



September 8, 2013

AMARILLO
921 North Bivins
Amarillo, Texas 79107
Phone 806.467.0607
Fax 806.467.0622

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

ARTESIA
408 West Texas Ave.
Artesia, New Mexico 88210
Phone 575.746.8768
Fax 575.746.8905

Subject: **Soil Assessment and Remediation Work Plan**
Devon Energy Corporation
H B 10 Federal #1H
30-015-29157

Dear Mr. Bratcher,

HOBBS
318 East Taylor Street
Hobbs, New Mexico 88240
Phone 575.393.4261
Fax 575.393.4658

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Background Information

MIDLAND
2901 State Hwy 349
Midland, Texas 79706
Phone 432.522.2133
Fax 432.522.2180

The H B 10 Fed #1H is located approximately fifteen (15) miles southeast of Loving, New Mexico. The legal location for this site is Unit Letter H of Section 10, Township 23 South, and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the location are 32.234873278 North and -103.966670224 West.

OKLAHOMA CITY
7700 North Hudson Avenue
Suite 10
Oklahoma City, Oklahoma 73116
Phone 405.486.7030
Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Pajarito loamy fine sand with 0 to 3 percent slopes, eroded. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene Eolian deposits. Drainage courses in this area are normally dry. Ground water in the project vicinity is greater than 220-feet below ground surface (bgs), according to the New Mexico of the State Engineer.

SAN ANTONIO
13111 Lookout Way
San Antonio, Texas 78233
Phone 210.265.8025
Fax 210.568.2191

The ranking for this site is **0** Based on the following:

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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

Toll Free: 866.742.0742
www.talonlpe.com

Incident Description

External corrosion on the circulating pump line caused a release of approximately 10bbbls of oil (0bbbls were recovered). All of the oil was contained within the earthen berms of the battery. The oil flowed to the south from the area surrounding the circulating pump for approximately 100-feet along the west berm of the battery. Talon mobilized personnel to conduct soil sampling within the battery, utilizing a hand auger. Refusal was encountered at 2-feet bgs. Due to the flow lines within the impacted area any further excavation and subsequent vertical delineation will have to be conducted by hand excavation.

Laboratory Results

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

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	454	368	9700	34100
S-1	1	48.8	96	1570	4680
S-1	2	72.3	16	1490	4190
S-2	0	26.8	2880	887	14700
S-2	1	602	32	7810	12200
S-2	2	133	16	1750	3510
S-3	0	339	16	7650	32300
S-3	1	343	ND	5400	12500
S-3	2	233	16	3810	10100

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

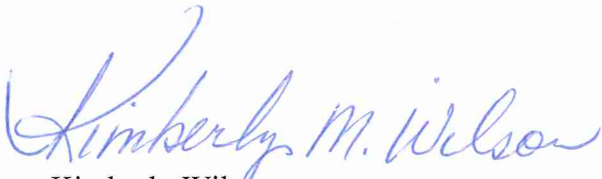
Proposed Remedial Actions

- The impacted area will be hand excavated to a depth of 3-feet bgs.
- Confirmation soil samples will be taken at sample locations S-1, S-2, and S-3. Should these samples be above NMOCD RRAL's the area will be excavated to a greater depth until acceptable analytical results can be obtained.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- Once clean confirmation samples are obtained the excavation will be backfilled with caliche.

