

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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

2RP-2079

## 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, B6 Lateral	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
	9	21S	27E					Eddy

Latitude 32.49991 N Longitude -104.19882 W

## NATURE OF RELEASE

Type of Release	Natural Gas and Pipeline Liquids	Volume of Release: 2.584 MMCF and 15 BBL Pipeline Liquids	Volume Recovered 0 BBL
Source of Release	Pipeline Leak and Blow-down for Repair	Date and Hour of Occurrence 11/14/2013 18:57 (MST)	Date and Hour of Discovery (End) 11/14/2013 21:03 (MST)
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher via Telephone	
By Whom?	Jim Heap	Date and Hour 11/15/2013 09:00 (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.\*

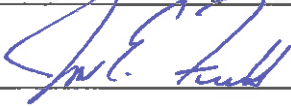
Suspected internal corrosion. The pipeline was evacuated to atmosphere to complete repair. Volume includes line blowdown volume. Overall, 5 perforations required repair.

Describe Area Affected and Cleanup Action Taken.\*

Soil remediation is outlined in the attached document.

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:



Printed Name: Jon E. Fields

Title: Director – Field Environmental

E-mail Address: jefields@eprod.com

Date: 4/11/17 Phone: 713-381-6595

## OIL CONSERVATION DIVISION

Approved by District Supervisor:



Approval Date: 4/13/2023

Expiration Date:

Conditions of Approval:

Attached ☐

\* Attach Additional Sheets If Necessary



talonlpe.com • 866.742.0742



**Closure Report**  
**Enterprise Products Operating, LLC: B-6 Lateral**  
**|2RP-2079|**

April 5, 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 .....	4

## 1.0 Introduction

### 1.1 Objectives and Site Background

Enterprise Products Operating, 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 B-6 Lateral is located approximately seven (7) miles north of Carlsbad, New Mexico. The legal location for this release is Unit Letter F, Section 9, Township 21 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.49991 and -104.19882 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
<b>Benzene</b>	10 mg/kg	10 mg/kg	10 mg/kg
<b>Total BTEX</b>	50 mg/kg	50 mg/kg	50 mg/kg
<b>TPH</b>	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 Tunuco loamy sand 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 120-feet below ground surface (BGS). The nearest water well to this site is well C-01339 which is 3,310-feet to the southeast. See [Appendix III](#) for the referenced groundwater data and well data.

### 3.3 Surface Water Distance

The nearest surface water body is the Lake Avalon. The nearest bank of the lake is approximately 2.4 miles west 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 0. 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 14, 2013, a leak on the B-6 Lateral Line occurred due to internal corrosion. This leak resulted in the loss of approximately 15bbls of pipeline liquids. The affected section of pipeline was shut in, excavated, and repaired.

## 5.0 Remediation Activities

### 5.1 Excavation Activities

A bell hole was dug to expose the pipeline and facilitate repair. The excavated soil was stockpiled on plastic liner. Following repair Talon mobilized personnel to conduct soil sampling within the bell hole. Upon receipt of analytical results (summarized in the next section) it was determined that the excavation would need to be advanced vertically.

Talon mobilized equipment and personnel to advance the bell hole vertically and to excavate the impacted soil from the flow path which ran northeast from the release point. The bell hole was advanced to a depth of 7.5-feet BGS and the flow path was excavated to depths ranging from 1-foot to 2.5-feet BGS.

### 5.2 Soil Sampling

Following excavation activities soil samples were collected from the bottom and sidewalls of the bell hole and from the bottom of the flowpath. 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](#).

12/3/2013

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
S-1	5	9.09	604	336	10030
S-2	Sidewall	<0.050	0.879	128	36.5
S-3	Sidewall	<0.050	<0.300	<16.0	<10.0
S-4	Sidewall	0.399	48.8	336	333.2
S-5	Sidewall	<0.200	1.54	64	139.8

2/13/2014

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
S-1	7.5	<0.050	<0.300	--	<10.0

(--) Analyte Not Tested

2/26/2014

Sample ID	Depth (feet)	Benzene (mg/kg)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)
S-6	1	<0.050	<0.300	<16.0	<10.0
S-7	2.5	<0.050	<0.300	64.0	<10.0
S-8	2	<0.050	<0.300	<16.0	<10.0

### 5.3 Backfill and Site Grading Activities

Following receipt of analytical results from the soil sampling events which showed that the soil in the affected area was below NMOCD RRAL's, the site was backfilled with top soil and contoured to match the surrounding terrain.

