved.
- The site will be monitored for noxious weeds development specifically African Rue.
- Should noxious weed issues occur or revegetation is slow to occur (accounting for precipitation levels) NMSLO will be consulted on the best course of action to reconcile the issue.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE

Attachments

Ida Han

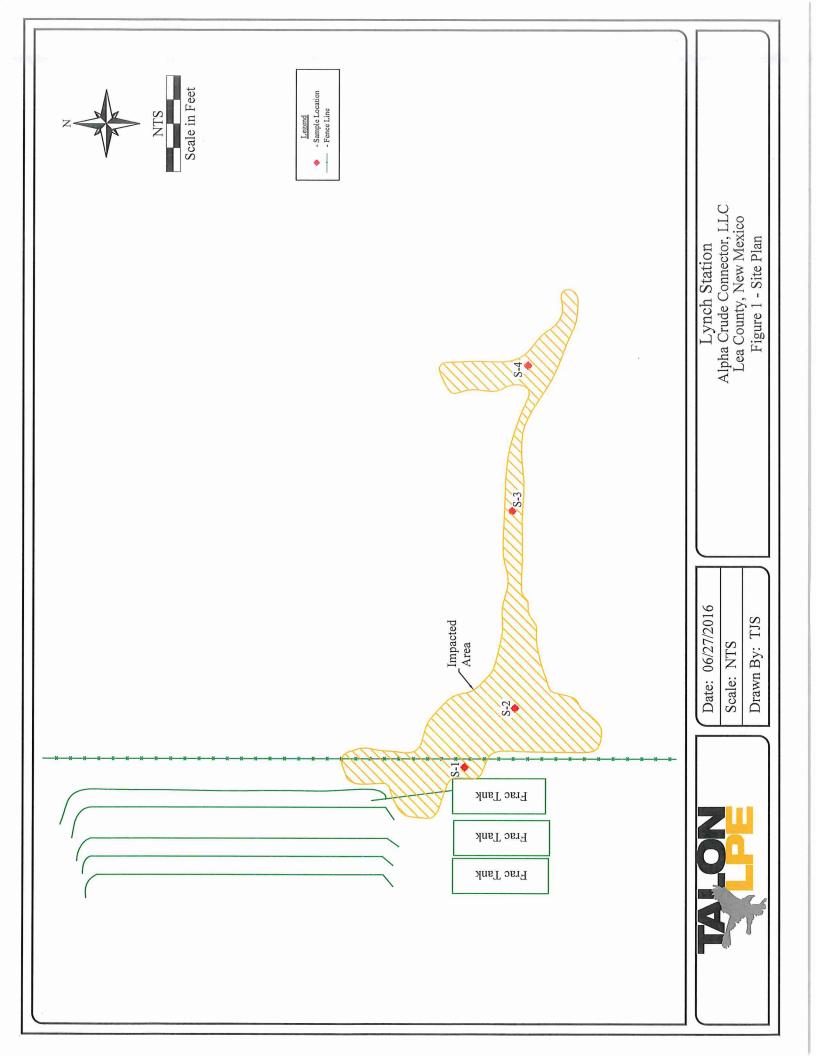
Sheldon L. Hitchcock Project Manager

07

David J. Adkins District Manager

Appendix ISite PlanAppendix IIGroundwater DataAppendix IIIInitial C-141Appendix IVLaboratory Results

APPENDIX I SITE PLAN



APPENDIX II GROUNDWATER DATA



New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW###### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	227 CREARS 126 026 1222					2=NE 3 st to lar	3=SW 4=5 'gest) (SE) NAD83 UTM in me	eters)	(In feet)	
POD Number	POD Sub- Code basin County			4 Se)		Distance	Well	Depth W Water Co	olumn
<u>CP 00611</u> <u>CP 00579</u>	LE		2 2		3 21S 2 21S		63983 63743		1190 1210	118 125	112 100	6 25
CP 00796	LE	2	2	4 02	2 21S	33E	637548	3 3597564* 🌍	1316	102		
CP 00803 CP 00804	LE				2 21S 2 21S		63733 ⁻ 63733		1316 1316	1100 170		
CP 01316 POD1	LE		2		2 215		637432		1346	1364	1046	318
CP 00797	LE	1	2	4 02	2 21S	33E	637348	3 3597564* 🌍	1487	110		
								Avera	rage Depth to Water: Minimum Depth: Maximum Depth:		100 fe	et
Record Count: 7	and and into and and part for this had also part (-		1001 MIN AND AND AND	and and any
Basin/County Search County: Lea	<u>ı:</u>											
UTMNAD83 Radius S Easting (X): 6386	· · · · ·	Noi	rthii	ng (Y): 35	98287		Radius	: 1500			

