

talonlpe.com • 866.742.0742



Closure Report
Alpha Crude Connector, LLC
[2RP-3557]

March 22, 2016

Prepared By:

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

Prepared For:

Alpha Crude Connector, LLC

Ms. Heather Patterson
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Remedial Activities and Closure Report**
Alpha Crude Connector, LLC
Holly Station *2RP-3543*

Dear Ms. Patterson,

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 incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The ACC Holly Station is located approximately thirty-three (33) miles south of Carlsbad, New Mexico. The legal location for this facility is Unit Letter D, Section 7, Township 26 South and Range 28 East in Eddy County, New Mexico. More specifically the latitude and longitude are 32.063649 North and -103.133900 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 Reeves-Regan loams 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 greater than 50 feet below ground surface (BGS). Therefore the ranking for this site is a **10** based on the following:

Depth to ground water	>50'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

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

Incident Description and Initial Remedial Actions

On February 11, 2016 oil was released from a pump resulting in a loss of approximately 100bbls of crude oil. The release was discovered the morning of February 12, 2016. The oil flowed from the pumping equipment through the south through the station and into the pasture on the southeast corner of the station. Vacuum trucks were immediately dispatched to the site to recover the standing fluid. Approximately 40bbls of oil were recovered. Talon also mobilized personnel to the site to contain the release and begin excavating contaminated soil with the approval of NMOCD. Once excavation activities were complete confirmation soil samples were taken to insure that the remaining soil was below NMOCD RRAL's. The results of the confirmation sample are summarized in the table below.

Laboratory Results (Confirmation Sampling)

See [Appendix V](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	2	ND	128	ND	ND
S-2	2	1.27	48	ND	23.3
S-3	2	ND	32	ND	ND
S-4	3	ND	--	ND	ND
S-5	3	16.8	--	208	592
S-6	3	11.8	--	73.8	84.3
S-7	2	ND	288	ND	158

(--) Analyte Not Tested

(ND) Analyte Not Detected

Conclusions and Remedial Actions Taken

- The impacted area was excavated to depths between 2-feet and 3-feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Confirmation soil samples were taken to insure that the remaining soil was below NMOCD RRAL's.
- The results of the confirmation soil samples were presented to NMOCD and on March 10, 2016 permission to backfill the site was granted.
- The backfilled area in the pasture was seeded with BLM #1 per New Mexico State Land Office stipulations. A seed label is attached in [Appendix IV](#).

Closure


On behalf of Alpha Crude Connector, LLC we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE


Sheldon Hitchcock
Project Manager

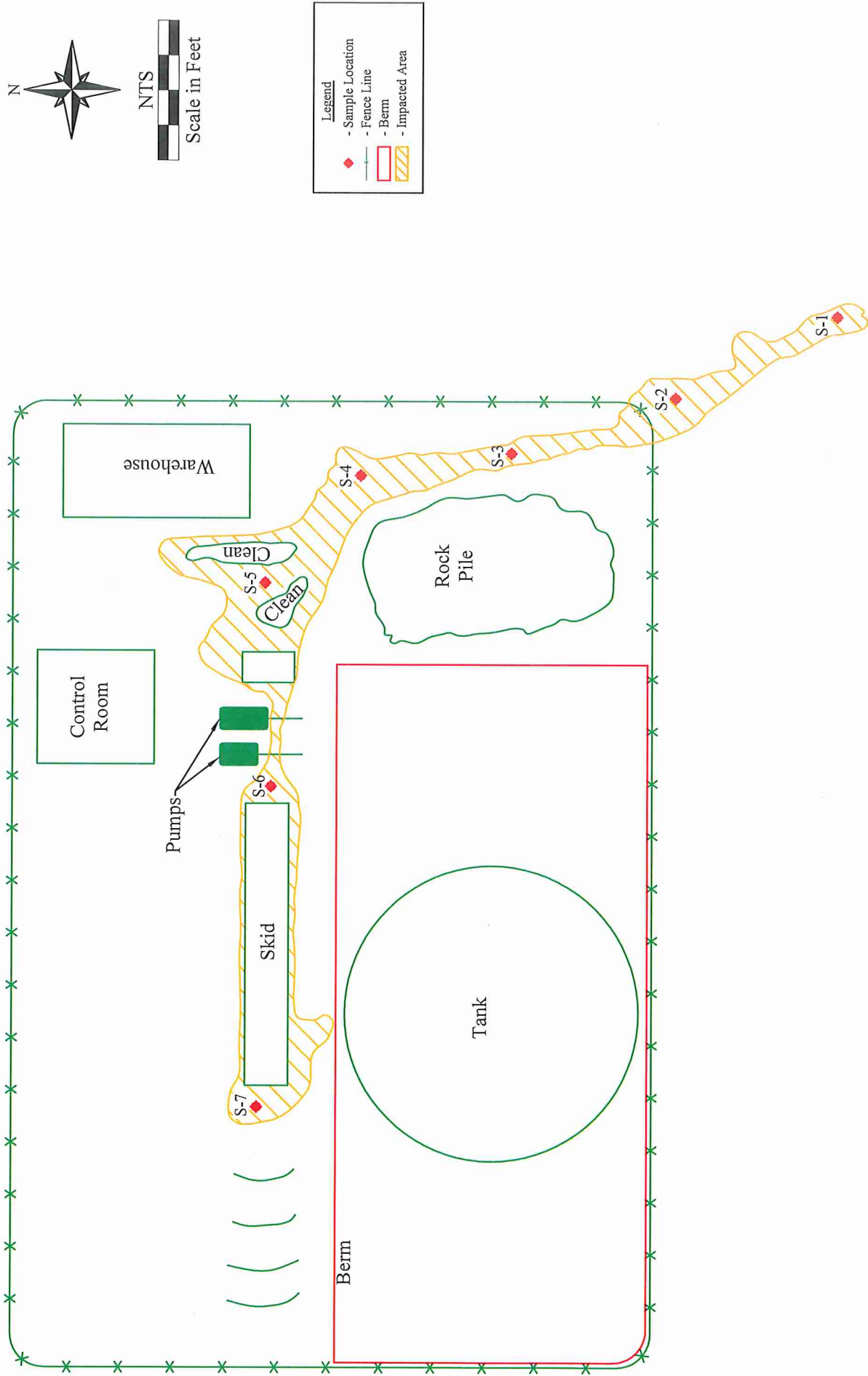

David J. Adkins
District Manager

Attachments

Appendix I Site Plan
Appendix II Groundwater Data
Appendix III Initial & Final C-141
Appendix IV Seed Label
Appendix V Laboratory Results

APPENDIX I

SITE PLAN



Legend

- Sample Location
- Fence Line
- Berm
- Impacted Area

Holly Station
 Alpha Crude Connector, LLC
 Eddy County, New Mexico
 Figure 1 - Site Plan

Date: 02/18/2016
Scale: NTS
Drawn By: TJS

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.)

(R=POD has
been replaced,
O=orphaned,
C=the file is
closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub- Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02475	CUB	ED		2	4	13	26S	27E		581450	3545252*	2462	100		
C 02478	CUB	ED		2	1	05	26S	28E		583848	3549325*	2598	100		
C 02474	CUB	ED		4	3	02	26S	27E		578964	3548029*	2888	100		
C 02476	CUB	ED		4	1	24	26S	27E		580653	3544032*	3838	150		
C 03836 POD1	C	ED		2	2	4	29	25S	28E	584682	3551934	5116	300	30	270
C 02477	CUB	ED		1	1	03	26S	28E		586687	3549347*	5131	150		
C 01278	C	ED		4	3	28	25S	28E		585470	3551338*	5155	205	90	115

Average Depth to Water: **60 feet**

Minimum Depth: **30 feet**

Maximum Depth: **90 feet**

Record Count: 7

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 581832

Northing (Y): 3547685

Radius: 5500

*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
&
FINAL 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. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

PAB1604936790 Release Notification and Corrective Action

NAB1604937472

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Alpha Crude Connector, LLC **312917** Contact: George Grau
Address: 4200 E Skelly Dr. Ste 400 Tulsa, OK 74135 Telephone No. 817-312-3792
Facility Name: Holly Station Facility Type: Pipeline

Surface Owner: State Mineral Owner: API No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	7	26S	28E					Eddy

