

District I  
1623 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, A. Tonk, 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

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

Surface Owner: <b>State</b>	Mineral Owner:	API #: <b>30-025-41302</b>
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LOCATION OF RELEASE

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

Type of Release: <b>Oil</b>	Volume of Release - <b>30 bbls Oil</b>	Volume Recovered - <b>10 bbls Oil</b>
Source of Release: <b>Overflow Frac Tank</b>	Date and Hour of Occurrence <b>4/22/14</b>	Date and Hour of Discovery <b>4/22/14</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>NMOCD / Geoffrey Lelking</b>	
By Whom? <b>Shammy Ingram</b>	Date and Hour: <b>4/22/14</b>	
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.\* A transport driver overflowed the frac tank causing a release of 30 barrels of oil to be released on location. A vac truck and Teton/EP personnel were immediately contacted for the correction of this release. The vac truck recovered 10 barrels of oil. Teton made an emergency Cns Call with NM 811. The frac 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 (RRAL) 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.

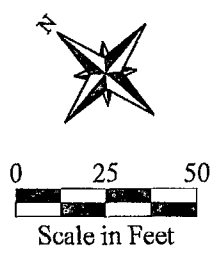
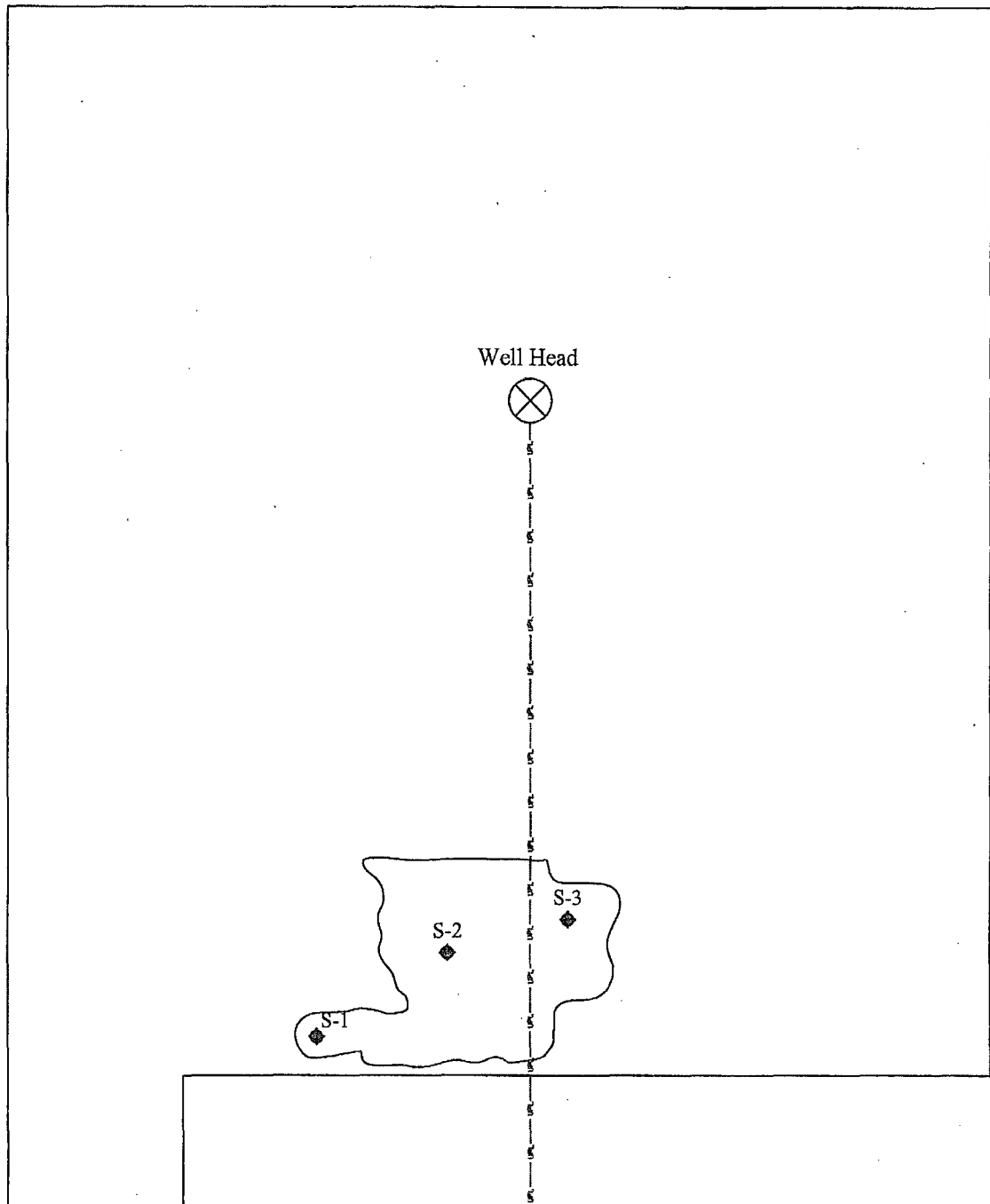
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: <i>Shammy Ingram</i>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Shammy Ingram</b>	Approved by: <i>[Signature]</i> <b>District Supervisor</b>	
Title: <b>Admin Field Support</b>	Approval Date: <b>7-8-14</b>	Expiration Date: <b>---</b>
Date: <b>4/30/2014</b> Phone: <b>375-748-0174</b>	Conditions of Approval: <b>---</b>	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

7-19-3154  
Ogrod 6137  
NTO 1919  
Pto 1918 955602

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.

