

December 17, 2014

Mr. Mike Bratcher
NMOCD District 2

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

ARTESIA

811 S. 1st Street Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan

Devon Energy Corporation Todd 26 G Federal #2

API # 30-015-20277 - 2RP-2611

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

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.

Incident Date

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

November 9, 2014

Background Information

OKLAHOMA CITY 7700 North Hudson Avenue Suite IO Oklahoma City, Oklahoma 73II6 Phone 405.486.7030 Fax 806.467.0622 The Todd 26 G Federal #2 is located approximately thirty-eight (38) miles southeast of Carlsbad, New Mexico. The legal location for the site is Unit letter G of Section 26, Township 23S, Range 31E in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.2771913 North and -103.7454125 West. See site plan in Appendix I.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191 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 Simona and Wink fine sandy loams with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocence to Middle Pleistocene in age and is comprised of eolian sands. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 430-feet below ground surface (bgs), according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

The ranking for this site is 0 based on the following:

ENVIRONMENTAL CONSULTING

ENGINEERING
DRILLING
CONSTRUCTION

CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING Depth to ground water >100'
Wellhead protection area >1000'
Distance to surface water body >1000'

Page 1 of 3

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

A power failure at the Todd 26 G Fed 2 SWD caused the release of 45 barrels of oil. The wells were shut-in and the faulty unit was replaced. The wells were put back into service. A vac truck was immediately called to the location and recovered 40 barrels of oil. The area affected remained on the north side of the location with a flow path measuring approximately 217-feet long by 30-feet wide. See site plan in Appendix I.

Actions Taken

On November 14, 2014 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 2-feet below ground surface. See Table 1.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B.

Laboratory Results

See Appendix III for complete report of laboratory results.

November 20, 2014

Table 1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	< 0.300	48	<10	<10
1	1'	< 0.300	1340	<10	69.4
	2'		1760	44	
S-2	0,	< 0.300	144	<10	<10
	1'	< 0.300	<16	<10	<10
	2'		<16		
S-3	0'	54.7	<16	1070	5630
	1'	< 0.300	<16	<10	<10
	2'		<16		
S-4	0'	167	32	4250	15800
	1'	< 0.300	32	13.4	<10
	2'		<16		
S-5	0'	59.2	48	1130	4320
	1'	< 0.300	48	<10	10.1
	2'	4	<16		

-- Analyte Not Tested

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. The chloride standard is 1,000 mg/kg.

Proposed Remedial Actions

- The impacted area in the vicinity of sample points S-1 will be excavated to a depth of 2.5-feet deep. Field chloride titration testing will be used to guide the excavation. Once field results indicate that the impacted soil is below NMOCD Recommended Remedial Action Level's (RRAL's) a confirmation soil sample will be taken to insure all of the impacted material was removed.
- The impacted area in the vicinity of sample points S-3, S-4 and S-5 will be excavated to a depth of 0.5-feet deep.
- All the contaminated soil will be transported to Lea Land, LLC, an approved disposal facility.
- The excavated areas will be backfilled with new/clean caliche from Lea Land and recontoured to match the surrounding location.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