Latitude 32.063649 Longitude -104.133900

NATURE OF RELEASE

Type of Release: Crude	Volume of Release: 100bbls	Volume Recovered: 40bbls
Source of Release: Pump	Date and Hour of Occurrence: 2/11/2016	Date and Hour of Discovery: 2/11/2016 4:00 am MST
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Heather Patterson-NMOCD	
By Whom? George Grau-AUC	Date and Hour: 2/12/2016 7:39 am MST 7:55 am (e-mail)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

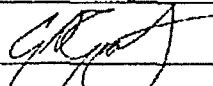
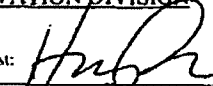
Describe Cause of Problem and Remedial Action Taken.*

Oil was released from a pump during the night of 2/11/16 resulting in a loss of approximately 100bbls of crude oil. The release was discovered on the morning of 2/12/16. Upon discovery of the release the source was repaired and vacuum trucks were dispatched to the site to begin recovering fluid. Approximately 40bbls of crude were recovered.

Describe Area Affected and Cleanup Action Taken.*

The affected area included inside of the Holly Station around the pumping equipment and flowed south through the station and into the pasture for approximately 96-feet. Talon/PE was contacted to respond to the spill and scrape up the heavily impacted soil. The impacted area was excavated and berms were constructed to prevent any further movement of fluid.

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

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: George Grau	Approved by Environmental Specialist: 	
Title: Vice President of Operations	Approval Date: 2/18/16	Expiration Date: N/A
E-mail Address: ggrau@frontierenergylc.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/15/2016	Phone: 817-312-3792	

* Attach Additional Sheets If Necessary

2RP-3557
NM OIL CONSERVATION
ARTESIA DISTRICT
FEB 16 2016
RECEIVED

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

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1220 South St. Francis Dr.
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Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

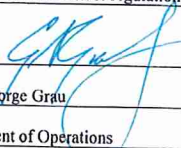
OPERATOR		<input type="checkbox"/> Initial Report	<input checked="" type="checkbox"/> Final Report
Name of Company: Alpha Crude Connector, LLC	Contact: George Grau		
Address: 4200 E Skelly Dr. Ste 400 Tulsa, OK 74135	Telephone No. 817-312-3792		
Facility Name: Holly Station	Facility Type: Pipeline		
Surface Owner: State	Mineral Owner:	API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	7	26S	28E					Eddy

Latitude 32.063649 Longitude -104.133900

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By Whom? George Grau-ACC	Date and Hour: 2/12/2016 7:39 am MST	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Oil was released from a pump during the night of 2/11/16 resulting in a loss of approximately 100bbls of crude oil. The release was discovered on the morning of 2/12/16. Upon discovery of the release the source was repaired and vacuum trucks were dispatched to the site to begin recovering fluid. Approximately 40bbls of crude were recovered.		
Describe Area Affected and Cleanup Action Taken.* The affected area included inside of the Holly Station around the pumping equipment and flowed south through the station and into the pasture for approximately 96-feet. Talon/LPE was contacted to respond to the spill and scrape up the heavily impacted soil. The impacted area was scraped and berms were constructed to prevent any further movement of fluid. The impacted area was excavated to depths between 2-feet and 3-feet BGS. Confirmation soil samples were taken within the excavation and NMOCD approved backfill of the site. The area in the pasture was backfilled with top soil and seeded with BLM #1.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		
Signature: 	OIL CONSERVATION DIVISION	
Printed Name: George Grau	Approved by Environmental Specialist:	
Title: Vice President of Operations	Approval Date:	Expiration Date:
E-mail Address: ggrau@frontierenergyllc.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 3/22/2016	Phone: 817-312-3792	

* Attach Additional Sheets If Necessary

APPENDIX IV

SEED LABEL

4500 North Prince
Clovis, NM 88101
Phone: (575) 762-4759
www.curtisseed.com

3/16/16

Rh Rh
BS

Lot#: M-13495

<u>Item</u>	<u>Origin</u>	<u>Purity</u>	<u>Germ</u>	<u>Dormant</u>	<u>Total Germination</u>	<u>Test Date</u>	<u>Total P.L.S Pounds</u>
Blue Grama VNS	New Mexico	17.61%	88.00%	2.00%	90.00%	10/15	3.00
Sand Dropseed VNS	New Mexico	11.01%	23.00%	73.00%	96.00%	11/15	2.00
Sideoats Grama El Reno	Texas	53.91%	98.00%	0.00%	98.00%	09/15	10.00
Other Crop:	0.21%	There Are 1 Bags For This Mix			Total Bulk Pounds:		19
Weed Seed:	0.28%	This Bag Weighs 18.93 Bulk Pounds					
Inert Matter:	16.98%	Use This Bag For 1 Acres					

APPENDIX V

LABORATORY RESULTS



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

February 26, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HOLLY STATION

Enclosed are the results of analyses for samples received by the laboratory on 02/25/16 9:45.