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

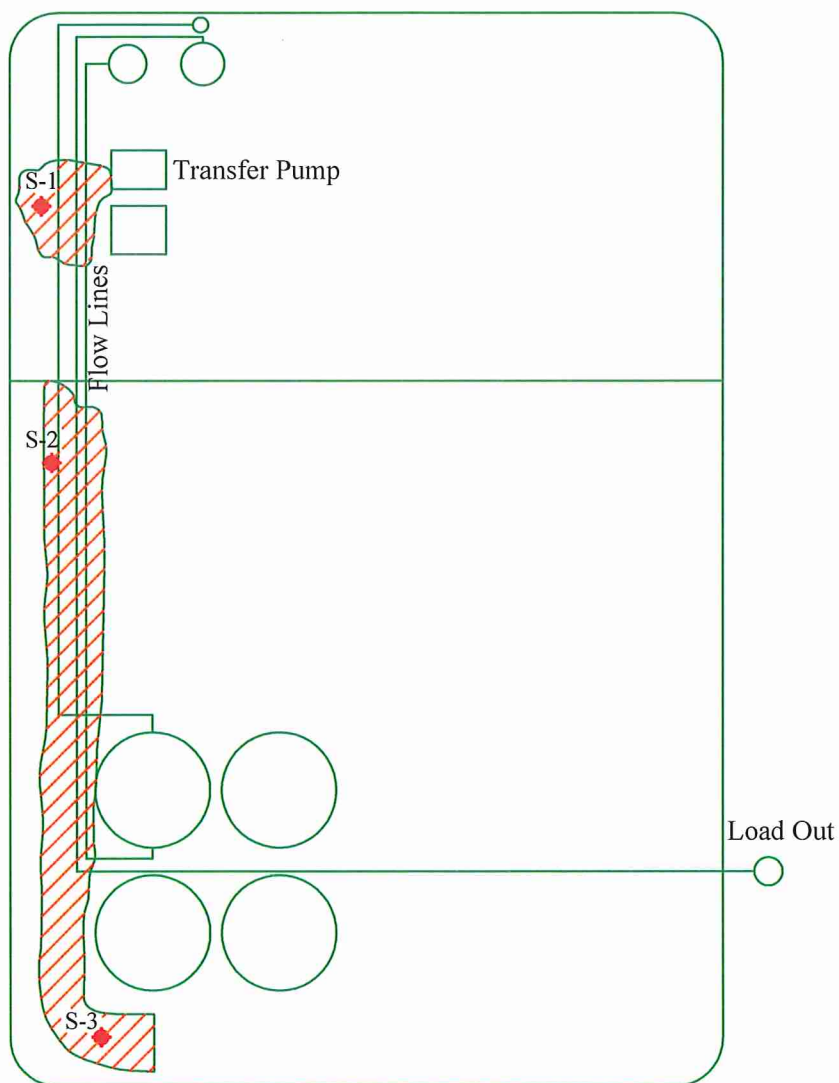


Kimberly Wilson
Project Manager



David J. Adkins
District Manager

SITE PLAN



0 10 20
Scale in Feet

Legend
♦ - Sample Location



Date: 08/15/2014

Scale: 1" = 20'

Drawn By: TJS

HB10 Fed #1H
Devon Energy Corporation
Eddy County, New Mexico
Figure 1 - Site Plan

GROUNDWATER DATA
INITIAL C-141



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 00863			ED	3	3	1	16	24S	29E	594524	3565091*	3390	220		
C 00863 CLW199506	O		ED	3	3	1	16	24S	29E	594524	3565091*	3390	220		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 2

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 597431

Northing (Y): 3566835

Radius: 3500

*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.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

NM OIL CONSERVATION
ARTESIA DISTRICT
State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505
JUL 23 2014
RECEIVED

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

NAME AB1420537731 **OPERATOR** ☒ Initial Report ☐ Final Report
Name of Company Devon Energy Production 6137 **Contact** Tracy Kidd
Address 6488 Seven Rivers Hwy Artesia, NM 88220 **Telephone No.** 575.513.0628
Facility Name H B 10 Fed 1H **Facility Type** Oil Well

Surface Owner Federal **Mineral Owner** Federal **API No.** 30-015-29157

LOCATION OF RELEASE

Unit Letter H	Section 10	Township 24S	Range 29E	Feet from the 1650	North/South Line North	Feet from the 990	East/West Line East	County Eddy
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Latitude: 32.234873278

Longitude: -103.966670224

NATURE OF RELEASE

Type of Release Spill Source of Release <u>Circulating pump line</u>	Volume of Release <u>10BBLS</u> Date and Hour of Occurrence <u>July 20, 2014 11:00 AM</u>	Volume Recovered <u>0BBLS</u> Date and Hour of Discovery <u>July 20, 2014 11:00 AM</u>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <u>Jeff Robertson; BLM & Thomas Oberding; OCD</u>	
By Whom? <u>Joah Weidemann</u>	Date and Hour <u>7/21/2014 2:15 PM & 3:36 PM</u>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse <u>N/A</u>	

If a Watercourse was Impacted, Describe Fully.*
N/A

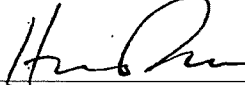
Describe Cause of Problem and Remedial Action Taken.*

External corrosion on circulating pump line. Once the leak in the line was found it was de-energized and isolated. Line is in the process of being replaced and being wax taped to prevent corrosion in the future.

Describe Area Affected and Cleanup Action Taken.*

10 BBLS of oil leaked from the 2" steel circulating pump line where the line was buried under the firewall. The leak was due to external corrosion. The 10 BBLS were contained within the earthen containment. 0 BBLS were recovered. Size of the area affected: 60'x2'.