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,

inkerly M. Wilson

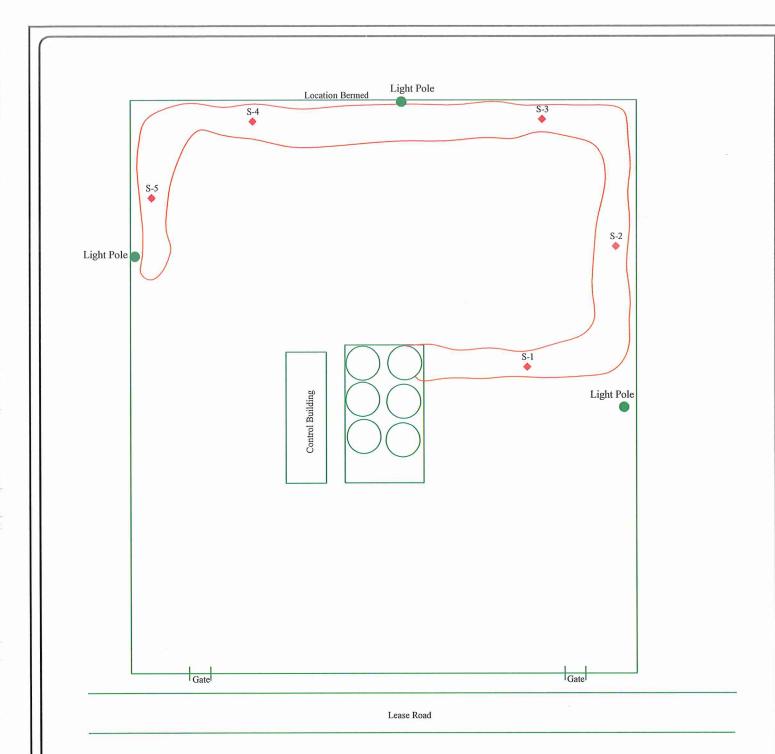
Kimberly M. Wilson

Project Manager

David J. Adkins

District Manager

APPENDIX I SITE MAP





Legend

- Sample Location



Date: 11/18/2014

Scale: NTS

Drawn By: TJS

Todd 26 SWD

Devon Energy Corporation Eddy County, New Mexico Figure 1 - Site Plan

APPENDIX II 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)

Water right mon	olodday	\	9		٠.,			or to large	501)	1		01010)	7.	11 1001	
	POD										A STATE OF THE PARTY OF THE PAR				
	Sub-		Q	Q	Q								Depth	Depth	Water
POD Number	Code basin	County	64	16	4 5	Sec	Tws	Rng		Х	Υ	Distance	Well	Water	Column
C 02258	С	ED		3	2	26	23S	31E	6180	55	3571853*	425	662		
C 02348	С	ED	1	4	3	26	23S	31E	6176	48	3571068 🌑	1298	700	430	270

Average Depth to Water:

430 feet

Minimum Depth:

430 feet

Maximum Depth:

430 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 618351

Northing (Y): 3572159

Radius: 3000

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

Release Notification and Corrective Action **OPERATOR** Initial Report Final Report Name of Company Devon Energy Production Contact Daniel Suniga- Devon Production Foreman Address 6488 Seven Rivers Hwy Artesia, NM 88220 Telephone No. 575-390-5850 Facility Name Todd 26G Fed 2 SWD Facility Type Salt Water Disposal Surface Owner Federal Mineral Owner Federal API No. 30-015-20277 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County G S26 T23S R31E 1980 **FNL** 1650 **FEL** Eddy Latitude: 32.277191377827 Longitude: -103.745412550316 NATURE OF RELEASE Type of Release Spill Oil Volume of Release 45 bbls oil Volume Recovered 40bbls oil Source of Release Oil tank overflow Date and Hour of Occurrence Date and Hour of Discovery November 09, 2014 ~8:30 AM November 09, 2014 9:00 AM Was Immediate Notice Given? If YES, To Whom? Yes No Not Required Mike Bratcher- OCD Jeff Robertson-BLM By Whom? Wesley Ryan- Devon Assistant Production Foreman Date and Hour November 10, 2014 11:21 AM; November 11, 2014 3:00 PM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse ☐ Yes ☒ No N/A If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* The DR-120-24V power supply that provides 24 VDC to the PLC failed and a loss of power occurred at the Todd 26G Fed 2 SWD that led to a spill of 45 bbls of oil. As a result of the power outage pumps and alarms lost power and communication with each other. The faulty unit was replaced and power was restored to the PLC. Describe Area Affected and Cleanup Action Taken.* A 60'x20' area of the pad at the Northwest side near the storage tanks inside the berm containment was affected by the spill requiring the aid of a vacuum truck provided by Standard Energy Services. 40 bbls of the 45 bbls of oil spilled were recovered. The contaminated caliche will be removed and replaced with clean caliche. 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. OIL CONSERVATION DIVISION Signature: Uuri Fernández Approved by Environment Brial A Printed Name: Yuri Fernandez Title: Field Admin Support Approval Date: **Expiration Date:**

Conditions of Approval:

ATER THAN:

Remediation per O.C.D. Rules & Guldelines

THEMIT REMEDIATION PROPOSAL MO

* Attach Additional Sheets If Necessary

Date: November 11, 2014

E-mail Address: Yuri.Fernandez@dvn.com

Phone: 575.748.1846

APPENDIX III LABORATORY RESULTS



November 20, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 26 SWD

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

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 accredited certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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



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

Received:

11/14/2014

Reported:

11/20/2014 TODD 26 SWD

Project Name: Project Number:

700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

ing bate.

