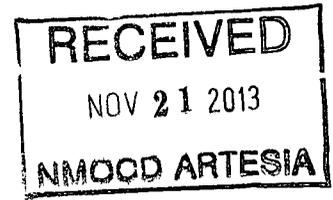




November 6, 2013



Mr. Aaron Kidd  
**Devon Energy Corporation**  
6488 Seven Rivers Hwy.  
Artesia, NM 88210

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

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

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

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

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

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Subject: **Soil Assessment and Remediation Work Plan**  
Devon Energy Corporation  
Snapping 10 Federal #1

Dear Mr. Robertson

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**

The release occurred on September 29, 2013 at 3:00 a.m.

**Background Information**

The Snapping 10 Federal #1 is located approximately sixty (60) miles Southeast of Carlsbad, New Mexico. The legal location for this site is Unit Letter B of Section 10, Township 23S, Range 31E in Eddy County, New Mexico. More specifically the Latitude and Longitude for the release are 32.063922 North and -103.763906 West. A site plan is presented in Appendix I.

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 Tonuco loamy fine sand with 0 to 3 percent slopes (eroded). This soil type has a restrictive petrocalcic layer at 6 to 20 inches below ground surface (bgs). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene 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 292-feet 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:

Depth to ground water >100'  
Wellhead protection area >1000'  
Distance to surface water body >1000'

## Incident Description

A flowline leaked causing a release of 10bbls of crude oil. The flowline was repaired and put back into service. No fluid was recovered. Talon personnel mobilized on October 15, 2013 to conduct a site assessment and perform initial sampling activities. Talon personnel mobilized again on October 23, 2013 to further vertically delineate the site utilizing a hand auger. Refusal was encountered (caliche) at a depth of 2-feet bgs which prevented any further vertical delineation by hand. A summary of the referenced sampling activities is provided below.

## Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg)	
				GRO	DRO
S-1	0	66.0	ND	982	10200
S-1	1	996	--	11800	14200
S-1 refusal	2	23.7	--	177	494
S-2	0	1.92	ND	11.6	63.5
S-3	0	66.2	ND	751	7860
S-3	1	1380	--	15300	16300
S-3 refusal	2	396	--	3600	4670
S-4	0	116	64	1950	22800
S-4	1	784	--	8600	9570
S-4 refusal	2	520	--	7210	8910
S-5	0	16.7	ND	188	5750
S-5	1	ND	--	ND	ND
S-5 refusal	2	ND	--	ND	ND
S-6	0	158	368	2120	12500
S-6	1	11.6	--	152	414
S-6 refusal	2	12.3	--	133	410
S-7	0	1.13	ND	32.2	756
S-7	1	302	--	2800	3580
S-7 refusal	2	25.6	--	379	932

(ND) Analyte not detected

(--) Analyte not tested

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

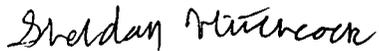
## Proposed Remedial Actions

- The impacted area in the vicinity of sample locations S-5 & S-6 will be excavated to a depth of 1-foot bgs.
- The impacted area in the vicinity of sample locations S-1 & S-7 will be excavated to a depth of 2-feet bgs.
- The impacted area in the vicinity of sample locations S-3 & S-4 will be excavated to a depth of 2.5-feet bgs and confirmation soil samples will be taken to insure that all of the impacted soil was removed.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility for disposal.
- Upon receipt of satisfactory analytical data from the confirmation sampling and approval to backfill by the OCD, the excavated area will be backfilled with sand, contoured to match the surrounding location and seeded with BLM seed mixture #2.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768.