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: <u>Sandra Farley</u>	OIL CONSERVATION DIVISION	
Printed Name: <u>Sandra Farley</u>	Approved by Environmental Specialist: 	
Title: <u>Field Admin Support</u>	Approval Date: <u>7/24/2014</u>	Expiration Date: <u>N/A</u>
E-mail Address: <u>Sandy.Farley@dmn.com</u>	Conditions of Approval: <u>remediation per OGD Rule & Guidelines, & like approval by BLM. SUBMIT REMEDIATION</u>	
Date: <u>July 22, 2014</u> Phone: <u>575.746.5587</u>	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

PROPOSAL NO LATER THAN:

8/24/14

RP2-2390

LABORATORY RESULTS

August 12, 2014

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: H B 10 FED #1H

Enclosed are the results of analyses for samples received by the laboratory on 08/05/14 14:00.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/05/2014	Sampling Date:	08/05/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	H B 10 FED #1H	Sampling Condition:	Cool & Intact
Project Number:	700794.122.01	Sample Received By:	Kathy Perez
Project Location:	DEVON		

Sample ID: S-1 0' (H402397-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.0	10.0	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	132	10.0	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	44.3	10.0	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	266	30.0	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEx	454	60.0	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 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	368	16.0	08/07/2014	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	9700	200	08/06/2014	11.8	185	92.5	200	1.06		
DRO >C10-C28	34100	100	08/06/2014	ND	188	94.1	200	0.965		

Surrogate: 1-Chlorooctane 453 % 65.2-140

Surrogate: 1-Chlorooctadecane 817 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/05/2014
Reported: 08/12/2014
Project Name: H B 10 FED #1H
Project Number: 700794.122.01
Project Location: DEVON

Sampling Date: 08/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-1 1' (H402397-02)

BTX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	9.65	1.00	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	2.81	1.00	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	36.4	3.00	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTX	48.8	6.00	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 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	08/07/2014	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	1570	100	08/06/2014	11.8	185	92.5	200	1.06		
DRO >C10-C28	4680	50.0	08/06/2014	ND	188	94.1	200	0.965		

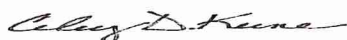
Surrogate: 1-Chlorooctane 143 % 65.2-140

Surrogate: 1-Chlorooctadecane 162 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/05/2014	Sampling Date:	08/05/2014
Reported:	08/12/2014	Sampling Type:	Soil
Project Name:	H B 10 FED #1H	Sampling Condition:	Cool & Intact
Project Number:	700794.122.01	Sample Received By:	Kathy Perez
Project Location:	DEVON		

Sample ID: S-1 2' (H402397-03)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<1.00	1.00	08/07/2014	ND	1.67	83.7	2.00	9.39		
Toluene*	20.2	1.00	08/07/2014	ND	1.66	83.1	2.00	9.35		
Ethylbenzene*	5.57	1.00	08/07/2014	ND	1.65	82.4	2.00	10.7		
Total Xylenes*	46.5	3.00	08/07/2014	ND	5.41	90.1	6.00	10.9		
Total BTEX	72.3	6.00	08/07/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 89.4-126

Chloride, SM4500Cl-B			mg/kg							Analyzed By: HM	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	16.0	16.0	08/08/2014	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	1490	100	08/06/2014	11.8	185	92.5	200	1.06			
DRO >C10-C28	4190	50.0	08/06/2014	ND	188	94.1	200	0.965			

Surrogate: 1-Chlorooctane 126 % 65.2-140

Surrogate: 1-Chlorooctadecane 141 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/05/2014
 Reported: 08/12/2014
 Project Name: H B 10 FED #1H
 Project Number: 700794.122.01
 Project Location: DEVON

 Sampling Date: 08/05/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 0' (H402397-04)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.500	0.500	08/07/2014	ND	1.67	83.7	2.00	9.39		
Toluene*	4.29	0.500	08/07/2014	ND	1.66	83.1	2.00	9.35		
Ethylbenzene*	2.69	0.500	08/07/2014	ND	1.65	82.4	2.00	10.7		
Total Xylenes*	19.9	1.50	08/07/2014	ND	5.41	90.1	6.00	10.9		
Total BTEX	26.8	3.00	08/07/2014	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2880	16.0	08/08/2014	ND	416	104	400	3.92	

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	887	200	08/06/2014	11.8	185	92.5	200	1.06	
DRO >C10-C28	14700	100	08/06/2014	ND	188	94.1	200	0.965	

Surrogate: 1-Chlorooctane 146 % 65.2-140

Surrogate: 1-Chlorooctadecane 395 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/05/2014
 Reported: 08/12/2014
 Project Name: H B 10 FED #1H
 Project Number: 700794.122.01
 Project Location: DEVON

 Sampling Date: 08/05/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Kathy Perez

Sample ID: S-2 1' (H402397-05)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	36.2	5.00	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	238	5.00	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	50.0	5.00	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	278	15.0	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	602	30.0	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/08/2014	ND	416	104	400	3.92	