## 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](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,

A handwritten signature in cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**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)**

BTEX 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 BTEX	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					

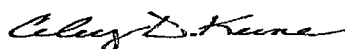
Surrogate: 1-Chlorooctane 207 % 65.2-140

Surrogate: 1-Chlorooctadecane 266 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celest D. Keene, Lab Director/Quality Manager

**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 0.5' (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	

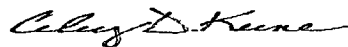
Surrogate: 1-Chlorooctane 92.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 87.1 % 63.6-154

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\* = 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-1 1' (H401225-03)**

BTEX 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 BTEX	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 % 65.2-140

Surrogate: 1-Chlorooctadecane 106 % 63.6-154

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\*=Accredited Analyte

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*Celest D. Keene*

Celest D. Keene, Lab Director/Quality Manager



**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 2' (H401225-04)**

BTEX 8021B			mg/kg		Analyzed By: CK			S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	0.968	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 BTEX	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	

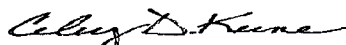
Surrogate: 1-Chlorooctane 93.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 91.3 % 63.6-154

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\*=Accredited Analyte

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Celest 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 80218		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					

Surrogate: 1-Chlorooctane 149 % 65.2-140

Surrogate: 1-Chlorooctadecane 154 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**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 0.5' (H401225-06)**

BTEx 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.237	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 BTEx	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					

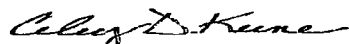
Surrogate: 1-Chlorooctane 97.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.2 % 63.6-154

Cardinal Laboratories

\*=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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\*=Accredited Analyte

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*Celestine D. Keene*

Celestine 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 2' (H401225-08)**

BTEx 8021B		mg/kg		Analyzed By: CK				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.170	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 BTEx	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									
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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Celey D. Keene, Lab Director/Quality Manager

**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		

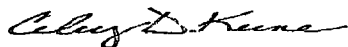
Surrogate: 1-Chlorooctane 309 % 65.2-140

Surrogate: 1-Chlorooctadecane 775 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**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					
				S-04					

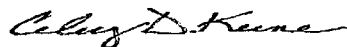
Surrogate: 1-Chlorooctane 218 % 65.2-140

Surrogate: 1-Chlorooctadecane 302 % 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-3 1' (H401225-11)**

BTEx 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 BTEX	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
GRO 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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Celey D. Keene, Lab Director/Quality Manager



**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	

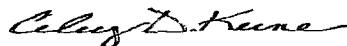
Surrogate: 1-Chlorooctane 113 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

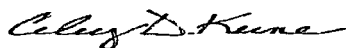
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager



Page 1 of 2

Page 15 of 16

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Jalon/LPE</u>		BILL TO		ANALYSIS REQUEST																						
Project Manager: <u>Kimberly Wilson</u>		P.O. #:		<u>Chloride</u> <u>TPH</u> <u>BTEX</u>																						
Address: <u>408 W. Texas</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>710794.102.01</u> Project Owner: <u>Devon</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	Lab I.D.	Sample I.D.	(GRAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME											
	<u>H4D1225</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>	/	/	/								
		<u>S-1 3'</u>	<u>6</u>				/					/				/	/	/								
	5	<u>S-2 0'</u>	<u>6</u>				/					/			<u>12:15</u>	/	/	/								
	6	<u>S-2 0.5'</u>	<u>6</u>				/					/			<u>12:27</u>	/	/	/								
	7	<u>S-2 1'</u>	<u>6</u>				/					/			<u>12:40</u>	/	/	/								
	8	<u>S-2 2'</u>	<u>6</u>				/					/			<u>12:44</u>	/	/	/								
		<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>Yodi Benson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>2:25</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:		<u>Please RUSH !!</u>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <u>[Signature]</u>		
Sampler - UPS - Bus - Other:	Cool Intact			
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			
	<input type="checkbox"/> No <input type="checkbox"/> No			

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

#54



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE				<b>BILL TO</b>				<b>ANALYSIS REQUEST</b>																					
Project Manager: <i>Kimberly M. Wilson</i>				P.O. #:				<div style="display: flex; flex-direction: column; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Chlorides</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">BTEX</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">TPH</div> </div>																					
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 50H</i>				State: Zip:																									
Project Location: <i>P-34-23-33</i>				Phone #:																									
Sampler Name:				Fax #:																									
FOR LAB USE ONLY																													
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX				PRESERV.	SAMPLING																				
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
H4D1225																													
9	S-3 0'					/				/			4-23-14	12:56	/	/	/												
10	S-3 0.5'					/				/				12:59	/	/	/												
11	S-3 1'					/				/				1:01	/	/	/												
12	S-3 2'					/				/				1:02	/	/	/												
	<del>S-3 3'</del>					<del>/</del>				<del>/</del>					<del>/</del>	<del>/</del>	<del>/</del>												

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 the client for the 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 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: <i>[Signature]</i>	Date: 4-23-14	Received By: <i>[Signature]</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: 2:25		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <i>[Signature]</i>	Date:	Received By:	REMARKS:	
	Time:		Please <b>RUSH!!</b>	
Delivered By: (Circle One)	Sample Condition	CHECKED BY: <i>[Signature]</i>		
Sampler - UPS - Bus - Other:	Cool / Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

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

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