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 accredited 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,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/25/2016
Reported: 02/26/2016
Project Name: HOLLY STATION
Project Number: 702034.001.01
Project Location: NONE GIVEN

Sampling Date: 02/23/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 2' (H600419-01)

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	02/25/2016	ND	1.94	97.1	2.00	1.27	
Toluene*	<0.050	0.050	02/25/2016	ND	1.90	95.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	02/25/2016	ND	1.74	87.0	2.00	1.71	
Total Xylenes*	<0.150	0.150	02/25/2016	ND	5.33	88.8	6.00	1.06	
Total BTEX	<0.300	0.300	02/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	02/25/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/25/2016	ND	208	104	200	3.32	
DRO >C10-C28	<10.0	10.0	02/25/2016	ND	224	112	200	3.37	

Surrogate: 1-Chlorooctane 100 % 35-147

Surrogate: 1-Chlorooctadecane 90.8 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 02/25/2016
Reported: 02/26/2016
Project Name: HOLLY STATION
Project Number: 702034.001.01
Project Location: NONE GIVEN

Sampling Date: 02/23/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' (H600419-02)

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	02/25/2016	ND	1.94	97.1	2.00	1.27	
Toluene*	0.069	0.050	02/25/2016	ND	1.90	95.2	2.00	1.75	
Ethylbenzene*	0.105	0.050	02/25/2016	ND	1.74	87.0	2.00	1.71	
Total Xylenes*	1.09	0.150	02/25/2016	ND	5.33	88.8	6.00	1.06	
Total BTEX	1.27	0.300	02/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/25/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	02/25/2016	ND	208	104	200	3.32	
DRO >C10-C28	23.3	10.0	02/25/2016	ND	224	112	200	3.37	

Surrogate: 1-Chlorooctane 89.1 % 35-147

Surrogate: 1-Chlorooctadecane 93.4 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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 SM4500Cl-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

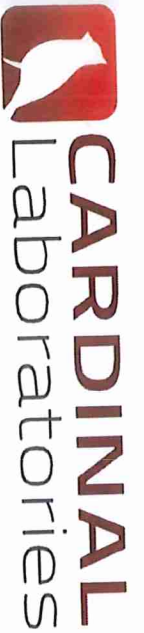
Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:							
Project Manager: S. Hitchcock		Company: Talon/LPE							
Address: 408 W. Texas Ave.		Attn:							
City: Artesia		State: NM Zip: 88210							
Phone #: 575-746-8768		Fax #: 575-746-8905							
Project #: 702034.04.01		Project Owner: ACC							
Project Name: Holly Station		City:							
Project Location:		State: Zip:							
Sample Name: S. Hitchcock		Phone #:							
Fax #:		PRESERV							
FOR LAB USE ONLY		SAMPLING							
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	DATE	TIME	TPH	BTEX	Chlorides
H000419	1 5-1 2'	G	1	GROUNDWATER	2/23/16	12:30	/	/	/
	2 5-2 2'	G	1	WASTEWATER	2/23/16	12:32	/	/	/
				SOIL					
				OIL					
				SLUDGE					
				OTHER :					
				ACID/BASE:					
				ICE / COOL					
				OTHER :					
Relinquished By: <u>Stacy Peris</u>		Date: <u>2/23/16</u>		Received By: <u>Chad A.</u>		Time: <u>2:45</u>		Sample Condition	
Relinquished By: <u>Stacy Peris</u>		Date: <u>2/23/16</u>		Received By: <u>Chad A.</u>		Time: <u>2:45</u>		Cool Intact	
Delivered By: (Circle One)		Sample Condition		CHECKED BY: <u>Chad A.</u>		Initials		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Sampler - UPS - Bus - Other:		Sample Condition		CHECKED BY: <u>Chad A.</u>		Initials		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Addtl Phone #:		Addtl Fax #:		REMARKS: <u>RUSH</u>					

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

March 02, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HOLLY STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/01/16 10:30.

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Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/01/2016	Sampling Date:	02/29/2016
Reported:	03/02/2016	Sampling Type:	Soil
Project Name:	HOLLY STATION	Sampling Condition:	Cool & Intact
Project Number:	702034.001.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-3 2' (H600450-01)

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	03/01/2016	ND	2.04	102	2.00	0.201	
Toluene*	<0.050	0.050	03/01/2016	ND	1.99	99.4	2.00	0.695	
Ethylbenzene*	<0.050	0.050	03/01/2016	ND	1.81	90.4	2.00	0.861	
Total Xylenes*	<0.150	0.150	03/01/2016	ND	5.57	92.8	6.00	0.514	
Total BTEx	<0.300	0.300	03/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	03/01/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/01/2016	ND	192	96.0	200	2.66		
DRO >C10-C28	<10.0	10.0	03/01/2016	ND	219	109	200	10.3		

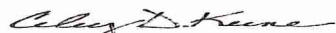
Surrogate: 1-Chlorooctane 96.6 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/01/2016	Sampling Date:	02/29/2016
Reported:	03/02/2016	Sampling Type:	Soil
Project Name:	HOLLY STATION	Sampling Condition:	Cool & Intact
Project Number:	702034.001.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-4 2' (H600450-02)

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	03/01/2016	ND	2.04	102	2.00	0.201	
Toluene*	0.090	0.050	03/01/2016	ND	1.99	99.4	2.00	0.695	
Ethylbenzene*	<0.050	0.050	03/01/2016	ND	1.81	90.4	2.00	0.861	
Total Xylenes*	0.208	0.150	03/01/2016	ND	5.57	92.8	6.00	0.514	
Total BTEX	<0.300	0.300	03/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/01/2016	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: MS					


Surrogate: 1-Chlorooctane 83.9 % 35-147

Surrogate: 1-Chlorooctadecane 158 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/01/2016
Reported: 03/02/2016
Project Name: HOLLY STATION
Project Number: 702034.001.01
Project Location: NONE GIVEN

Sampling Date: 02/29/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 2' (H600450-03)

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	03/01/2016	ND	2.04	102	2.00	0.201		
Toluene*	<0.050	0.050	03/01/2016	ND	1.99	99.4	2.00	0.695		
Ethylbenzene*	<0.050	0.050	03/01/2016	ND	1.81	90.4	2.00	0.861		
Total Xylenes*	<0.150	0.150	03/01/2016	ND	5.57	92.8	6.00	0.514		
Total BTEX	<0.300	0.300	03/01/2016	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1010	16.0	03/01/2016	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	03/01/2016	ND	192	96.0	200	2.66		
DRO >C10-C28	4590	10.0	03/01/2016	ND	219	109	200	10.3		


Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 142 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	03/01/2016	Sampling Date:	02/29/2016
Reported:	03/02/2016	Sampling Type:	Soil
Project Name:	HOLLY STATION	Sampling Condition:	Cool & Intact
Project Number:	702034.001.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-6 2' (H600450-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.092	0.050	03/01/2016	ND	2.04	102	2.00	0.201	
Toluene*	0.943	0.050	03/01/2016	ND	1.99	99.4	2.00	0.695	
Ethylbenzene*	0.301	0.050	03/01/2016	ND	1.81	90.4	2.00	0.861	
Total Xylenes*	2.58	0.150	03/01/2016	ND	5.57	92.8	6.00	0.514	
Total BTEX	3.91	0.300	03/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	03/01/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	44.5	10.0	03/01/2016	ND	192	96.0	200	2.66	
DRO >C10-C28	3750	10.0	03/01/2016	ND	219	109	200	10.3	

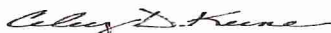
Surrogate: 1-Chlorooctane 98.7 % 35-147

Surrogate: 1-Chlorooctadecane 136 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/01/2016
 Reported: 03/02/2016
 Project Name: HOLLY STATION
 Project Number: 702034.001.01
 Project Location: NONE GIVEN

 Sampling Date: 02/29/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-7 2' (H600450-05)