Respectfully submitted,

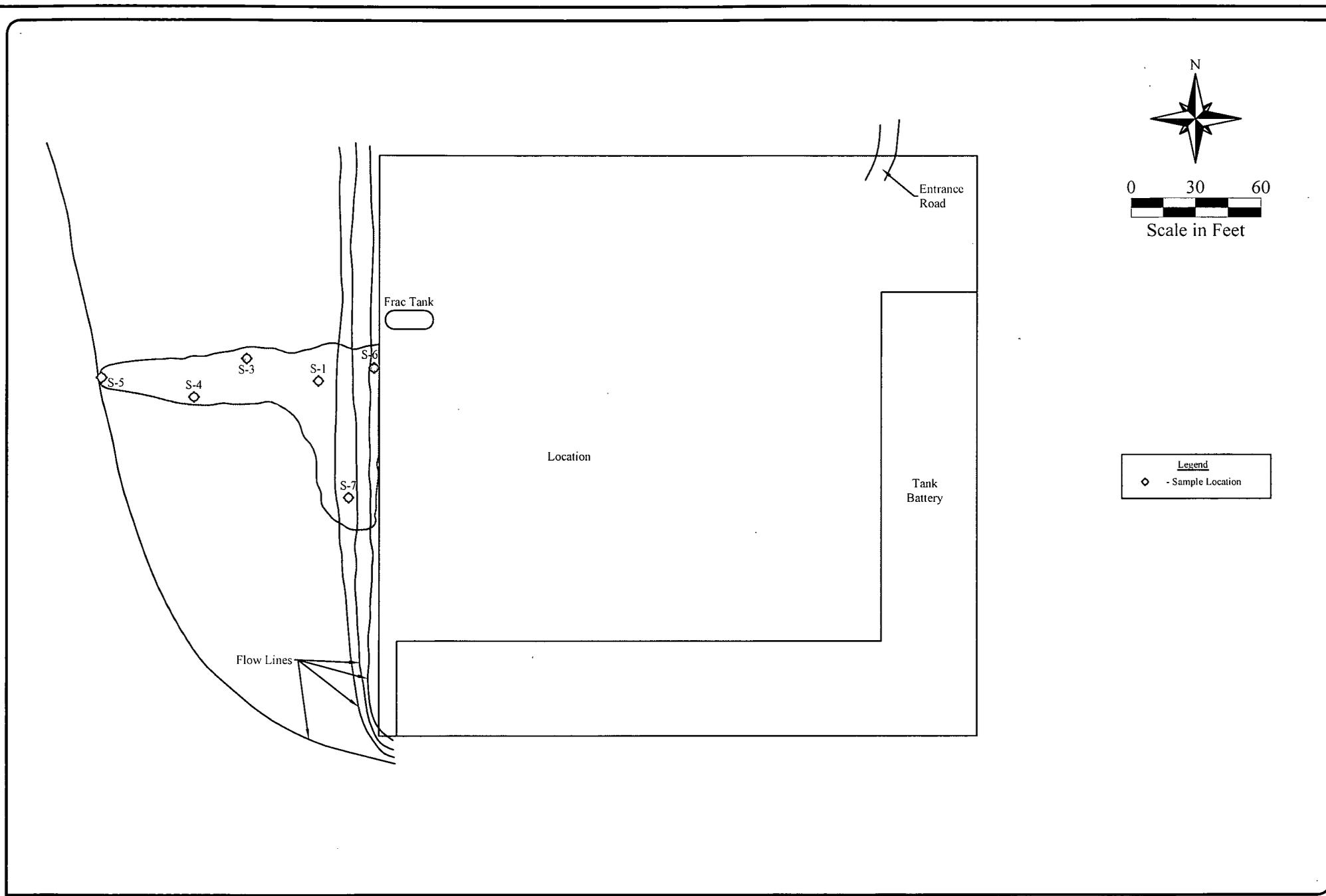
TALON/LPE

  
Sheldon Hitchcock  
Environmental Scientist

  
David J. Adkins  
District Manager

**CC.**  
Mr. Jeffery Robertson  
**Bureau of Land Management**  
620 E Green St.  
Carlsbad, NM 88210

# SITE PLAN



Date: 10/31/2013

Scale: 1" = 60'

Drawn By: TJS

Snapping 10 Fed #1  
 Devon Energy Corporation  
 Eddy County, New Mexico  
 Figure 1 - Site Plan