*UTM location was derived from PLSS - see Help

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

APPENDIX III INITIAL C-141

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. Et Forsie Dr. Sant Fr. NM 87476

1220 S. St. Francis Dr., Santa Fe, NM 87505

1 mar 10	RECEIVED	
State of New Me	By JKeyes at 10:16 am, Jun	20, 2016

Energy Minerals and Natur

Oil Conservation Division 1220 South St. Francis Dr. Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Santa Fe, NM 87505

Release Notification and Corrective Action

		OPERATOR	Initial Report	Final Report
Name of Company: Alpha Crude Connector, LI	Contact: George Grau			
Address: 4200 E Skelly Dr. Ste 400 Tulsa, OK	Telephone No. 817-312-3792			
Facility Name: Lynch Station	Facility Type: Pipeline		_	
Surface Owner: State	Mineral Owner	r:	API No.	

				LOCA	TION OF REI	LEASE		
Unit Letter B	Section 1	Township 21S	Range 33E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea

Latitude 32.52175 Longitude _-103.52468

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: 15bbls	Volume Recovered: 5bbls
Source of Release: Tank overflow	Date and Hour of Occurrence:	Date and Hour of Discovery:
	6/15/16 8:00pm	6/15/16 8:00pm
Was Immediate Notice Given?	If YES, To Whom?	
🗌 Yes 🗌 No 🖾 Not Required		
By Whom?	Date and Hour:	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	atercourse.
🗌 Yes 🖾 No		
If a Watercourse was Impacted, Describe Fully.*		
n a wateroourse was impacted, beschot f uny.		
Describe Cause of Problem and Remedial Action Taken.*		
A temporary tank overflowed resulting in the loss of approximately 15bb	ls of crude oil. Upon discovery a vacu	uum truck was immediately dispatched to the
site to recover standing fluid. Approximately 5bbls of fluid were recovered	ed.	
Describe Area Affected and Cleanup Action Taken.*		
The affected area originated on the pad and flowed east across the pad an	d into the adjacent posture. The area	una marked for a second second second
will be collected in preparation for drafting a remediation work plan.	a mo me adjacent pasture. The area v	was marked for a one-call and soil samples
will be concered in preparation for draning a remediation work plan.		
I hereby certify that the information given above is true and complete to t	he best of my knowledge and underst	and that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release r	notifications and perform corrective ac	ctions for releases which may endanger
public health or the environment. The acceptance of a C-141 report by the	e NMOCD marked as "Final Report"	does not relieve the operator of liability
should their operations have failed to adequately investigate and remediate	te contamination that pose a threat to	ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report of	loes not relieve the operator of respon	sibility for compliance with any other
federal, state, or local laws and/or regulations,	-	
1AT I	OIL CONSER	VATION DIVISION
Signature:		1
Drinted Marrie Course Course	Approved by Environmental Speciali	ist: Jam Hyer
Printed Name: George Grau		
Title: Vice President of Operations	Approval Date: 06/20/2016	08/20/2016
The. Vice President of Operations	Approval Date:	Expiration Date:
E-mail Address: ggrau@frontierenergyllc.com	Conditions of Approval:	
	Discrete samples only. Delineate and	remediate Attached
	per NMOCD guidelines.	1RP 4313
	for rando ob guidelines.	the second se

* Attach Additional Sheets If Necessary

nJXK1617236605 pJXK1617236766

APPENDIX IV LABORATORY RESULTS



June 28, 2016

SHELDON HITCHCOCK TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: LYNCH STATION

Enclosed are the results of analyses for samples received by the laboratory on 06/22/16 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-1 0' (H601357-01)

