

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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.

2RP-2108

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Enterprise Field Services LLC	Contact	Alena Miro
	PO Box 4324, Houston, TX 77252	Telephone No.	575-628-6802
Facility Name	Pipeline ROW, Line A6	Facility Type:	Gas-gathering Pipeline
Surface Owner	BLM	Mineral Owner	NA
		Lease No.	NA

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	2	25S	26E					Eddy

Latitude: N 32.152816 Longitude: W -104.265599

NATURE OF RELEASE

Type of Release	Natural Gas	Volume of Release	65116 MCF, 40 BBL Pipeline Liquids	Volume Recovered:	NatGas - 0 Liquids - none
Source of Release	Suspected corrosion leak.	Date and Hour of Occurrence	11/27/2013 15:00-17:00 MST	Date and Hour of Discovery	11/27/2013 15:00 MST
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Randy Dade, NMOCD Region 2		
By Whom?	Jim Heap (EPROD)	Date and Hour	11/27/2013 @ 17:20 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.*

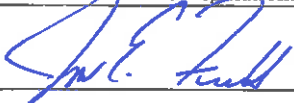

Describe Cause of Problem and Remedial Action Taken.*

Suspected corrosion leak. All gas was lost to atmosphere. Liquids were released to surface. BLM was notified.

Describe Area Affected and Cleanup Action Taken.*

Soil remediation activities are outlined in the attached report.

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:	Jon E. Fields	Approved by District Supervisor:			
Title:	Director - Field Environmental	Approval Date:	4/17/2023	Expiration Date:	
E-mail Address:	jefields@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>		
Date:	4/11/17	Phone:	713-381-6595		

* Attach Additional Sheets If Necessary

talonlpe.com • 866.742.0742



Closure Report
Enterprise Field Services, LLC: Line A-6 (Marquardt)
[2RP-2108]

April 12, 2017

Prepared For:
Ms. Alena Miro
Enterprise Field Services, LLC
PO Box 4342
Houston, TX 77252

Prepared By:
Talon/LPE
408 W. Texas Ave.
Artesia, NM 88210

Table of Contents

1.0 Introduction	1
1.1 Objectives and Site Background	1
2.0 Regulatory Framework	1
2.1 NMOCD Site Ranking Criteria	1
2.2 Remedial Action Levels for Soil	2
3.0 Site Area Description	2
3.1 Soil Description	2
3.2 Ground Water Depth and Wellhead Distance	2
3.3 Surface Water Distance	2
3.4 Site Ranking Conclusion	2
4.0 Incident Information	3
4.1 Incident Description	3
5.0 Remediation Activities	3
5.1 Excavation Activities	3
5.2 Soil Sampling	3
5.3 Backfill and Site Grading Activities	4
6.0 Conclusions and Recommendations	4
6.1 Conclusions	4
6.2 Recommendations	5

1.0 Introduction

1.1 Objectives and Site Background

Enterprise Field Services, LLC (Enterprise) has contracted Talon/LPE (Talon) to perform initial spill response, soil sampling and remediation services at the previously referenced location. The regulatory framework, site description, incident description, soil sampling results, remediation activities, conclusions and recommendations are submitted herein.

The Line A-6 is located approximately twenty-five (25) miles southwest of Carlsbad, New Mexico. The legal location for this release is Unit Letter N, Section 2, Township 25 South and Range 26 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.152816 and -104.265599 West. A site plan is presented in [Appendix I](#).

2.0 Regulatory Framework

2.1 NMOCD Site Ranking Criteria

NMOCD guidance document titled: *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993. Consistent with these guidelines, general site characteristics, including the depth to groundwater, and the distance to water wells or surface water sources will be utilized to determine the appropriate “ranking” of individual release sites and the associated remedial action requirements. The site ranking criteria and associated scoring values, based on the 1993 guidance, are summarized in the following Table.

Ranking Criteria		Ranking Score
Depth to Groundwater	<50'	20
	50-99'	10
	>100'	0
Wellhead Protection Area <1,000' from a water source, or 200' from private domestic water source.	Yes	20
	No	0
Distance to Surface Water Body	<200'	20
	200' to 1,000'	10
	>1,000'	0

2.2 Remedial Action Levels for Soil

From the NMOCD guidance document *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993. The total ranking score determines the degree of remediation that may be required on a site specific basis. The total ranking score is the sum of all four individual ranking criteria. The Recommended Remedial Action Level's (RRAL's) based on total site ranking are summarized in the table below.