# **GROUNDWATER DATA**

**INITIAL C-141**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 02090			ED	4	4	01	26S	31E		620329	3548533*	3346	350	335	15
C 03554 POD1	C		ED	2	1	4	01	26S	31E	620547	3549148	3754	630	300	330
C 01777	C		ED				08	26S	31E	613245	3547409*	3858	325	300	25
C 02248			ED	1	2	3	08	26S	31E	612942	3547316*	4167	300	292	8
C 02249			ED	1	2	3	08	26S	31E	612942	3547316*	4167	300	292	8

Average Depth to Water: **303 feet**

Minimum Depth: **292 feet**

Maximum Depth: **335 feet**

**Record Count: 5**

**Basin/County Search:**

County: Eddy

**UTMNAD83 Radius Search (in meters):**

Easting (X): 617094

Northing (Y): 3547676

Radius: 5000

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

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

State of New Mexico  
Energy Minerals and Natural Resources

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company Devon Energy	Contact Tracy Kidd
Address P.O. Box 250, Artesia, NM 88211	Telephone No. 575-513-0628
Facility Name Snapping 10 Federal 1H	Facility Type Oil Well
Surface Owner	Mineral Owner
API No. 30-015-37899	

**LOCATION OF RELEASE**

Unit Letter B	Section 10	Township 26S	Range 31E	Feet from the 330	North/South Line NORTH	Feet from the 1980	East/West Line EAST	County EDDY
------------------	---------------	-----------------	--------------	----------------------	---------------------------	-----------------------	------------------------	----------------

Latitude 32.0639223225352 Longitude -103.763906284766

**NATURE OF RELEASE**

Type of Release Spill	Volume of Release 10 bbls	Volume Recovered 0
Source of Release Poly line leak	Date and Hour of Occurrence 9/29/13, 3:00 AM	Date and Hour of Discovery 9/29/13, 3:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jeffery Robins/BLM, Mike Bratcher/OCD	
By Whom? Aaron Kidd, Assistant Foreman	Date and Hour 10/01/2013, BLM 8:30am, OCD 8:45am	
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.\*  
At the Snapping 10-3, a poly line leaked 10 bbls of oil through a pin size hole.

Describe Area Affected and Cleanup Action Taken.\*  
At the Snapping 10-3, a poly line leaked 10 barrels of oil through a pin size hole. The well tester turned production into the frac tank at 8:30 P.M on 9/28/13. and at 3:00 A.M on 9/29/13 he realized the poly fill line had been leaking beside the frac tank. It was a small pin hole in the poly line, over the period of 6.5 hours it leaked approximately 10 bbls of oil. The poly line was cut and replaced and put back into production and no fluid was recovered.

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>Graciela C. Bustamante</i>		<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Graciela C. Bustamante		Approved by Environmental Specialist:	
Title: Field Admin. Tech	Approval Date:	Expiration Date:	
E-mail Address: Gracie.Bustamante@dvn.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10/02/2013	Phone: 575-746-5561		

\* Attach Additional Sheets If Necessary

# **LABORATORY RESULTS**

October 22, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 / SURFACE (H302498-01)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>2.13</b>	1.00	10/18/2013	ND	1.78	89.1	2.00	0.150		
<b>Toluene*</b>	<b>16.4</b>	1.00	10/18/2013	ND	1.90	95.2	2.00	2.95		
<b>Ethylbenzene*</b>	<b>5.32</b>	1.00	10/18/2013	ND	1.94	96.8	2.00	3.35		
<b>Total Xylenes*</b>	<b>42.2</b>	3.00	10/18/2013	ND	5.87	97.9	6.00	6.19		
<b>Total BTEX</b>	<b>66.1</b>	6.00	10/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 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	10/16/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>982</b>	10.0	10/16/2013	ND	191	95.3	200	2.37			
<b>DRO &gt;C10-C28</b>	<b>10200</b>	10.0	10/16/2013	ND	191	95.5	200	3.62			

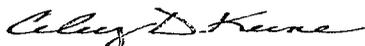
Surrogate: 1-Chlorooctane 169 % 65.2-140