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

11/14/2014

Jodi Henson

Sample ID: S-1 0' (H403524-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2014	ND	1.76	88.1	2.00	7.77	
Toluene*	<0.050	0.050	11/18/2014	ND	1.71	85.4	2.00	8.13	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.67	83.7	2.00	9.31	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.02	83.7	6.00	9.55	
Total BTEX	<0.300	0.300	11/18/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/15/2014	ND	223	111	200	0.588	
DRO >C10-C28	<10.0	10.0	11/15/2014	ND	220	110	200	0.939	
Surrogate: 1-Chlorooctane	119 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	131 %	6 52.1-176	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene



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

Received:

11/14/2014

Reported:

11/20/2014

Project Name: Project Number: TODD 26 SWD 700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 1' (H403524-02)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2014	ND	1.76	88.1	2.00	7.77	
Toluene*	<0.050	0.050	11/18/2014	ND	1.71	85.4	2.00	8.13	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.67	83.7	2.00	9.31	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.02	83.7	6.00	9.55	
Total BTEX	<0.300	0.300	11/18/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1340	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/15/2014	ND	223	111	200	0.588	
DRO >C10-C28	69.4	10.0	11/15/2014	ND	220	110	200	0.939	
Surrogate: 1-Chlorooctane	112 %	6 47.2-157	7			27			
Surrogate: 1-Chlorooctadecane	120 %	6 52.1-170	5						

Sample ID: S-1 2' (H403524-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	11/17/2014	ND	400	100	400	3.92	

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

Received:

11/14/2014

Reported:

11/20/2014

Project Name: Project Number: TODD 26 SWD 700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 0' (H403524-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2014	ND	1.76	88.1	2.00	7.77	
Toluene*	<0.050	0.050	11/18/2014	ND	1.71	85.4	2.00	8.13	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.67	83.7	2.00	9.31	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.02	83.7	6.00	9.55	
Total BTEX	<0.300	0,300	11/18/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/15/2014	ND	223	111	200	0.588	
DRO >C10-C28	<10.0	10.0	11/15/2014	ND	220	110	200	0.939	
Surrogate: 1-Chlorooctane	115 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	120 %	6 52.1-176	6						

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*=Accredited Analyte

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Celey D. Keine



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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

11/14/2014

Reported:

11/20/2014 TODD 26 SWD

Project Name: Project Number:

700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 1' (H403524-05)

BTEX 8021B	mg	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/18/2014	ND	1.76	88.1	2.00	7.77	
Toluene*	<0.050	0.050	11/18/2014	ND	1.71	85.4	2.00	8.13	
Ethylbenzene*	<0.050	0.050	11/18/2014	ND	1.67	83.7	2.00	9.31	
Total Xylenes*	<0.150	0.150	11/18/2014	ND	5.02	83.7	6.00	9.55	
Total BTEX	<0.300	0.300	11/18/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.3	% 61-154							
Chloride, SM4500CI-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2014	ND	400	400	100		
	10.0	10.0	11/1//2014	ND	400	100	400	3.92	
TPH 8015M	mg,			d By: MS	400	100	400	3.92	
TPH 8015M Analyte					400 BS	100 % Recovery	400 True Value QC	3.92 RPD	Qualifier
	mg,	'kg	Analyze	d By: MS					Qualifier
Analyte	mg, Result	Reporting Limit	Analyze Analyzed	d By: MS Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Analyte GRO C6-C10	Result	Reporting Limit 10.0 10.0	Analyzed Analyzed 11/15/2014 11/15/2014	d By: MS Method Blank ND	BS 223	% Recovery	True Value QC 200	RPD 0.588	Qualifier