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	03/01/2016	ND	2.04	102	2.00	0.201	
Toluene*	<0.050	0.050	03/01/2016	ND	1.99	99.4	2.00	0.695	
Ethylbenzene*	<0.050	0.050	03/01/2016	ND	1.81	90.4	2.00	0.861	
Total Xylenes*	<0.150	0.150	03/01/2016	ND	5.57	92.8	6.00	0.514	
Total BTEX	<0.300	0.300	03/01/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/01/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/01/2016	ND	192	96.0	200	2.66	
DRO >C10-C28	158	10.0	03/01/2016	ND	219	109	200	10.3	

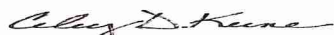
Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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 SM4500Cl-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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Talon/LPE

Project Manager: S. H. Chack

Address: 408 W. Texas Ave.

City: Artesia State: NM Zip: 88210

Phone #: 575-746-8768 Fax #: 575-746-8905

Project #: Project Owner: ACC

Project Location: Kelly Station

Sample Name: S. H. Chack

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H100450

5-3 2'

5-4 2'

5-5 2'

5-6 2'

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P.O. #:

Company: Talon/LPE

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

DATE

TIME

TPH

BTEX

Chlorides

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March 07, 2016

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HOLLY STATION

Enclosed are the results of analyses for samples received by the laboratory on 03/04/16 14:15.

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 accredited 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. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/04/2016
Reported: 03/07/2016
Project Name: HOLLY STATION
Project Number: 702034.001.01
Project Location: NONE GIVEN

Sampling Date: 03/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 3' (H600486-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/04/2016	ND	1.94	96.9	2.00	4.20	
Toluene*	<0.050	0.050	03/04/2016	ND	1.89	94.5	2.00	5.36	
Ethylbenzene*	<0.050	0.050	03/04/2016	ND	1.71	85.5	2.00	5.61	
Total Xylenes*	<0.150	0.150	03/04/2016	ND	5.27	87.9	6.00	5.93	
Total BTEX	<0.300	0.300	03/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/04/2016	ND	190	95.0	200	5.89	
DRO >C10-C28	<10.0	10.0	03/04/2016	ND	206	103	200	6.70	

Surrogate: 1-Chlorooctane 96.2 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/04/2016
Reported: 03/07/2016
Project Name: HOLLY STATION
Project Number: 702034.001.01
Project Location: NONE GIVEN

Sampling Date: 03/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 3' (H600486-02)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.492	0.050	03/04/2016	ND	1.94	96.9	2.00	4.20	
Toluene*	4.86	0.050	03/04/2016	ND	1.89	94.5	2.00	5.36	
Ethylbenzene*	1.55	0.050	03/04/2016	ND	1.71	85.5	2.00	5.61	
Total Xylenes*	9.86	0.150	03/04/2016	ND	5.27	87.9	6.00	5.93	
Total BTEX	16.8	0.300	03/04/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	208	10.0	03/04/2016	ND	190	95.0	200	5.89	
DRO >C10-C28	592	10.0	03/04/2016	ND	206	103	200	6.70	

Surrogate: 1-Chlorooctane 97.2 % 35-147

Surrogate: 1-Chlorooctadecane 96.8 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 03/04/2016
Reported: 03/07/2016
Project Name: HOLLY STATION
Project Number: 702034.001.01
Project Location: NONE GIVEN

Sampling Date: 03/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 3' (H600486-03)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.10	0.050	03/05/2016	ND	1.94	96.9	2.00	4.20	
Toluene*	4.24	0.050	03/05/2016	ND	1.89	94.5	2.00	5.36	
Ethylbenzene*	0.791	0.050	03/05/2016	ND	1.71	85.5	2.00	5.61	
Total Xylenes*	5.69	0.150	03/05/2016	ND	5.27	87.9	6.00	5.93	
Total BTEX	11.8	0.300	03/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	73.8	10.0	03/04/2016	ND	190	95.0	200	5.89	
DRO >C10-C28	84.3	10.0	03/04/2016	ND	206	103	200	6.70	

Surrogate: 1-Chlorooctane 96.4 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

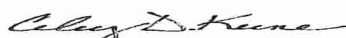
Notes and Definitions

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 SM4500Cl-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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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Feb 10th

[illegible]