Surrogate: 1-Chlorooctadecane 322 % 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:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-2 / SURFACE (H302498-02)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	<b>0.200</b>	0.050	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	<b>0.182</b>	0.050	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	<b>1.53</b>	0.150	10/18/2013	ND	5.87	97.9	6.00	6.19		
<b>Total BTEX</b>	<b>1.92</b>	0.300	10/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 123 % 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	10/16/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11.6</b>	10.0	10/17/2013	ND	191	95.3	200	2.37		
<b>DRO &gt;C10-C28</b>	<b>63.5</b>	10.0	10/17/2013	ND	191	95.5	200	3.62		

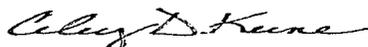
Surrogate: 1-Chlorooctane 97.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 103 % 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:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 / SURFACE (H302498-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>1.80</b>	1.00	10/18/2013	ND	1.78	89.1	2.00	0.150		
<b>Toluene*</b>	<b>13.5</b>	1.00	10/18/2013	ND	1.90	95.2	2.00	2.95		
<b>Ethylbenzene*</b>	<b>5.58</b>	1.00	10/18/2013	ND	1.94	96.8	2.00	3.35		
<b>Total Xylenes*</b>	<b>45.4</b>	3.00	10/18/2013	ND	5.87	97.9	6.00	6.19		
<b>Total BTEX</b>	<b>66.2</b>	6.00	10/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 122 % 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	10/16/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>751</b>	10.0	10/16/2013	ND	191	95.3	200	2.37			
<b>DRO &gt;C10-C28</b>	<b>7860</b>	10.0	10/16/2013	ND	191	95.5	200	3.62			

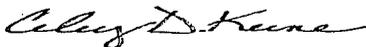
Surrogate: 1-Chlorooctane 181 % 65.2-140

Surrogate: 1-Chlorooctadecane 225 % 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:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 / SURFACE (H302498-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<5.00	5.00	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	24.0	5.00	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	10.5	5.00	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	81.6	15.0	10/18/2013	ND	5.87	97.9	6.00	6.19		
Total BTEX	116	30.0	10/18/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	10/16/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	1950	100	10/21/2013	ND	191	95.3	200	2.37			
DRO >C10-C28	22800	100	10/21/2013	ND	191	95.5	200	3.62			

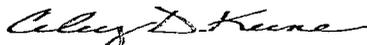
Surrogate: 1-Chlorooctane 352 % 65.2-140

Surrogate: 1-Chlorooctadecane 651 % 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:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-5 / SURFACE (H302498-05)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	1.85	0.200	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	1.68	0.200	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	13.2	0.600	10/18/2013	ND	5.87	97.9	6.00	6.19		
<b>Total BTEX</b>	<b>16.7</b>	<b>1.20</b>	<b>10/18/2013</b>	<b>ND</b>						

Surrogate: 4-Bromofluorobenzene (PIL) 135 % 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	10/16/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	188	10.0	10/16/2013	ND	191	95.3	200	2.37		
DRO >C10-C28	5750	10.0	10/16/2013	ND	191	95.5	200	3.62		

Surrogate: 1-Chlorooctane 133 % 65.2-140

Surrogate: 1-Chlorooctadecane 216 % 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:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-6 / SURFACE (H302498-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>4.80</b>	2.00	10/18/2013	ND	1.78	89.1	2.00	0.150		
<b>Toluene*</b>	<b>40.2</b>	2.00	10/18/2013	ND	1.90	95.2	2.00	2.95		
<b>Ethylbenzene*</b>	<b>12.5</b>	2.00	10/18/2013	ND	1.94	96.8	2.00	3.35		
<b>Total Xylenes*</b>	<b>100</b>	6.00	10/18/2013	ND	5.87	97.9	6.00	6.19		
<b>Total BTEX</b>	<b>158</b>	12.0	10/18/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>368</b>	16.0	10/16/2013	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>2120</b>	100	10/21/2013	ND	191	95.3	200	2.37			
<b>DRO &gt;C10-C28</b>	<b>12500</b>	100	10/21/2013	ND	191	95.5	200	3.62			

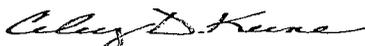
Surrogate: 1-Chlorooctane 278 % 65.2-140