Sample ID: S-2 2' (H403524-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2014	ND	400	100	400	3.92	

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Celey & Keene



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

Received:

11/14/2014

Reported:

11/20/2014

Project Name: Project Number: TODD 26 SWD 700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 0' (H403524-07)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/19/2014	ND	1.76	88.1	2.00	7.77	
Toluene*	7.92	0.200	11/19/2014	ND	1.71	85.4	2.00	8.13	
Ethylbenzene*	9.25	0.200	11/19/2014	ND	1.67	83.7	2.00	9.31	
Total Xylenes*	37.6	0.600	11/19/2014	ND	5.02	83.7	6.00	9.55	
Total BTEX	54.7	1.20	11/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122 5	% 61-154	ſ						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1070	50.0	11/15/2014	ND	223	111	200	0.588	
DRO >C10-C28	5630	50.0	11/15/2014	ND	220	110	200	0.939	
Surrogate: 1-Chlorooctane	192	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	184	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/14/2014

Reported:

11/20/2014 TODD 26 SWD

Project Name: Project Number: Project Location:

700794.073.01 DEVON F-26-23-31 Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 1' (H403524-08)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2014	ND	1.79	89.3	2.00	5.43	
Toluene*	<0.050	0.050	11/19/2014	ND	1.72	85.9	2.00	5.80	
Ethylbenzene*	<0.050	0.050	11/19/2014	ND	1.67	83.4	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/19/2014	ND	5.01	83.6	6.00	6.86	
Total BTEX	<0.300	0.300	11/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.0	% 61-154							
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	RS	% Recovery	True Value OC	DDD	Qualifier

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	<10.0	10.0	11/17/2014	ND	191	95.5	200	0.179	

Surrogate: 1-Chlorooctane

113 %

47.2-157

Surrogate: 1-Chlorooctadecane

124%

52.1-176

Sample ID: S-3 2' (H403524-09)

Chloride, SM4500CI-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	11/17/2014	ND	400	100	400	3.92	

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 11/14/2014

11/20/2014

Project Name: Project Number: TODD 26 SWD 700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-4 0' (H403524-10)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.62	2.00	11/19/2014	ND	1.79	89.3	2.00	5.43	
Toluene*	49.8	2.00	11/19/2014	ND	1.72	85.9	2.00	5.80	
Ethylbenzene*	21.8	2.00	11/19/2014	ND	1.67	83.4	2.00	6.56	
Total Xylenes*	92.0	6.00	11/19/2014	ND	5.01	83.6	6.00	6.86	
Total BTEX	167	12.0	11/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	4250	50.0	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	15800	50.0	11/17/2014	ND	191	95.5	200	0.179	
Surrogate: 1-Chlorooctane	300 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	430 9	6 52.1-17	6						

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/14/2014

Reported:

11/20/2014

Project Name: Project Number: TODD 26 SWD 700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-4 1' (H403524-11)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2014	ND	1.79	89.3	2.00	5.43	
Toluene*	0.064	0.050	11/19/2014	ND	1.72	85.9	2.00	5.80	
Ethylbenzene*	<0.050	0.050	11/19/2014	ND	1.67	83.4	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/19/2014	ND	5.01	83.6	6.00	6.86	
Total BTEX	<0.300	0.300	11/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.4	10.0	11/17/2014	ND	190	95.2	200	0.694	
GRO C6-C10 DRO >C10-C28	13.4 <10.0	10.0 10.0	11/17/2014 11/17/2014	ND ND	190 191	95.2 95.5	200 200	0.694 0.179	
		10.0	11/17/2014						

Sample ID: S-4 2' (H403524-12)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2014	ND	400	100	400	3.92	

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TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

11/14/2014

Reported:

11/20/2014

Project Name: Project Number: TODD 26 SWD 700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

11/14/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-5 0' (H403524-13)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	11/19/2014	ND	1.79	89.3	2.00	5.43	
Toluene*	10.1	0.500	11/19/2014	ND	1.72	85.9	2.00	5.80	
Ethylbenzene*	8.45	0.500	11/19/2014	ND	1.67	83.4	2.00	6.56	
Total Xylenes*	40.7	1.50	11/19/2014	ND	5.01	83.6	6.00	6.86	
Total BTEX	59.2	3.00	11/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	61-154	3						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1130	50.0	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	4320	50.0	11/17/2014	ND	191	95.5	200	0.179	
Surrogate: 1-Chlorooctane	180 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane									