## 6.0 Conclusions and Recommendations

### 6.1 Conclusions

- 15bbls of pipeline fluids were released from the B-6 Lateral Line. The fluid impacted the soil surrounding the pipeline and flowed southeast from the release point across the surface of the soil.
- The pipeline was exposed and soil samples were taken from the bottom and sidewalls of the bell hole.
- Upon receipt of analytical data from the initial soil sampling event the bottom of the bell hole was advanced to a depth of 7.5-feet BGS. The soil in the flow path was excavated to depths ranging from 1-foot to 2.5-feet BGS.
- Confirmation soil samples were taken from the bottom of the bell hole and the flow path.
- Upon receipt of analytical results from the confirmation samples showing that the soil in the impacted area was below NMOCD RRAL's the excavations were backfilled with topsoil and contoured to match the surrounding terrain.

### 6.2 Recommendations

Based on the analytical results from the soil sampling events summarized 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

# B-6 Lateral Line

Enterprise Products Operating

## Legend

- Impacted Area
- Pipeline
- Sample Location



## APPENDIX II

## AREA MAPS



Lake Avalon

Enterprise- B-6 Lateral



Google Earth

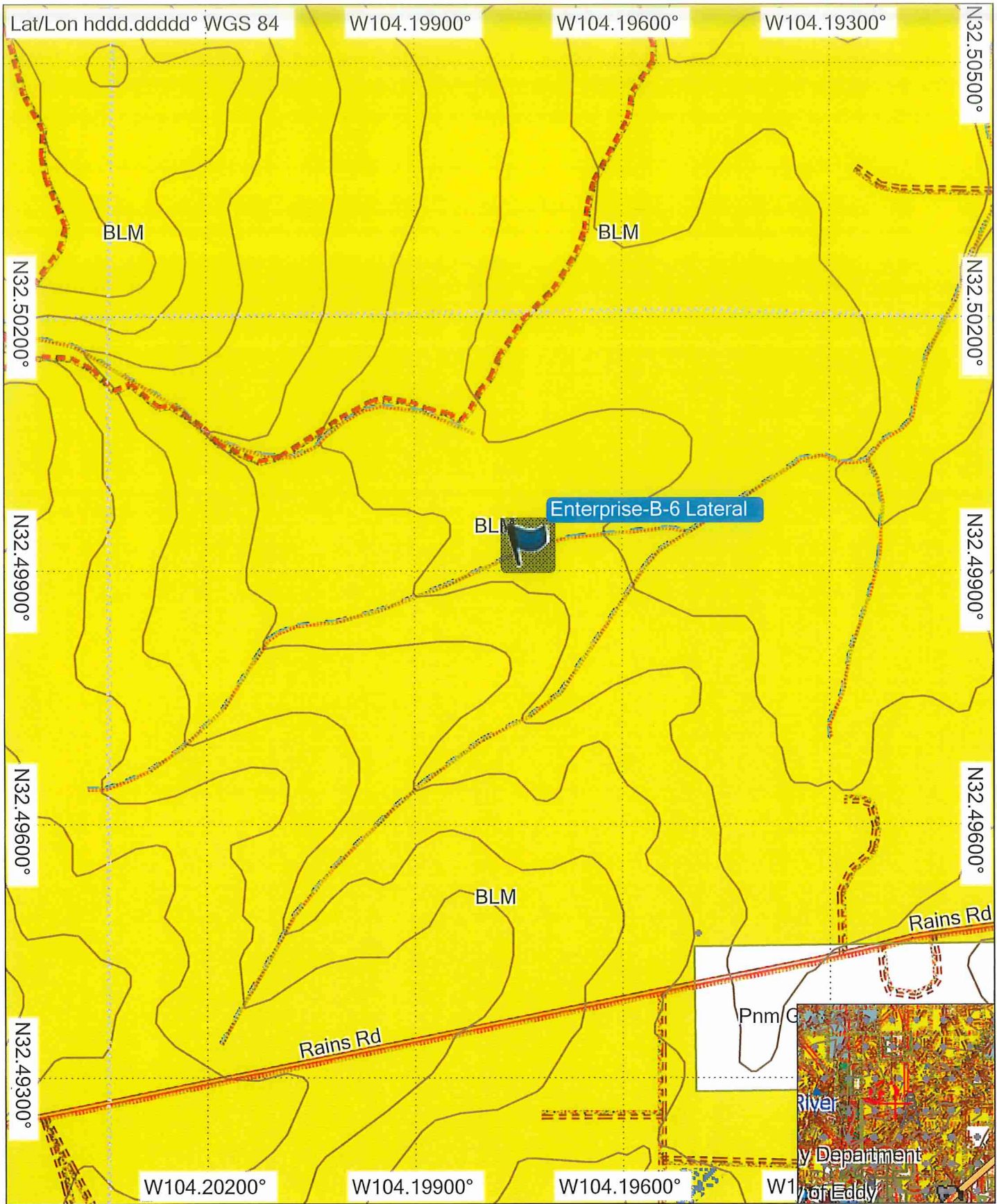
Niloop Rd

829067337

1 mi  
4/13/2023 7:47:47 AM







NM\_PLAT4GPS  
All rights reserved.  
gps\_mapper  
©2015 onXmaps, Inc.

10/21/2016 10:48:50 AM

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
<a href="#">C 01339</a>			ED	1	4	09	21S	27E		575842	3595353*	904	425	120	305

Average Depth to Water: 120 feet  
Minimum Depth: 120 feet  
Maximum Depth: 120 feet

Record Count: 1

Basin/County Search:

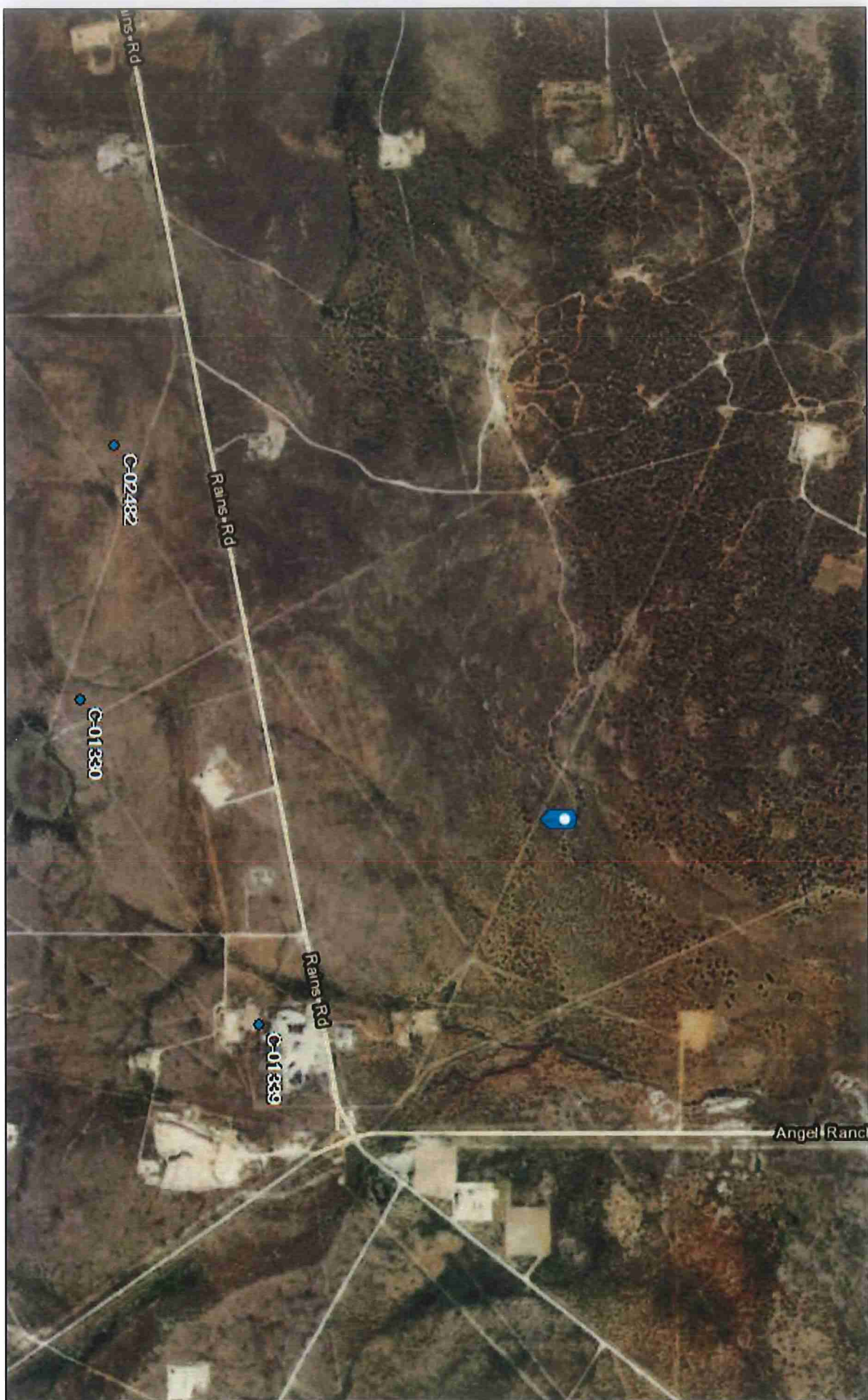
County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 575437      Northing (Y): 3596162      Radius: 1000