Surrogate: 1-Chlorooctadecane 372 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

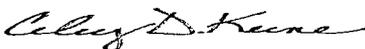
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
- 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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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

<b>Company Name:</b> Talon / CRE	<b>BILL TO</b>	<b>ANALYSIS REQUEST</b>
<b>Project Manager:</b> D. Hollings	<b>P.O. #:</b>	
<b>Address:</b> 408 W Texas Ave.	<b>Company:</b> Talon	
<b>City:</b> Artesia State: NM Zip: 88210	<b>Attn:</b>	
<b>Phone #:</b> <b>Fax #:</b>	<b>Address:</b>	
<b>Project #:</b> Snapping Project Owner: Degan	<b>City:</b>	
<b>Project Name:</b> <del>Red Bank</del> #10 Fed I *	<b>State:</b> <b>Zip:</b>	
<b>Project Location:</b>	<b>Phone #:</b>	
<b>Sampler Name:</b> G. Baeza	<b>Fax #:</b>	

FOR LAB USE ONLY		GRAB OR (COMP. # CONTAINERS	MATRIX					PRESERV		SAMPLING		DATE	TIME	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS	ANALYSIS		
Lab I.D.	Sample I.D.		GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :										
H302498																					
1	S-2 / Surface	/										10/18	9:30	/	/	/					
2	S-2 / Surface	/											9:35	/	/	/					
3	S-3 / Surface	/											9:38	/	/	/					
4	S-4 / Surface	/											9:40	/	/	/					
5	S-5 / Surface	/											9:42	/	/	/					
6	S-6 / Surface	/											9:53	/	/	/					

LEFT  
TOP  
Chloride

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<b>Relinquished By:</b>	<b>Date:</b> 10/15/13	<b>Received By:</b>	<b>Phone Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Phone #:</b>
	Time: 1:25		<b>Fax Result:</b> <input type="checkbox"/> Yes <input type="checkbox"/> No	<b>Add'l Fax #:</b>
<b>Relinquished By:</b>	<b>Date:</b> 10/18/13	<b>Received By:</b>	<b>REMARKS:</b>	
	Time: 1:25		* Project name changed as per David. 10/21/13 de	
<b>Delivered By: (Circle One)</b>	<b>Sample Condition</b>	<b>CHECKED BY:</b>		
Sampler - UPS - Bus - Other:	2.4°C <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			

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

October 29, 2013

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/23/13 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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/ga/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 1' (H302569-01)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>65.2</b>	5.00	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>342</b>	5.00	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>72.3</b>	5.00	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>516</b>	15.0	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>996</b>	30.0	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 137 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS				S-06		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>11800</b>	100	10/24/2013	ND	192	95.8	200	2.53		
<b>DRO &gt;C10-C28</b>	<b>14200</b>	100	10/24/2013	ND	189	94.6	200	3.08		

Surrogate: 1-Chlorooctane 418 % 65.2-140

Surrogate: 1-Chlorooctadecane 236 % 63.6-154

Cardinal Laboratories

\*—Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-1 2' (H302569-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>0.218</b>	0.050	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>5.15</b>	0.050	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>2.22</b>	0.050	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>16.1</b>	0.150	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>23.7</b>	0.300	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 249 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>177</b>	10.0	10/24/2013	ND	192	95.8	200	2.53		
<b>DRO &gt;C10-C28</b>	<b>494</b>	10.0	10/24/2013	ND	189	94.6	200	3.08		

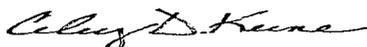
Surrogate: 1-Chlorooctane 78.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 82.4 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 1' (H302569-03)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>149</b>	10.0	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>509</b>	10.0	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>83.0</b>	10.0	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>640</b>	30.0	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>1380</b>	60.0	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 117 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>15300</b>	100	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>16300</b>	100	10/24/2013	ND	189	94.6	200	3.08			

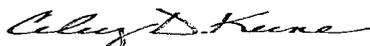
Surrogate: 1-Chlorooctane 473 % 65.2-140