Constituent	Site Ranking >19	Site Ranking 10	Site Ranking 0
Benzene	10 mg/kg	10 mg/kg	10 mg/kg
Total BTEX	50 mg/kg	50 mg/kg	50 mg/kg
TPH	100 mg/kg	1,000 mg/kg	5,000 mg/kg

Though not mentioned in the NMOCD guidance document *Guidelines for Remediation of Leaks, Spills and Releases*, dated August 13, 1993. The recommended remedial action level for Total Chloride concentration in NMOCD District 2 is 1,000 mg/kg regardless of depth to groundwater.

3.0 Site Area Description

3.1 Soil Description

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Service (NRCS), the soil in this area is made up of the Reeves-Gypsum land complex with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

3.2 Ground Water Depth and Wellhead Distance

The New Mexico State Engineer database indicates that ground water in the project vicinity is at a depth of 43-feet below ground surface (BGS). The nearest water well to this site is well (C-1089) is 6,240-feet from the site. See [Appendix III](#) for the referenced groundwater data and well data.

3.3 Surface Water Distance

The nearest surface water body is Black River. The nearest bank of the river is approximately 1.1 miles north of the site. See [Appendix II](#) for area maps.

3.4 Site Ranking Conclusion

Based on the information provided in the above sections it is concluded that the ranking for this site is 20. Therefore NMOCD RRAL's for this incident should be consistent with the description in section 2.2.

4.0 Incident Information

4.1 Incident Description

On November 27, 2013, a leak was discovered on the A-6 pipeline. The line was shut in and excavated for repair. The leak resulted in the loss of 40bbls of pipeline liquids. Upon issuance of New Mexico State Land Office (NMSLO) Right of Entry permit (ROE) soil remediation activities began.

5.0 Remediation Activities

5.1 Excavation Activities

A trench was dug to expose the pipeline and facilitate replacement of the affected portion of pipe. Following the repair, the excavation was expanded using visual observations, PID readings, and field chloride titrations to guide the expansion.

5.2 Soil Sampling

Following excavation activities soil samples were collected from the bottom and sidewalls of the excavation the analytical results from the soil sampling are summarized in the tables below. Laboratory Analytical Reports and Chain of Custody Documentation can be found in [Appendix V](#).

February 12, 2014

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
S-1	0	<0.10	7.11	<16.0	5,928
S-2	Sidewall	<1.00	43.2	272	20,430
S-3	Sidewall	<0.050	1.42	112	24,500
S-4	4	<0.200	12.5	240	26,352
S-5	Sidewall	<0.050	<0.300	<16.0	126
S-6	Sidewall	<0.300	<0.300	96	98.6
S-7	Sidewall	0.061	12.5	64	16,197

March 10, 2014

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
S-1	4	<0.050	<0.300	--	<10.0
S-2	Sidewall	<0.050	<0.300	--	<10.0
S-3	Sidewall	<0.050	<0.300	--	112
S-4	5	<0.050	<0.300	--	<10.0
S-7	Sidewall	<0.050	<0.300	--	<10.0
S-8	Sidewall	<0.050	<0.300	--	<10.0
S-9	Sidewall	<0.050	<0.300	--	<10.0
S-10	Sidewall	<0.050	1.66		505.3

March 19, 2014

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
S-10	Sidewall	<0.050	<0.300	--	<10.0

5.3 Backfill and Site Grading Activities

Following receipt of analytical results from the soil sampling events the site was backfilled with top soil and contoured to match the surrounding terrain.

6.0 Conclusions and Recommendations

6.1 Conclusions

- The site was excavated utilizing field chloride titrations and PID readings to guide the extent of the excavation.
- Soil samples were taken from the bottom and sidewalls of the excavation and analyzed for TPH, BTEX, and total chlorides.
- Analytical data indicated that all of the sample locations with the exception of S-3 were below NMOCD RRAL's.
- Sample location S-3 was 12 mg/kg above NMOCD RRAL for TPH.

6.2 Recommendations


Based on the analytical results from the soil sampling events and the minimal risk associated with the additional 12 mg/kg of TPH at S-3 it is recommended that no further actions be required and that closure with regard to this release be granted.