# USE WELL LOCATIONS

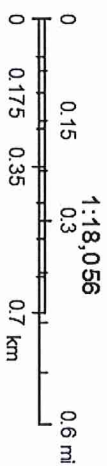


April 6, 2017

OSE Wells

● ACT

OSE District Boundary



Est! HERE Delorme, MapmyIndia, © OpenStreetMap contributors  
Est! 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  
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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

**nJMW1333037772** OPERATOR ☒ Initial Report ☐ Final Report

Name of Company	Enterprise Field Services LLC <b>100847</b>	Contact	Jim Heap
	PO Box 4324, Houston, TX 77252	Telephone No.	432-686-5404
Facility Name	Pipeline ROW, B6 Lateral	Facility Type:	Gas Gathering Pipeline
Surface Owner	Multiple Owners	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 Eddy
	9	21S	27E					

Latitude 32.49991 N Longitude -104.19882 W

### NATURE OF RELEASE

Type of Release	Natural Gas and Pipeline Liquids	Volume of Release: 2.584 MMCF and 15BBL Pipeline Liquids	Volume Recovered TBD
Source of Release	Pipeline Leak and Blow-down for Repair	Date and Hour of Occurrence 11/14/2013 18:57 (MST)	Date and Hour of Discovery (End) 11/14/2013 21:03 (MST)
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher via Telephone	
By Whom?	Jim Heap	Date and Hour 11/15/2013 09:00 (MST)	
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

**RECEIVED**

NOV 20 2013  
NMOCD

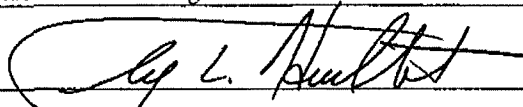
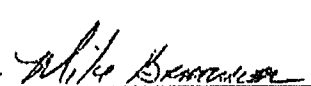
If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\*

Suspected internal corrosion. The pipeline was evacuated to atmosphere to complete repair. Volume includes line blowdown volume. Overall, 5 perforations will require repair.

Describe Area Affected and Cleanup Action Taken.\*

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:			
Printed Name	Terry J. Nolan	Approved by District Supervisor: Signed By 	
Title:	Group Sr. Vice President	Approval Date: <b>NOV 26 2013</b>	Expiration Date:
E-mail Address:	snolan@eprod.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date:	11-18-2013	Phone:	713-381-6595

\* Attach Additional Sheets If Necessary

**nJMW1333036285**

**nJMW1333038103**

Remediation per OCD Rule &  
Guidelines. SUBMIT REMEDIATION  
PROPOSAL NO LATER THAN:

**December 26, 2013**

**ZRP-2079**

## APPENDIX V

# LABORATORY RESULTS



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

December 16, 2013

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: B-6 RAINS ROAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 12/05/13 15:00.

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](http://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: 12/05/2013  
 Reported: 12/16/2013  
 Project Name: B-6 RAINS ROAD RELEASE  
 Project Number: 700348.156.01  
 Project Location: NONE GIVEN

Sampling Date: 12/03/2013  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 5' (H302952-01)**

BTX 8021B		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>9.09</b>	1.00	12/06/2013	ND	2.24	112	2.00	1.34	
<b>Toluene*</b>	<b>148</b>	1.00	12/06/2013	ND	2.27	114	2.00	2.47	
<b>Ethylbenzene*</b>	<b>93.4</b>	1.00	12/06/2013	ND	2.27	114	2.00	3.35	
<b>Total Xylenes*</b>	<b>354</b>	3.00	12/06/2013	ND	6.80	113	6.00	4.86	
<b>Total BTX</b>	<b>604</b>	6.00	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 345 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Chloride</b>	<b>336</b>	16.0	12/13/2013	ND	416	104	400	3.77	
<b>TPH 8015M</b>									

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>8270</b>	10.0	12/06/2013	ND	192	96.0	200	11.2	
<b>DRO &gt;C10-C28</b>	<b>1760</b>	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 249 % 65.2-140

Surrogate: 1-Chlorooctadecane 105 % 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.