BTEX 8021B		mg/kg		d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	27.0	2.00	06/24/2016	ND	2.07	103	2.00	1.69	
Toluene*	128	2.00	06/24/2016	ND	1.90	95.1	2.00	1.05	
Ethylbenzene*	46.0	2.00	06/24/2016	ND	1.69	84.4	2.00	0.488	
Total Xylenes*	159	6.00	06/24/2016	ND	5.26	87.6	6.00	0.422	
Total BTEX	360	12.0	06/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	06/22/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	Analyzed By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GR0 C6-C10	4870	100	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	35900	100	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	235 9	% 35-147							
Surrogate: 1-Chlorooctadecane	1150	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-1 1' (H601357-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2016	ND	2.07	103	2.00	1.69	
Toluene*	0.063	0.050	06/24/2016	ND	1.90	95.1	2.00	1.05	
Ethylbenzene*	<0.050	0.050	06/24/2016	ND	1.69	84.4	2.00	0.488	
Total Xylenes*	<0.150	0.150	06/24/2016	ND	5.26	87.6	6.00	0.422	
Total BTEX	<0.300	0.300	06/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	6 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	13.8	10.0	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	87.9	87.9 % 35-147							
Surrogate: 1-Chlorooctadecane	100 9	6 28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

6/21/2016
Soil
* (See Notes)
Celey D. Keene
ioi *

Sample ID: S-1 2' REFUSAL (H601357-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2016	ND	2.07	103	2.00	1.69	
Toluene*	<0.050	0.050	06/24/2016	ND	1.90	95.1	2,00	1.05	
Ethylbenzene*	<0.050	0.050	06/24/2016	ND	1.69	84.4	2.00	0.488	
Total Xylenes*	<0.150	0.150	06/24/2016	ND	5.26	87.6	6.00	0.422	
Total BTEX	<0.300	0.300	06/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	73.6-14	0						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	14.7	10.0	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	89.6	% 35-147	ť						
Surrogate: 1-Chlorooctadecane	97.8	% 28-171							

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Celeg D. Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-2 0' (H601357-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	127	10.0	06/24/2016	ND	2.07	103	2.00	1.69	
Toluene*	516	10.0	06/24/2016	ND	1.90	95.1	2.00	1.05	
Ethylbenzene*	143	10.0	06/24/2016	ND	1.69	84.4	2.00	0.488	
Total Xylenes*	454	30.0	06/24/2016	ND	5.26	87.6	6.00	0.422	
Total BTEX	1240	60.0	06/24/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 73.6-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/22/2016	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16200	500	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	59000	500	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	2230	% 35-147							
Surrogate: 1-Chlorooctadecane	2320	% 28-171							

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Celeg D. Keine



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-2 1' (H601357-05)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	261	10.0	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	707	10.0	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	180	10.0	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	535	30.0	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	1680	60.0	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	15200	100	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	20800	100	06/23/2016	ND	213	107	200	0.0404	
-									
Surrogate: 1-Chlorooctane	312	% 35-147	7						

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Celley Di Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-2 2' REFUSAL (H601357-06)

BTEX 8021B	mg/	kg	Analyze	d By: MS					QM-4X
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.139	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	1.03	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	0.645	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	2.23	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	4.05	0.300	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 73.6-14	0						
TPH 8015M	mg/	kg	Analyze	zed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.3	10.0	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	71.6	10.0	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	88.1	% 35-147	,						
Surrogate: 1-Chlorooctadecane	82.0	% 28-171							

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TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-3 0' (H601357-07)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	33.5	5.00	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	196	5.00	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	93.6	5.00	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	314	15.0	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	637	30.0	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107	% 73.6-14	0		£				
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2016	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7630	100	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	41700	100	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	359	% 35-147							
Surrogate: 1-Chlorooctadecane	1240	% 28-171							

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Celey D. Keene, Lab Director/Quality Manager



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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-3 1' (H601357-08)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	222	10.0	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	700	10.0	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	200	10.0	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	604	30.0	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	1730	60.0	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 73.6-14	0						
TPH 8015M	mg	/kg	Analyze	d By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	17300	100	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	28800	100	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	418	% 35-147	,						
Surrogate: 1-Chlorooctadecane	718	% 28-171							

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-3 1.5' REFUSAL (H601357-09)