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	7810	100	08/06/2014	11.8	185	92.5	200	1.06		
DRO >C10-C28	12200	50.0	08/06/2014	ND	188	94.1	200	0.965		

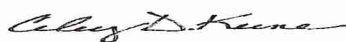
Surrogate: 1-Chlorooctane 216 % 65.2-140

Surrogate: 1-Chlorooctadecane 266 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/05/2014
Reported: 08/12/2014
Project Name: H B 10 FED #1H
Project Number: 700794.122.01
Project Location: DEVON

Sampling Date: 08/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-2 2' (H402397-06)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.84	2.00	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	43.8	2.00	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	12.5	2.00	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	73.2	6.00	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	133	12.0	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2014	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	1750	100	08/07/2014	11.8	185	92.5	200	1.06	
DRO >C10-C28	3510	50.0	08/07/2014	ND	188	94.1	200	0.965	

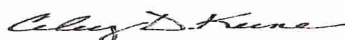
Surrogate: 1-Chlorooctane 135 % 65.2-140

Surrogate: 1-Chlorooctadecane 143 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/05/2014
Reported: 08/12/2014
Project Name: H B 10 FED #1H
Project Number: 700794.122.01
Project Location: DEVON

Sampling Date: 08/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 0' (H402397-07)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	56.7	5.00	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	36.3	5.00	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	246	15.0	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTEX	339	30.0	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2014	ND	416	104	400	3.92	

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	7650	200	08/07/2014	11.8	185	92.5	200	1.06		
DRO >C10-C28	32300	100	08/07/2014	ND	188	94.1	200	0.965		

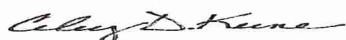
Surrogate: 1-Chlorooctane 470 % 65.2-140

Surrogate: 1-Chlorooctadecane 802 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/05/2014
Reported: 08/12/2014
Project Name: H B 10 FED #1H
Project Number: 700794.122.01
Project Location: DEVON

Sampling Date: 08/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 1' (H402397-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.66	5.00	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	105	5.00	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	33.2	5.00	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	198	15.0	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTX	343	30.0	08/07/2014	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2014	ND	416	104	400	3.92	

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	5400	200	08/07/2014	11.8	185	92.5	200	1.06		
DRO >C10-C28	12500	100	08/07/2014	ND	188	94.1	200	0.965		

Surrogate: 1-Chlorooctane 222 % 65.2-140

Surrogate: 1-Chlorooctadecane 272 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/05/2014
Reported: 08/12/2014
Project Name: H B 10 FED #1H
Project Number: 700794.122.01
Project Location: DEVON

Sampling Date: 08/05/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: S-3 2' (H402397-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.27	2.00	08/07/2014	ND	1.67	83.7	2.00	9.39	
Toluene*	66.2	2.00	08/07/2014	ND	1.66	83.1	2.00	9.35	
Ethylbenzene*	23.2	2.00	08/07/2014	ND	1.65	82.4	2.00	10.7	
Total Xylenes*	141	6.00	08/07/2014	ND	5.41	90.1	6.00	10.9	
Total BTX	233	12.0	08/07/2014	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 107 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/08/2014	ND	416	104	400	3.92	

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	3810	200	08/07/2014	11.8	185	92.5	200	1.06		
DRO >C10-C28	10100	100	08/07/2014	ND	188	94.1	200	0.965		

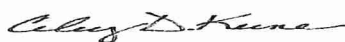
Surrogate: 1-Chlorooctane 193 % 65.2-140

Surrogate: 1-Chlorooctadecane 234 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

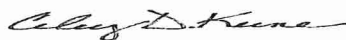
Notes and Definitions

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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE

Project Manager: K. Wilson

Address: 408 W. Texas Ave.

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Project #: 700794.122.01

Project Owner: Devon

Project Name: # B 10 Fed 1 H

Project Location:

Sampler Name: S. Hitchcock

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

4402397

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH

BTEX

Chlorides

ANALYSIS REQUEST

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Relinquished By:

Date: 8-5-14

Received By:

Phone Result: ☐ Yes ☐ No

Addt Phone #:

Fax Result: ☐ Yes ☐ No

Addt Fax #:

Relinquished By:

Date: 8-5-14

Received By:

Phone Result: ☐ Yes ☐ No

Addt Phone #:

Fax Result: ☐ Yes ☐ No

Addt Fax #:

Relinquished By:

Date: 8-5-14

Received By:

Phone Result: ☐ Yes ☐ No

Addt Phone #:

Fax Result: ☐ Yes ☐ No

Addt Fax #:

Delivered By: (Circle One)

Sample Condition

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other:

Cool ☐ Intact ☐

Yes ☐ No ☐