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:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	B-6 RAINS ROAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700348.156.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-2 5' (H302952-02)**

BTX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	0.111	0.050	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	0.228	0.050	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	0.540	0.150	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTX	0.879	0.300	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 147 % 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	128	16.0	12/13/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16.6	10.0	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	19.9	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 93.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 90.2 % 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.

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:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	B-6 RAINS ROAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700348.156.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-3 5' (H302952-03)**

BTEX 8021B		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	<0.050	0.050	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	<b>0.055</b>	0.050	12/06/2013	ND	2.27	114	2.00	3.35	
Total Xylenes*	<0.150	0.150	12/06/2013	ND	6.80	113	6.00	4.86	
Total BTEX	<0.300	0.300	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 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	<16.0	16.0	12/13/2013	ND	416	104	400	3.77	

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	12/06/2013	ND	192	96.0	200	11.2	
DRO >C10-C28	<10.0	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 85.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.6 % 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.

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:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	B-6 RAINS ROAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700348.156.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-4 5' (H302952-04)**

BTEx 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.399</b>	0.200	12/06/2013	ND	2.24	112	2.00	1.34	
<b>Toluene*</b>	<b>9.30</b>	0.200	12/06/2013	ND	2.27	114	2.00	2.47	
<b>Ethylbenzene*</b>	<b>7.71</b>	0.200	12/06/2013	ND	2.27	114	2.00	3.35	
<b>Total Xylenes*</b>	<b>31.4</b>	0.600	12/06/2013	ND	6.80	113	6.00	4.86	
<b>Total BTEx</b>	<b>48.8</b>	1.20	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 290 % 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
<b>Chloride</b>	<b>336</b>	16.0	12/13/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: ck					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>242</b>	10.0	12/06/2013	ND	192	96.0	200	11.2	
<b>DRO &gt;C10-C28</b>	<b>91.2</b>	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 119 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 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.

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:	12/05/2013	Sampling Date:	12/03/2013
Reported:	12/16/2013	Sampling Type:	Soil
Project Name:	B-6 RAINS ROAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700348.156.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-5 5' (H302952-05)**

BTX 8021B		mg/kg	Analyzed By: CK					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	12/06/2013	ND	2.24	112	2.00	1.34	
Toluene*	<0.200	0.200	12/06/2013	ND	2.27	114	2.00	2.47	
Ethylbenzene*	<b>0.459</b>	0.200	12/06/2013	ND	2.27	114	2.00	3.35	
<b>Total Xylenes*</b>	<b>1.08</b>	0.600	12/06/2013	ND	6.80	113	6.00	4.86	
<b>Total BTX</b>	<b>1.54</b>	1.20	12/06/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 143 % 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
<b>Chloride</b>	<b>64.0</b>	16.0	12/13/2013	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: ck						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>13.8</b>	10.0	12/06/2013	ND	192	96.0	200	11.2	
<b>DRO &gt;C10-C28</b>	<b>126</b>	10.0	12/06/2013	ND	190	95.1	200	12.5	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.8 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

### 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

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.

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

Company Name: Talon/LPE		P.O. #:		ANALYSIS REQUEST																																																													
Project Manager: S. Hitchcock		Company: Talon/LPE																																																															
Address: 408 W. Texas Ave.		Attn:																																																															
City: Artesia		Address:																																																															
Phone #: 575-746-8768		Fax #: 575-746-8905																																																															
Project #: 700348.156.01		Project Owner: Enterprise																																																															
Project Name: B-6 Rains Rd. Release		City:																																																															
Project Location:		State:																																																															
Sample Name: S. Hitchcock		Phone #:																																																															
FOR LAB USE ONLY		Fax #:																																																															
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												Chlorides											
H302952		5-1 5'		6		1		1		1		1		1		1		1		1		1		1		12/3/13		2:32		1												1												1											
2		5-2 5'		6		1		1		1		1		1		1		1		1		1		1		2:36		1												1												1													
3		5-3 5'		6		1		1		1		1		1		1		1		1		1		1		2:38		1												1												1													
4		5-4 5'		6		1		1		1		1		1		1		1		1		1		1		2:40		1												1												1													
5		5-5 5'		6		1		1		1		1		1		1		1		1		1		1		2:42		1												1												1													