BTEX 8021B	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.276	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	1.44	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	0.703	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	2,31	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	4.73	0.300	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 73.6-14	0						
TPH 8015M	mg,	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.3	10.0	06/23/2016	ND	202	101	200	0.642	
DRO >C10-C28	30.8	10.0	06/23/2016	ND	213	107	200	0.0404	
Surrogate: 1-Chlorooctane	79.6	% 35-147	,						
Surrogate: 1-Chlorooctadecane	76.9	% 28-171							

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-4 0' (H601357-10)

BTEX 8021B	mg	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	1.71	0.200	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	1.92	0.200	06/27/2016	ND	1.73	86.5	2.00	1,29	
Total Xylenes*	7.32	0.600	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	11,1	1.20	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 :	% 73.6-14	0						
Chloride, SM4500Cl-B	mg	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/22/2016	ND	400	100	400	0.00	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	392	10.0	06/23/2016	ND	219	110	200	1.46	
DRO >C10-C28	2780	10.0	06/23/2016	ND	225	113	200	1.77	
Surrogate: 1-Chlorooctane	152	% 35-147	,						
Surrogate: 1-Chlorooctadecane	122	% 28-171							

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-4 1' (H601357-11)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	106	5.00	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	382	5.00	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	107	5.00	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	332	15.0	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	927	30.0	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	9700	50.0	06/23/2016	ND	219	110	200	1.46	
DRO >C10-C28	12800	50.0	06/23/2016	ND	225	113	200	1.77	
Surrogate: 1-Chlorooctane	709	% 35-147	,						

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Surrogate: 1-Chlorooctadecane

223 %

28-171

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-4 2' (H601357-12)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	44.3	5.00	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	180	5.00	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	58.9	5.00	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	188	15.0	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	471	30.0	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 73.6-14	0						
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	6370	50.0	06/23/2016	ND	219	110	200	1.46	
DRO >C10-C28	9950	50.0	06/23/2016	ND	225	113	200	1.77	
Surrogate: 1-Chlorooctane	512	% 35-147	6						
Surrogate: 1-Chlorooctadecane	219	% 28-171							

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-4 3' (H601357-13)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.106	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	0.202	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	<0.150	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	0.308	0.300	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.0	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2016	ND	219	110	200	1.46	
DRO >C10-C28	<10.0	10.0	06/23/2016	ND	225	113	200	1.77	
Surrogate: 1-Chlorooctane	106 9	% 35-147							
Surrogate: 1-Chlorooctadecane	97.4	% 28-171							

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-4 4' (H601357-14)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	<0.050	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	<0.050	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	<0.150	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	<0.300	0.300	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.7	% 73.6-14	0						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/23/2016	ND	189	94.5	200	7.04	
DRO >C10-C28	<10.0	10.0	06/23/2016	ND	185	92.4	200	8.20	
Surrogate: 1-Chlorooctane	95.7	% 35-147	7						
Surrogate: 1-Chlorooctadecane	96.5	% 28-171	1						

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Received:	06/22/2016	Sampling Date:	06/21/2016
Reported:	06/28/2016	Sampling Type:	Soil
Project Name:	LYNCH STATION	Sampling Condition:	** (See Notes)
Project Number:	702034.004.01	Sample Received By:	Celey D. Keene
Project Location:	32.521780103.524648		

Sample ID: S-4 5' REFUSAL (H601357-15)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.135	0.050	06/27/2016	ND	1.95	97.3	2.00	0.960	
Toluene*	0.930	0.050	06/27/2016	ND	1.83	91.6	2.00	1.23	
Ethylbenzene*	0.465	0.050	06/27/2016	ND	1.73	86.5	2.00	1.29	
Total Xylenes*	1.61	0.150	06/27/2016	ND	5.32	88.7	6.00	1.25	
Total BTEX	3.14	0.300	06/27/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 73.6-14	0						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12.4	10.0	06/23/2016	ND	189	94.5	200	7.04	
DRO >C10-C28	79.3	10.0	06/23/2016	ND	185	92.4	200	8.20	
Surrogate: 1-Chlorooctane	89.3	% 35-147	,						
Surrogate: 1-Chlorooctadecane	97.7	% 28-171							

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
÷.	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manager: 5, Hitch Colk	P.O. #:		
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476