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


Sheldon Hitchcock
Project Manager


David J. Adkins
District Manager

Attachments

Appendix I Site Plan
Appendix II Area Maps
Appendix III Groundwater and Well Data
Appendix IV Initial C-141
Appendix V Laboratory Results

APPENDIX I

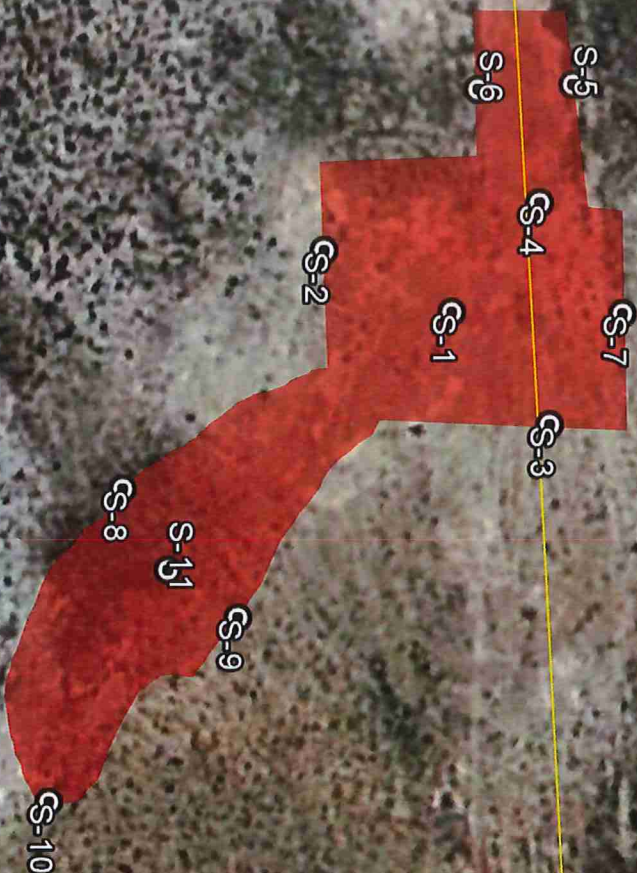
SITE PLAN

Line A-6

Enterprise Products Operating, LLC

Legend

- Enterprise- Line A-6
- Excavated Area
- Pipeline
- Sample Location



Enterprise

Google Earth

9/2/2010 3:08:17

41° 62' 54" N 102° 21' 40" W 100 ft

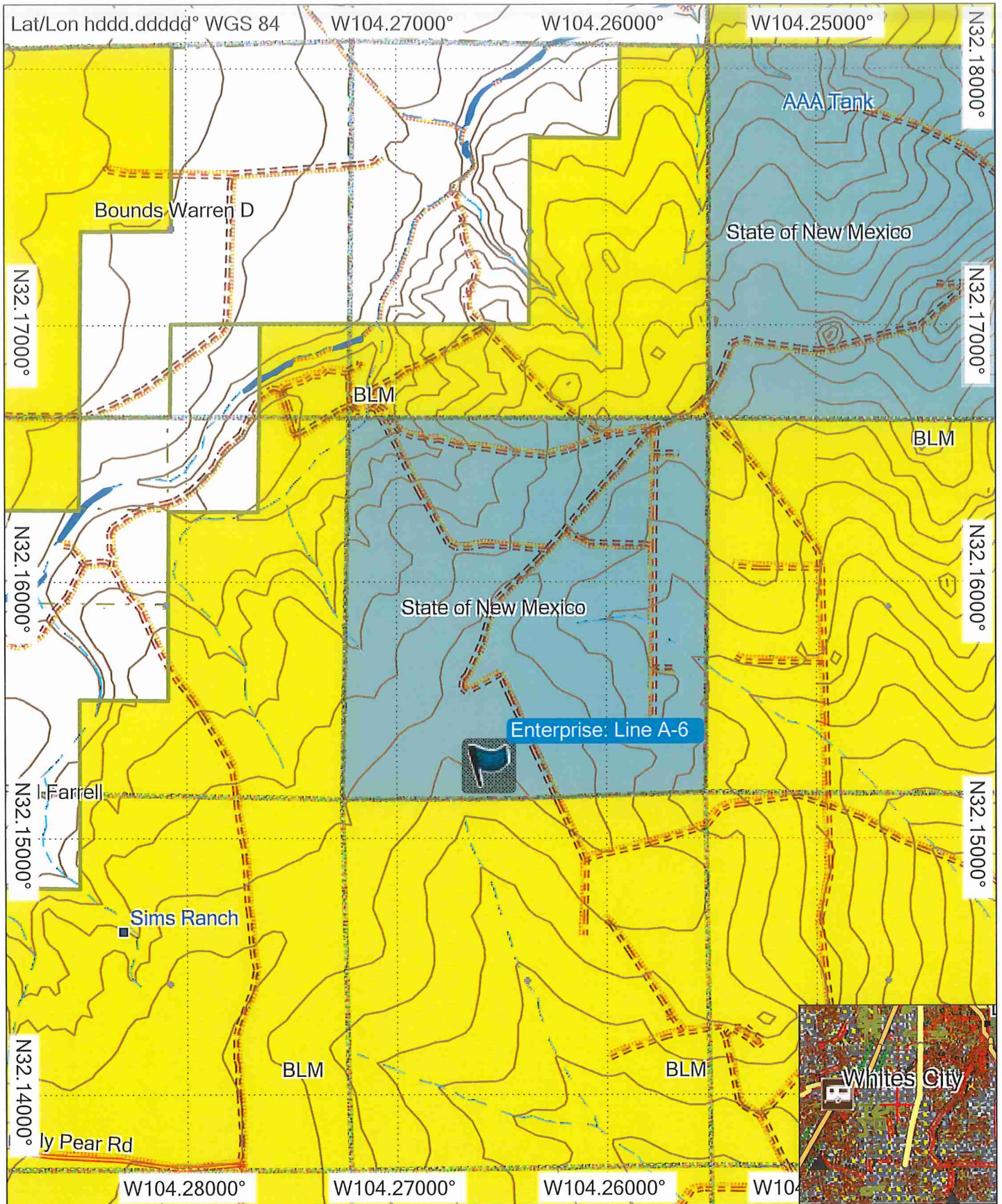
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APPENDIX II