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: B-6 RAINS ROAD RELEASE

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](http://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: 02/13/2014  
 Reported: 02/14/2014  
 Project Name: B-6 RAINS ROAD RELEASE  
 Project Number: 700348.156.01  
 Project Location: NONE GIVEN

Sampling Date: 02/13/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-1 7.5' (H400440-01)**

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	02/14/2014	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 (PIL) 98.9 % 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	02/14/2014	ND	193	96.6	200	1.28		
DRO >C10-C28	<10.0	10.0	02/14/2014	ND	178	88.9	200	4.42		

Surrogate: 1-Chlorooctane 87.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.9 % 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.

Celey D. Keene, Lab Director/Quality Manager





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

### 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

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.

Celey D. Keene, Lab Director/Quality Manager





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

March 03, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: B-6 RAINS ROAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/27/14 14:15.

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](http://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: 02/27/2014  
 Reported: 03/03/2014  
 Project Name: B-6 RAINS ROAD RELEASE  
 Project Number: 700348.156.01  
 Project Location: NONE GIVEN

Sampling Date: 02/26/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S-6 1' (H400595-01)**

BTEX 8260B			mg/kg								Analyzed By: MS		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier				
Benzene*	<0.050	0.050	03/01/2014	ND	2.01	100	2.00	3.71					
Toluene*	<0.050	0.050	03/01/2014	ND	2.10	105	2.00	1.64					
Ethylbenzene*	<0.050	0.050	03/01/2014	ND	1.92	96.1	2.00	0.111					
Total Xylenes*	<0.150	0.150	03/01/2014	ND	5.80	96.6	6.00	0.835					
Total BTEX	<0.300	0.300	03/01/2014	ND									

Surrogate: Dibromofluoromethane 98.1 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

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	02/28/2014	ND	416	104	400	3.92		

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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	

Surrogate: 1-Chlorooctane 88.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.5 % 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.

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: 02/27/2014  
Reported: 03/03/2014  
Project Name: B-6 RAINS ROAD RELEASE  
Project Number: 700348.156.01  
Project Location: NONE GIVEN

Sampling Date: 02/26/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S-7 2.5' (H400595-02)**

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2014	ND	2.01	100	2.00	3.71	
Toluene*	<0.050	0.050	03/01/2014	ND	2.10	105	2.00	1.64	
Ethylbenzene*	<0.050	0.050	03/01/2014	ND	1.92	96.1	2.00	0.111	
Total Xylenes*	<0.150	0.150	03/01/2014	ND	5.80	96.6	6.00	0.835	
Total BTEX	<0.300	0.300	03/01/2014	ND					

Surrogate: Dibromofluoromethane 96.0 % 61.3-142

Surrogate: Toluene-d8 103 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

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	02/28/2014	ND	416	104	400	3.92	

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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	

Surrogate: 1-Chlorooctane 83.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 92.5 % 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.

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:	02/27/2014	Sampling Date:	02/26/2014
Reported:	03/03/2014	Sampling Type:	Soil
Project Name:	B-6 RAINS ROAD RELEASE	Sampling Condition:	Cool & Intact
Project Number:	700348.156.01	Sample Received By:	Jodi Henson
Project Location:	NONE GIVEN		

**Sample ID: S-8 2' (H400595-03)**

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/01/2014	ND	2.01	100	2.00	3.71	
Toluene*	<0.050	0.050	03/01/2014	ND	2.10	105	2.00	1.64	
Ethylbenzene*	<0.050	0.050	03/01/2014	ND	1.92	96.1	2.00	0.111	
Total Xylenes*	<0.150	0.150	03/01/2014	ND	5.80	96.6	6.00	0.835	
Total BTEx	<0.300	0.300	03/01/2014	ND					

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 104 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

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	02/28/2014	ND	416	104	400	3.92	

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	03/01/2014	ND	217	108	200	3.10	
DRO >C10-C28	<10.0	10.0	03/01/2014	ND	212	106	200	0.309	

Surrogate: 1-Chlorooctane 92.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.0 % 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.

Celey D. Keene, Lab Director/Quality Manager



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

### 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

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.

Celey D. Keene, Lab Director/Quality Manager





**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 206656

CONDITIONS

Operator: ENTERPRISE PRODUCTS OPERATING, LLC P.O. BOX 4324 HOUSTON, TX 77210	OGRID: 374092
	Action Number: 206656
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/13/2023