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

Received:

11/14/2014

Reported:

11/20/2014

Project Name: Project Number: TODD 26 SWD 700794.073.01

Project Location:

DEVON F-26-23-31

Sampling Date:

ling Type

11/14/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-5 1' (H403524-14)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/19/2014	ND	1.79	89.3	2.00	5.43	
Toluene*	<0.050	0.050	11/19/2014	ND	1.72	85.9	2.00	5.80	
Ethylbenzene*	<0.050	0.050	11/19/2014	ND	1.67	83.4	2.00	6.56	
Total Xylenes*	<0.150	0.150	11/19/2014	ND	5.01	83.6	6.00	6.86	•
Total BTEX	<0.300	0.300	11/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2 %	61-154	0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/17/2014	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	11/17/2014	ND	190	95.2	200	0.694	
DRO >C10-C28	10.1	10.0	11/17/2014	ND	191	95.5	200	0.179	
Surrogate: 1-Chlorooctane	119 %	6 47.2-15	7		×				
Surrogate: 1-Chlorooctadecane	132 %	6 52.1-17							

Sample ID: S-5 2' (H403524-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					•
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/17/2014	ND	400	100	400	3.92	

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Company Name: Talon/LPE

Declaration		
J	P.O.#:	STREET OF STREET
Address: 408 W. Texas Ave.	Company: Talon/I PE	
City: Artesia state: NM zip: 88210	Attn:	
Phone #: 5/5-746-8768 Fax #: 575-746-8905	Address:	
Project #: Project Owner: () e//e//	City:	
,		
Project Location:	Phono #	
Sampler Name: 5, 1/40/00/06	Filolie #:	
10 Jun 24 200	Fax #:	
MATRIX D. MATRIX		
Cab I.D. Sample I.D. OR (C)OM AINERS DWATER WATER	SE: OL	en IA-c
# CON	TPI	
	66.01 h1/h1/11	+
5-1,	- 1	
5 5-12'	0.22	
5-20	10:28	
	1 28:01	
	11:0	
95/0	10:00	
	10:42	
2	10'44	
PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any chain public	(0/5)	
those for negligence and any other cat final be liable for incidental or consequently out of or related to the performance of	raci of tort, shall be limited to the amount paid by the client for the and received by Cardinal within 30 days after completion of the applicable ns, loss of use, or loss of profits incurred by client, its subsidiaries,	-
Date W Received By:	Phone Result:	
20	REMARKS:	□ No
Time:		
Delivered By: (Circle One) Sample Condition	ition CHECKED BY:	
Sampler - UPS - Bus - Other:	Mil	
,		



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Project Manager: ()//50h	P.O.#:			ANALYSIS REQUEST
Address: 408 W. Texas Ave.	Company	Company: Tolon/I DE		
City: Artesia State: NM zip: 88210		ר מכול די		
Phone #: 575-746-8768 Fax #: 575-746-8905				
Project #: Project Owner:) CVON				
Project Name: Told #26		Zin.		
Project Location:	D	Elp.		
- 1	rnone #:			
Sampler Name: 3, HITWOUK	Fax#:			
FOR CABUSE ONLY	MATRIX PRESERV	VISAMPLING	,	
Lab I.D. Sample I.D.	R: BASE: COOL			
H403594	# CONT	T PH	BTE	
5-41		11/4/10	1 1	
2 4-42		10:27	1,	
7-50		10150		
7 4 6 6		11:20		
7 7		18		
0.27	9 -	1.00		
		-		
PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive tempth for any climm statics as the state of the state o	lain arising whether based is control			

Sampler - UPS - Bus - Other:

Sample Condition
Cool Intact
Pes Pres
No No

Delivered By: (Circle One)

Time:

Received By:

Phone Result: Fax Result: REMARKS:

☐ Yes ☐ No Add'I Phone #:

Relinquished By:

Relinquished By: