

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

HOBBS OCD

MAY 02 2014

RECEIVED

Form C-141
Revised March 17, 1999
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report

☒ Final Report

Name of Company: Devon Energy	Contact: Kenny Kidd
Address: P. O. Box 250	Telephone No.: 575-513-8545
Artesia, NM 88211	
Facility Name: Thistle Unit #50H	Facility Type: Oil Well

Surface Owner: State	Mineral Owner:	API #: 30-025-41302
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LOCATION OF RELEASE

Unit Letter 1	Section 34	Township 23S	Range 33E	Feet from the 200'	North/South Line South	Feet from the 660'	East/West Line East	County LEA
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NATURE OF RELEASE

Type of Release: Oil	Volume of Release - 30 bbls Oil	Volume Recovered - 10 bbls Oil
Source of Release: Overflow Free Tank	Date and Hour of Occurrence 4/23/14	Date and Hour of Discovery 4/23/14
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? NMOCU / Geoffrey Leding	
By Whom? Shammy Ingram	Date and Hour: 4/23/14	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* A transport driver overflowed the free tank causing a release of 30 barrels of oil to be released on location. A vac truck and T&E/LEA personnel were immediately contacted for the correction of this release. The vac truck recovered 10 barrels of oil. T&E made an emergency One Call with NM 811. The free tanks sitting on location were moved and the site assessment was completed. All fluids remained on location.

Describe Area Affected and Cleanup Action Taken.* The impacted area was measured approximately 100' x 70'. The impacted area of the release was excavated to a depth of 1-foot below land surface. The impacted soil was transported to Lea Land, LLC. Confirmation soil sampling was completed on 4/23/2014 and delivered to Cardinal Labs the same day. The lab results are attached along with a site map and groundwater data for the area. The soil testing results are under the Recommended Remedial Action Levels (REAL) after initial excavation. The excavated area was backfilled back to grade using new material transported from a local borrow pit. No further actions are required.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCU 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 NMOCU marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to ground water, surface water, human health or the environment. In addition, NMOCU 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: Shammy Ingram	OIL CONSERVATION DIVISION	
Printed Name: Shammy Ingram	Approved by: District Supervisor	Environmental Specialist
Title: Admin Field Support	Approval Date: 7-8-14	Expiration Date:
Date: 4/30/2014	Phone: 575-748-0174	Conditions of Approval:
		Attached ☐

* Attach Additional Sheets If Necessary

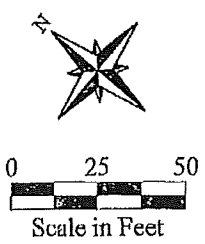
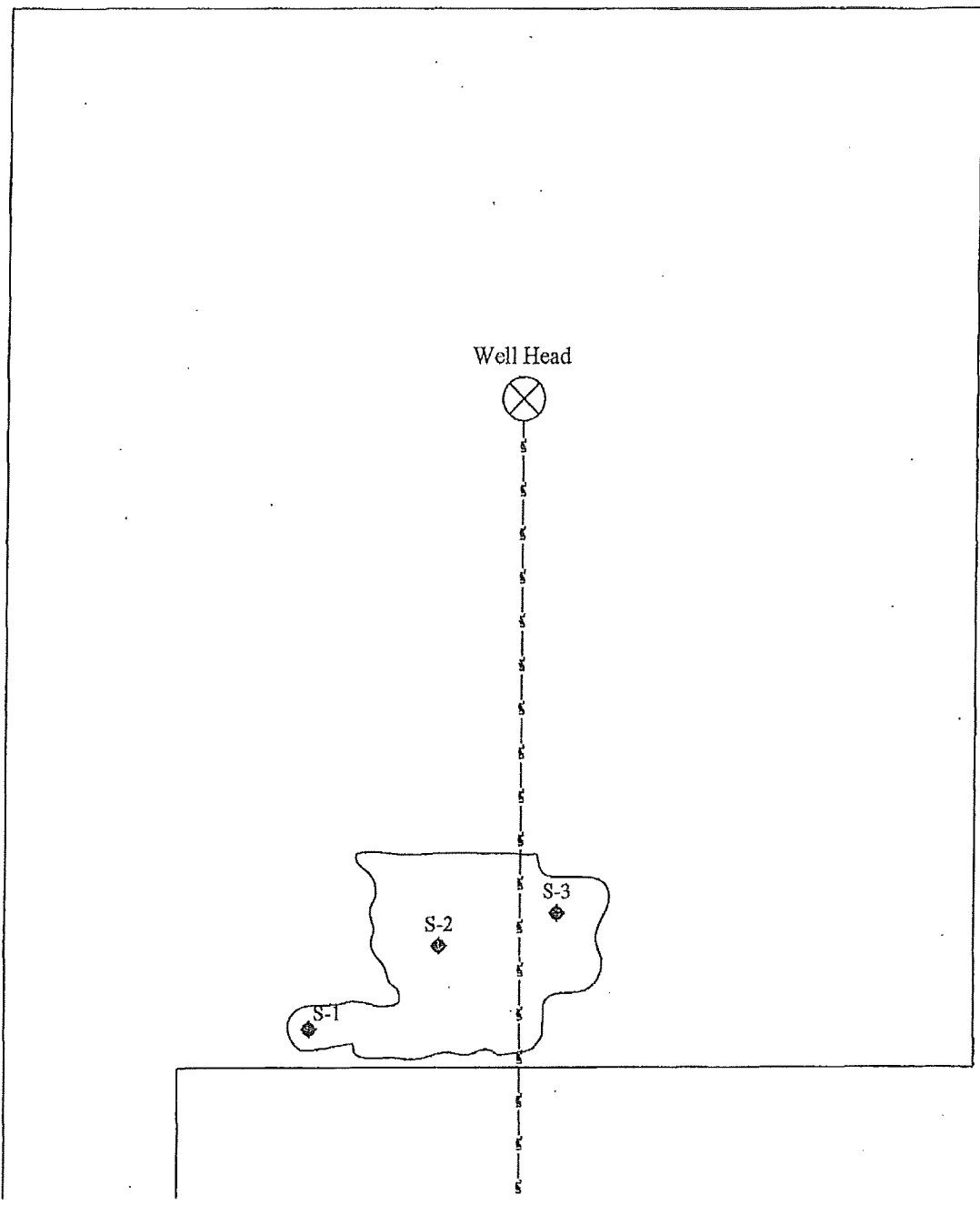
7-19-3154

Ogrod 6137

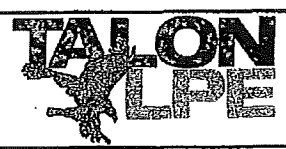
770 1919

770 1918 455602

JUL 09 2014



Legend	
◆	- Sample Location
- - -	- Underground Pipeline



Date: 04/29/2014
Scale: 1" = 50'
Drawn By: TJS

Thistle Unit #50
Devon Energy Corporation
Lea County, New Mexico
Figure 1 - Site Plan



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	Q	Q	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02386		LE			4	1	2	04	24S	34E	643962	3569290*	2050	575	475	100
C 02397		LE			4	1	2	04	24S	34E	643962	3569290*	2050	575	475	100
C 02387		LE					1	11	24S	34E	646513	3567613*	2175	62	40	22

Average Depth to Water: 330 feet

Minimum Depth: 40 feet

Maximum Depth: 475 feet

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 645967

Northing (Y): 3569719

Radius: 3000

*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.

4/23/14 8:56 AM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER

Sheldon Hitchcock

From: eticket@nm811.org
Sent: Tuesday, April 22, 2014 11:06 AM
To: Sheldon Hitchcock
Subject: DO NOT REPLY: Request 2014171232

New Mexico One Call

Locate Request Confirmation Header Code: EMERGENCY

Request Type:

Ticket No: 2014171232 Seq. No: 0

Update of:

Original Call Date: 04/22/2014 Time: 10:48:17 AM OP: 215

Transmit Date: 04/22/2014 Time: 11:05:40 AM

Work to Begin Date: 04/22/2014 Time: 12:48:00 PM

Company: TALON LPE

Contact Name: SHELDON HITCHCOCK Contact Phone: (575)689-5198

Alternate Contact: ROBBIE DEROSIER Alternate Phone: (512)673-7429

Best Time to Call: Fax No:

Cell Phone: Pager No:

Email: slhitchcock@talonlpe.com

State: NM County: LEA City: RURAL LEA

Address: , THISTLE #050H

To Address:

Nearest Intersecting Street: GPS: 32.2544682714568 & -103.55376815041

2nd Intersecting Street:

Subdivision:

Latitude: 32.25459300 Longitude: -103.55375200

Zip Code:

Grid:

Township: 23S Range: 33E Section 1/4: 34 SE

Township: 23S Range: 33E Section 1/4: 34 SW

Township: 23S Range: 33E Section 1/4: 34 NE

Township: 23S Range: 33E Section 1/4: 34 NW

Location of Work: FROM NM-128 AND CR-J2/BRININSTOOL RD, GO NE ON
BRININSTOOL RD GO 3.2MI, E ON CALICHE RD GO
0.46MI, CONT NE 220FT, E GO 0.3MI TO THISTLE UNIT
#6, FROM SE CORNER OF WELL PAD GO E APPR 600FT TO
NW PAD OF THISTLE #50H LOCATION APPR 267FT: SPOT

Remarks: ENTIRE WELL LOCATION, NO HAZARDS, OPEN ACCESS,
CREW ON WAY

GPS: 32.2544682714568 & -103.55376815041

Type of Work: EMERGENCY-SOIL REMEDIATION

Private Property: Street: Overhead Lines: Blasting:

Easement: Mechanical Boring: Premarked:



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

April 24, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: THISTLE UNIT 50 H

Enclosed are the results of analyses for samples received by the laboratory on 04/23/14 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0' (H401225-01)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	36.0	5.00	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	181	5.00	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	69.7	5.00	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	233	15.0	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	520	30.0	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 115 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	4380	50.0	04/24/2014	ND	181	90.4	200	1.53		
DRO >C10-C28	11700	50.0	04/24/2014	ND	193	96.3	200	0.969		

Surrogate: 1-Chlorooctane 207 % 65.2-140

Surrogate: 1-Chlorooctadecane 266 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 0.5' (H401225-02)

BTX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.324	0.050	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	1.56	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	0.902	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	3.28	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	6.07	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 136 % 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	32.0	16.0	04/24/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	106	10.0	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	519	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 92.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H401225-03)

BTX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	0.163	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	0.066	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	0.233	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	0.462	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	04/24/2014	ND	400	100	400	0.00	

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	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 101 % 63.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	04/23/2014	Sampling Date:	04/23/2014
Reported:	04/24/2014	Sampling Type:	Soil
Project Name:	THISTLE UNIT 50 H	Sampling Condition:	Cool & Intact
Project Number:	700794.102.01	Sample Received By:	Jodi Henson
Project Location:	P - 34 - 23 - 33		

Sample ID: S-1 2' (H401225-04)

BTX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.968	0.200	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	8.56	0.200	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	4.58	0.200	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	15.6	0.600	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	29.7	1.20	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	04/24/2014	ND	400	100	400	0.00	
TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	59.5	10.0	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	277	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 93.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H401225-05)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	39.1	2.00	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	193	2.00	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	61.7	2.00	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	195	6.00	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	489	12.0	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 120 % 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	112	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2090	10.0	04/24/2014	ND	181	90.4	200	1.53		
DRO >C10-C28	4010	10.0	04/24/2014	ND	193	96.3	200	0.969		

Surrogate: 1-Chlorooctane 149 % 63.2-140

Surrogate: 1-Chlorooctadecane 154 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	04/23/2014	Sampling Date:	04/23/2014
Reported:	04/24/2014	Sampling Type:	Soil
Project Name:	THISTLE UNIT 50 H	Sampling Condition:	Cool & Intact
Project Number:	700794.102.01	Sample Received By:	Jodi Henson
Project Location:	P - 34 - 23 - 33		

Sample ID: S-2 0.5' (H401225-06)

BTX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.237	0.050	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	1.66	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	0.961	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	3.48	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	6.34	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 133 % 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	32.0	16.0	04/24/2014	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	163	10.0	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	745	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 97.5 % 63.2-140

Surrogate: 1-Chlorooctadecane 89.2 % 63.6-154

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H401225-07)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	0.115	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 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	04/24/2014	ND	400	100	400	3.92	

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	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 120 % 65.2-140

Surrogate: 1-Chlorooctadecane 121 % 63.6-154

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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' (H401225-08)

BTX 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.170	0.050	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	1.25	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	0.903	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	3.28	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	5.61	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 153 % 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	04/24/2014	ND	400	100	400	3.92	

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	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 107 % 63.6-154

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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H401225-09)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	39.1	5.00	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	231	5.00	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	95.2	5.00	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	322	15.0	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTEX	687	30.0	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 126 % 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	400	16.0	04/24/2014	ND	400	100	400	3.92	
TPH 8015M			mg/kg		Analyzed By: CK				
					S-06				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

GRO C6-C10	7490	50.0	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	30500	50.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 309 % 65.2-140

Surrogate: 1-Chlorooctadecane 775 % 63.6-154

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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT: 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0.5 (H401225-10)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	88.0	5.00	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	325	5.00	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	91.6	5.00	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	292	15.0	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTEX	796	30.0	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 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	48.0	16.0	04/24/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK						5-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	9050	10.0	04/24/2014	ND	181	90.4	200	1.53		
DRO >C10-C28	13600	10.0	04/24/2014	ND	193	96.3	200	0.969		

Surrogate: 1-Chlorooctane 218 % 65.2-140

Surrogate: 1-Chlorooctadecane 302 % 63.6-154

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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H401225-11)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.434	0.050	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	0.729	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	0.103	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	0.276	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	1.54	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	04/24/2014	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRD C6-C10	23.1	10.0	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 104 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.9 % 63.6-154

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Analytical Results For:

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

Received: 04/23/2014
Reported: 04/24/2014
Project Name: THISTLE UNIT 50 H
Project Number: 700794.102.01
Project Location: P - 34 - 23 - 33

Sampling Date: 04/23/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 2' (H401225-12)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/24/2014	ND	1.59	79.3	2.00	4.90	
Toluene*	0.066	0.050	04/24/2014	ND	1.62	80.9	2.00	4.50	
Ethylbenzene*	<0.050	0.050	04/24/2014	ND	1.62	81.2	2.00	3.21	
Total Xylenes*	<0.150	0.150	04/24/2014	ND	4.89	81.5	6.00	3.14	
Total BTX	<0.300	0.300	04/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 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	04/24/2014	ND	400	100	400	3.92	

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	04/24/2014	ND	181	90.4	200	1.53	
DRO >C10-C28	<10.0	10.0	04/24/2014	ND	193	96.3	200	0.969	

Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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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.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS

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

Company Name: <u>Jalon/LPE</u>					BILL TO					ANALYSIS REQUIRED				
Project Manager: <u>Kimberly Wilson</u>					P.O. #:					<u>Chlorides</u> <u>TPH</u> <u>BTEX</u>				
Address: <u>408 W. 1st St</u>					Company: <u>Jalon</u>									
City: <u>Alameda</u> State: <u>NM</u> Zip: <u>88210</u>					Attn:									
Phone #: <u>575-746-8968</u> Fax #: <u>575-746-8905</u>					Address:									
Project #: <u>70094.102.01</u> Project Owner: <u>Debra</u>					City:									
Project Name: <u>Thistle Unit 504</u>					State: Zip:									
Project Location: <u>P-34-23-33</u>					Phone #:									
Sampler Name:					Fax #:									
FOR LAB USE ONLY						MATRIX		PRESERV.		SAMPLING				
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME	
<u>440225</u>														
1	<u>S-1 0'</u>	<u>6</u>										<u>4-23-14</u>	<u>12:00</u>	
2	<u>S-1 0.5'</u>	<u>6</u>										<u>12:02</u>		
3	<u>S-1 1'</u>	<u>6</u>										<u>12:03</u>		
4	<u>S-1 2'</u>	<u>6</u>										<u>12:10</u>		
5	<u>S-1 3'</u>	<u>6</u>												
6	<u>S-2 0'</u>	<u>6</u>										<u>12:15</u>		
7	<u>S-2 0.5'</u>	<u>6</u>										<u>12:37</u>		
8	<u>S-2 1'</u>	<u>6</u>										<u>12:40</u>		
9	<u>S-2 2'</u>	<u>6</u>										<u>12:44</u>		
10	<u>S-2 3'</u>	<u>6</u>												

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Relinquished By: <u>[Signature]</u>	Date: <u>4-23-14</u>	Received By: <u>[Signature]</u>	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By: <u>[Signature]</u>	Time: <u>2:25</u>	Received By: <u>[Signature]</u>	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) <u>5.60</u>			REMARKS: <u>Please RUSH !!</u>
Sampler - UPS - Bus - Other: <u>5.60</u>			
Sample Condition: Cool ☒ Intact ☒ Yes ☐ No ☐			CHECKED BY: <u>[Signature]</u>

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

#54



CHAIN-OF-CUSTODY AND ANALYSIS

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

Company Name: Talon/LPE		BILL TO		ANALYSIS REQUEST	
Project Manager: <i>Kimberly M. Wilson</i>		P.O. #:		Chlorides BTEX TPH	
Address: 408 W. Texas Ave.		Company: Talon/LPE			
City: Artesia State: NM Zip: 88210		Attn:			
Phone #: 575-746-8768 Fax #: 575-746-8905		Address:			
Project #: 700794.102.01 Project Owner: <i>Devon</i>		City:			
Project Name: <i>Thistle Unit SON</i>		State: Zip:			
Project Location: <i>P-34-23-33</i>		Phone #:			
Sampler Name:		Fax #:			

Lab I.D.	Sample I.D.	GRAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.		SAMPLING		DATE	TIME						
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER									
H401225																					
9	S-3 0'					/								12-3-14	12:56	/	/	/			
10	S-3 0.5'					/									12:59	/	/	/			
11	S-3 1'					/									1:01	/	/	/			
12	S-3 2'					/									1:02	/	/	/			
	S-3 3'					/										/	/	/			

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Relinquished By: <i>[Signature]</i>	Date: 12-23-14	Received By: <i>[Signature]</i>	Phone Result: ☐ Yes ☐ No	Add'l Phone #:
	Time: 2:25		Fax Result: ☐ Yes ☐ No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS: Please RUSH !!	
	Time:			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition Cool ☒ Intact ☒ Yes ☒ No ☐	CHECKED BY: <i>[Signature]</i>	

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