AREA MAPS

A yellow pushpin is pinned to the top left corner of the page.

Page 12 of 46



NM_PLAT4GPS
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gps_mapper
©2015 onXmaps, Inc.

10/21/2016 10:48:50 AM

0 mi 0.25 mi 0.5 mi 0.75 mi 1 mi

GARMIN.

TN MN
8.0°
1/1/2010

APPENDIX III

GROUNDWATER AND WELL 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 01089	C		ED	3	4	1	03	25S	26E	567505	3558398*	1846	96	45	51
C 03200 POD1	C		ED	2	3	4	34	24S	26E	568206	3559349	1951	80	52	28
C 03569 POD1	CUB		ED	2	1	1	14	25S	26E	568862	3555746	1955	30	0	30
C 00819	C		ED		4	4	26	24S	26E	570022	3560935*	3364	62	42	20
C 02675	C		ED	1	4	1	09	25S	26E	565907	3556978*	3368	180	45	135
C 01368	C		ED		1	1	22	25S	26E	567261	3554059*	4101	143	118	25
C 00792	C		ED		4	2	27	24S	26E	568397	3561747*	4153	70	30	40
C 03654 POD1	CUB		ED	2	3	1	24	25S	26E	570654	3553773	4160			
C 03655 POD3	CUB		ED	1	4	4	22	25S	26E	568458	3553019	4712			
C 00262 POD2	C		ED	4	3	1	24	24S	26E	570234	3562337	4778	45	18	27

Average Depth to Water: 43 feet

Minimum Depth: 0 feet

Maximum Depth: 118 feet

Record Count: 10

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 569203

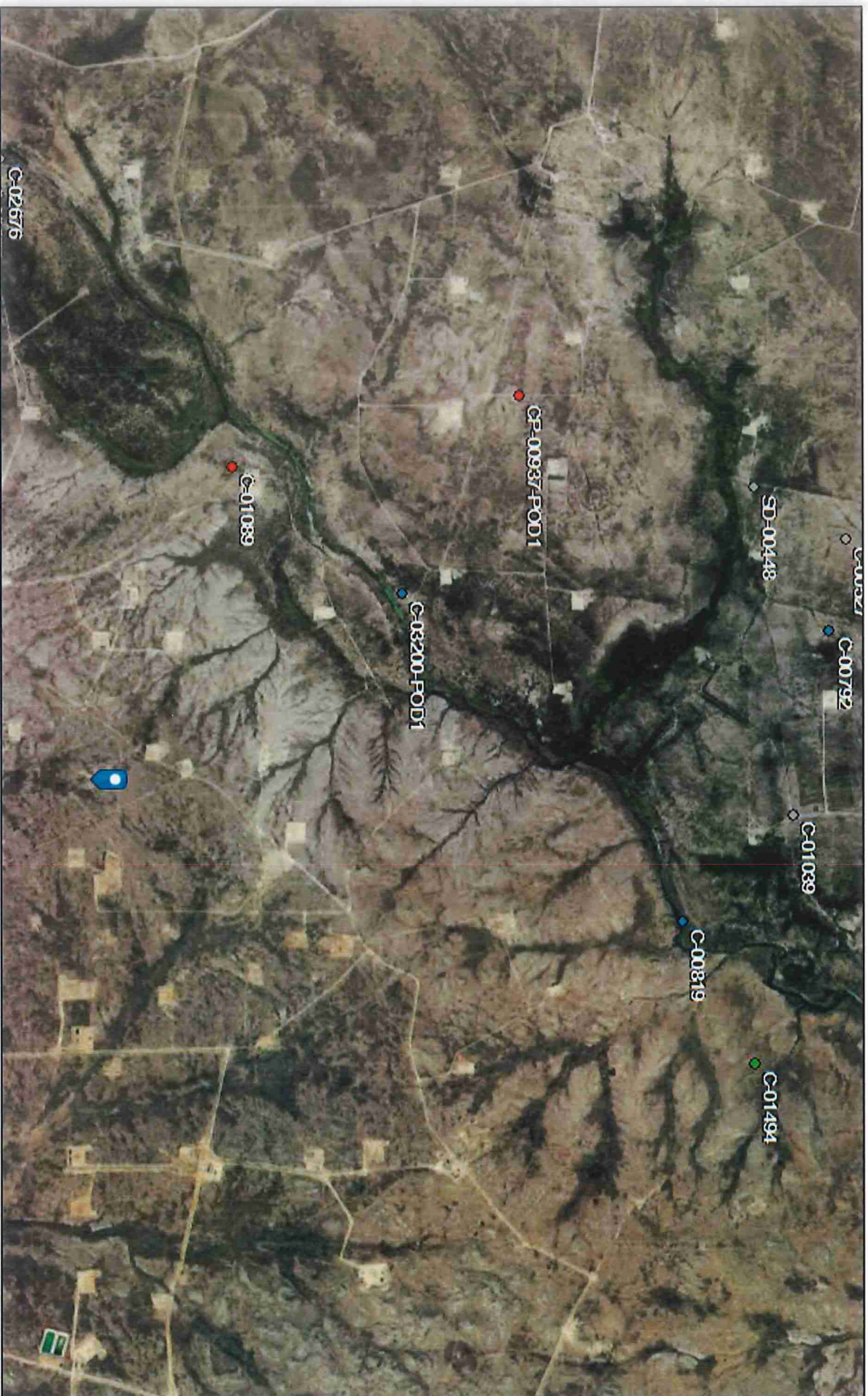
Northing (Y): 3557672

Radius: 5000

*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.

USE Well Locations



April 7, 2017

OSE Wells

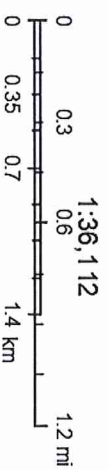
Other

ACT

PEN

PLG

OSE District Boundary



Esri HERE DeLorme, MapmyIndia, © OpenStreetMap contributors, and the
Esri HERE DeLorme, MapmyIndia, © OpenStreetMap contributors, and the

APPENDIX IV INITIAL C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
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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.

Release Notification and Corrective Action

nJMW1334640687 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company	Enterprise Field Services LLC 1000347	Contact	Jim Heap
	PO Box 4324, Houston, TX 77252	Telephone No.	432-686-5404
Facility Name	Pipeline ROW, Line A6 (S2-T25S-R26E)	Facility Type:	Gas-gathering Pipeline

Surface Owner	BLM	Mineral Owner	NA	Lease No.	NA
---------------	-----	---------------	----	-----------	----

Facility Name: (S2-T25S-R26E) **LOCATION OF RELEASE**

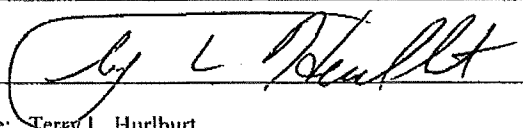
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	2	25S	26E					Eddy

Latitude: N 32.152816 Longitude: W -104.265599

NATURE OF RELEASE

Type of Release	Natural Gas	Volume of Release	65116 MCF, 40 BBL Pipeline Liquids	Volume Recovered:	NatGas - 0 Liquids - TBD
Source of Release	Suspected corrosion leak.	Date and Hour of Occurrence	11/27/2013 15:00-17:00 MST	Date and Hour of Discovery	11/27/2013 15:00 MST
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Randy Dade, NMOCD Region 2			
By Whom?	Jim Heap (EPROD)	Date and Hour	11/27/2013 @ 17:20 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.*					<div style="border: 2px solid black; padding: 5px; text-align: center;"> RECEIVED DEC 11 2013 NMOCD ARTESIA </div>
Describe Cause of Problem and Remedial Action Taken.* Suspected corrosion leak. All gas was lost to atmosphere. Liquids were released to surface. Full volume will be determined after clean-up. BLM has been notified.					
Describe Area Affected and Cleanup Action Taken.* To be determined.					

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: Terry L. Hurlburt		Approved by District Supervisor:	
Title: Group Sr. Vice President	Approval Date:	Expiration Date:	
E-mail Address: snolan@eprod.com	Conditions of Approval: Remediation per OCD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION		Attached <input type="checkbox"/>
Date: 12/5/2013	Phone: 713-381-6595	PROPOSAL NO LATER THAN: January 12, 2013	

* Attach Additional Sheets If Necessary

fJMW1334640231

iJMW1334641127

2RP-2108

APPENDIX V

LABORATORY RESULTS



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

February 14, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARQUARDT LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 02/13/14 16:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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,

Caley D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2014	Sampling Date:	02/12/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-1 0' (H400439-01)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	1.50	0.100	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	0.720	0.100	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	4.89	0.300	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTEX	7.11	0.600	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 127 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/14/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	118	10.0	02/13/2014	ND	198	98.9	200	12.2	
DRO >C10-C28	5810	10.0	02/13/2014	ND	195	97.5	200	9.27	

Surrogate: 1-Chlorooctane 115 % 65.2-140

Surrogate: 1-Chlorooctadecane 200 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2014	Sampling Date:	02/12/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-2 0' (H400439-02)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	5.66	1.00	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	5.11	1.00	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	32.4	3.00	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTX	43.2	6.00	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 134 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	02/14/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1230	100	02/14/2014	ND	198	98.9	200	12.2	
DRO >C10-C28	19200	100	02/14/2014	ND	195	97.5	200	9.27	

Surrogate: 1-Chlorooctane 201 % 65.2-140

Surrogate: 1-Chlorooctadecane 550 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celest D. Keene

Celest D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2014	Sampling Date:	02/12/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-3 4' (H400439-03)

BTX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	0.069	0.050	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	0.202	0.050	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	1.14	0.150	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTX	1.42	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 134 % 89.4-126

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	02/14/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	02/14/2014	ND	198	98.9	200	12.2	
DRO >C10-C28	24500	100	02/14/2014	ND	195	97.5	200	9.27	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 879 % 63.6-154

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Celest D. Keene

Celest D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2014	Sampling Date:	02/12/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-4 4' (H400439-04)

BTEX 8021B		mg/kg	Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	0.577	0.200	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	1.25	0.200	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	10.7	0.600	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTEX	12.5	1.20	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 156 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/14/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg	Analyzed By: ms					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	352	100	02/14/2014	ND	198	98.9	200	12.2	
DRO >C10-C28	26000	100	02/14/2014	ND	195	97.5	200	9.27	

Surrogate: 1-Chlorooctane 237 % 65.2-140

Surrogate: 1-Chlorooctadecane 1490 % 63.6-154

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2014	Sampling Date:	02/12/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-5 4' (H400439-05)

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	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	<0.050	0.050	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	<0.050	0.050	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTEX	<0.300	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.8 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/14/2014	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	02/14/2014	ND	198	98.9	200	12.2	
DRO >C10-C28	126	10.0	02/14/2014	ND	195	97.5	200	9.27	

Surrogate: 1-Chlorooctane 94.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 63.6-154

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Celest D. Keene

Celest D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2014	Sampling Date:	02/12/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-6 4' (H400439-06)

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	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	<0.050	0.050	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	<0.050	0.050	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	<0.150	0.150	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTEX	<0.300	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIB) 95.1 % 89.4-126

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	02/14/2014	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	02/14/2014	ND	198	98.9	200	12.2	
DRO >C10-C28	98.6	10.0	02/14/2014	ND	195	97.5	200	9.27	

Surrogate: 1-Chlorooctane 89.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.2 % 63.6-154

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	02/13/2014	Sampling Date:	02/12/2014
Reported:	02/14/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

Sample ID: S-7 4' (H400439-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.061	0.050	02/14/2014	ND	2.25	113	2.00	5.84	
Toluene*	0.836	0.050	02/14/2014	ND	2.26	113	2.00	4.05	
Ethylbenzene*	1.31	0.050	02/14/2014	ND	2.23	111	2.00	4.06	
Total Xylenes*	10.3	0.150	02/14/2014	ND	6.57	110	6.00	2.90	
Total BTX	12.5	0.300	02/14/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/14/2014	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: ms						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	297	100	02/14/2014	ND	193	96.6	200	1.28		
DRO >C10-C28	15900	100	02/14/2014	ND	178	88.9	200	4.42		

Surrogate: 1-Chlorooctane 142 % 65.2-140

Surrogate: 1-Chlorooctadecane 577 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

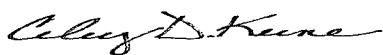
Notes and Definitions

- 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.
- 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



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

March 12, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARQUARDT LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 03/11/14 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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



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Analytical Results For:

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

Received: 03/11/2014
Reported: 03/12/2014
Project Name: MARQUARDT LINE LEAK
Project Number: 700348.153.01
Project Location: S2-T25S-R26E

Sampling Date: 03/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 4' (H400736-01)

BTX 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	03/11/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77	
Total BTX	<0.300	0.300	03/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 99.4 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Analytical Results For:

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

Received:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/12/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	S2-T25S-R26E		

Sample ID: S-2 4' (H400736-02)

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	03/11/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 89.4-126

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	03/11/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/11/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 108 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/11/2014
 Reported: 03/12/2014
 Project Name: MARQUARDT LINE LEAK
 Project Number: 700348.153.01
 Project Location: S2-T25S-R26E

Sampling Date: 03/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 4' (H400736-03)

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	03/11/2014	ND	2.18	109	2.00	2.84		
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07		
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77		
Total BTEX	<0.300	0.300	03/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126

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	03/11/2014	ND	212	106	200	3.49		
DRO >C10-C28	112	10.0	03/11/2014	ND	203	101	200	3.23		

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 128 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/12/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	S2-T25S-R26E		

Sample ID: S-4 4' (H400736-04)

BTX 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	03/11/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77	
Total BTX	<0.300	0.300	03/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 102 % 89.4-126

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	03/11/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/11/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 111 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 03/11/2014
Reported: 03/12/2014
Project Name: MARQUARDT LINE LEAK
Project Number: 700348.153.01
Project Location: S2-T25S-R26E

Sampling Date: 03/10/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 4' (H400736-05)

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	03/11/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	<0.300	0.300	03/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126

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	03/11/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/11/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 97.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

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

Received:	03/11/2014	Sampling Date:	03/10/2014
Reported:	03/12/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	Cool & Intact
Project Number:	700348.153.01	Sample Received By:	Jodi Henson
Project Location:	S2-T25S-R26E		

Sample ID: S-8 3' (H400736-06)

BTX 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	03/11/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77	
Total BTX	<0.300	0.300	03/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.9 % 89.4-126

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	03/11/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/11/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 03/11/2014
 Reported: 03/12/2014
 Project Name: MARQUARDT LINE LEAK
 Project Number: 700348.153.01
 Project Location: S2-T25S-R26E

Sampling Date: 03/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-9 3' (H400736-07)

BTX 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	03/11/2014	ND	2.18	109	2.00	2.84	
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77	
Total BTX	<0.300	0.300	03/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	<10.0	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 112 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Analytical Results For:

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

Received: 03/11/2014
 Reported: 03/12/2014
 Project Name: MARQUARDT LINE LEAK
 Project Number: 700348.153.01
 Project Location: S2-T25S-R26E

Sampling Date: 03/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-10 3' (H400736-08)

BTEX 8021B	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/11/2014	ND	2.18	109	2.00	2.84	
Toluene*	0.081	0.050	03/11/2014	ND	2.06	103	2.00	3.07	
Ethylbenzene*	0.161	0.050	03/11/2014	ND	2.02	101	2.00	3.47	
Total Xylenes*	1.41	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77	
Total BTEX	1.66	0.300	03/11/2014	ND					

Surrogate: 4-Bromofluorobenzene (PII) 140 % 89.4-126

TPH 8015M	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	26.3	10.0	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	479	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 117 % 63.6-154

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Analytical Results For:

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

Received: 03/11/2014
 Reported: 03/12/2014
 Project Name: MARQUARDT LINE LEAK
 Project Number: 700348.153.01
 Project Location: S2-T25S-R26E

Sampling Date: 03/10/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-11 3' (H400736-09)

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	03/11/2014	ND	2.18	109	2.00	2.84		
Toluene*	<0.050	0.050	03/11/2014	ND	2.06	103	2.00	3.07		
Ethylbenzene*	<0.050	0.050	03/11/2014	ND	2.02	101	2.00	3.47		
Total Xylenes*	<0.150	0.150	03/11/2014	ND	5.77	96.2	6.00	3.77		
Total BTEX	<0.300	0.300	03/11/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 101 % 89.4-126

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	03/12/2014	ND	212	106	200	3.49	
DRO >C10-C28	39.7	10.0	03/12/2014	ND	203	101	200	3.23	

Surrogate: 1-Chlorooctane 114 % 65.2-140

Surrogate: 1-Chlorooctadecane 119 % 63.6-154

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- 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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CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:	
Project Manager: Sheldon Hitchcock		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia	State: NM	Zip: 88210	
Phone #: 575-746-8768	Fax #: 575-746-8905	Address:	
Project #: 700348.153.01	Project Owner: Enterprise	City:	
Project Name: Marquardt Line Leak	State:	Zip:	
Project Location: S2-T25S-R26E	Phone #:		
Sampler Name: S. Hitchcock	Fax #:		

FOR LAB USE ONLY		MATRIX		PRESERV.	SAMPLING											
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	TPH	BTEX
1460736	1	5-14'	5'	6	1	1	1	1	1	1	1	1	3/10/14	11:33	1	1
	2	5-24'	4'	6	1	1	1	1	1	1	1	1	11:30	11:30	1	1
	3	5-34'	4'	6	1	1	1	1	1	1	1	1	11:23	11:23	1	1
	4	5-44'	4'	6	1	1	1	1	1	1	1	1	11:19	11:19	1	1
	5	5-74'	4'	6	1	1	1	1	1	1	1	1	11:33	11:33	1	1
	6	5-83'	3'	6	1	1	1	1	1	1	1	1	11:43	11:43	1	1
	7	5-93'	3'	6	1	1	1	1	1	1	1	1	11:45	11:45	1	1
	8	5-103'	3'	6	1	1	1	1	1	1	1	1	11:50	11:50	1	1
	9	5-113'	3'	6	1	1	1	1	1	1	1	1	11:47	11:47	1	1

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Reinquinshed By: <i>Sheldon Hitchcock</i>	Date: <i>03/11/14</i>	Received By: <i>Sheldon Hitchcock</i>
Time: <i>12:05</i>	Date: <i>03/11/14</i>	Time: <i>12:05</i>

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	<i>Rush</i>

Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:

REMARKS: *Rush*



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

March 20, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: MARQUARDT LINE LEAK

Enclosed are the results of analyses for samples received by the laboratory on 03/19/14 12:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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



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

Analytical Results For:

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

Received:	03/19/2014	Sampling Date:	03/19/2014
Reported:	03/20/2014	Sampling Type:	Soil
Project Name:	MARQUARDT LINE LEAK	Sampling Condition:	** (See Notes)
Project Number:	700348.153.01	Sample Received By:	Amanda Ponce
Project Location:	S2-T25S-R26E		

Sample ID: S-10 3' (H400833-01)

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	03/19/2014	ND	2.01	101	2.00	0.775		
Toluene*	<0.050	0.050	03/19/2014	ND	1.92	96.0	2.00	0.201		
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	1.88	94.1	2.00	0.709		
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.43	90.5	6.00	0.115		
Total BTEx	<0.300	0.300	03/19/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 89.4-126

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	03/20/2014	ND	225	112	200	5.05		
DRO >C10-C28	<10.0	10.0	03/20/2014	ND	213	106	200	2.35		

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

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Celey D. Keene

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

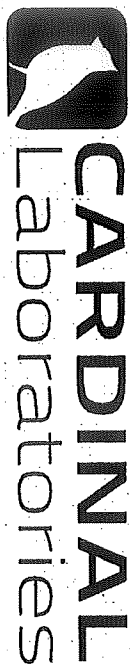
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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]

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

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

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

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

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

CONDITIONS

Action 206663

CONDITIONS

Operator: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206663
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/17/2023