Surrogate: 1-Chlorooctadecane 349 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-3 2' (H302569-04)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>31.5</b>	5.00	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>140</b>	5.00	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>27.6</b>	5.00	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>198</b>	15.0	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>396</b>	30.0	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PII) 117 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>3600</b>	10.0	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>4670</b>	10.0	10/24/2013	ND	189	94.6	200	3.08			

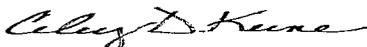
Surrogate: 1-Chlorooctane 187 % 65.2-140

Surrogate: 1-Chlorooctadecane 148 % 63.6-154

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 1' (H302569-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>12.3</b>	10.0	10/24/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>301</b>	10.0	10/24/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>55.6</b>	10.0	10/24/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>415</b>	30.0	10/24/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>784</b>	60.0	10/24/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 113 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>8600</b>	10.0	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>9570</b>	10.0	10/24/2013	ND	189	94.6	200	3.08			

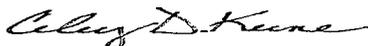
Surrogate: 1-Chlorooctane 291 % 65.2-140

Surrogate: 1-Chlorooctadecane 155 % 63.6-154

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-4 2' (H302569-06)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>12.7</b>	5.00	10/28/2013	ND	2.05	103	2.00	0.398		
<b>Toluene*</b>	<b>176</b>	5.00	10/28/2013	ND	2.14	107	2.00	0.0304		
<b>Ethylbenzene*</b>	<b>38.9</b>	5.00	10/28/2013	ND	2.17	108	2.00	0.263		
<b>Total Xylenes*</b>	<b>292</b>	15.0	10/28/2013	ND	6.55	109	6.00	1.57		
<b>Total BTEX</b>	<b>520</b>	30.0	10/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 116 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
<b>GRO C6-C10</b>	<b>7210</b>	10.0	10/24/2013	ND	192	95.8	200	2.53			
<b>DRO &gt;C10-C28</b>	<b>8910</b>	10.0	10/24/2013	ND	189	94.6	200	3.08			

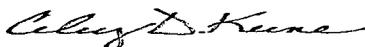
Surrogate: 1-Chlorooctane 285 % 65.2-140

Surrogate: 1-Chlorooctadecane 205 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-5 1' (H302569-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364		
Toluene*	<0.050	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484		
Ethylbenzene*	<0.050	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827		
Total BTEX	<0.300	0.300	10/25/2013	ND						

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

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/25/2013	ND	185	92.3	200	0.942		
DRO >C10-C28	<10.0	10.0	10/25/2013	ND	173	86.6	200	1.03		

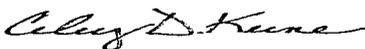
Surrogate: 1-Chlorooctane 84.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-5 2' (H302569-08)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364		
Toluene*	<0.050	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484		
Ethylbenzene*	<0.050	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395		
Total Xylenes*	<0.150	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827		
Total BTEX	<0.300	0.300	10/25/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 104 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	10/25/2013	ND	185	92.3	200	0.942		
DRO >C10-C28	<10.0	10.0	10/25/2013	ND	173	86.6	200	1.03		

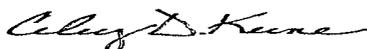
Surrogate: 1-Chlorooctane 82.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.8 % 63.6-154

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**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-6 1' (H302569-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.365</b>	0.200	10/25/2013	ND	1.89	94.4	2.00	0.364	
<b>Toluene*</b>	<b>2.63</b>	0.200	10/25/2013	ND	1.94	97.1	2.00	0.484	
<b>Ethylbenzene*</b>	<b>1.01</b>	0.200	10/25/2013	ND	1.95	97.7	2.00	0.395	
<b>Total Xylenes*</b>	<b>7.61</b>	0.600	10/25/2013	ND	5.87	97.8	6.00	0.0827	
<b>Total BTEX</b>	<b>11.6</b>	1.20	10/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 119 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>152</b>	10.0	10/25/2013	ND	185	92.3	200	0.942	
<b>DRO &gt;C10-C28</b>	<b>414</b>	10.0	10/25/2013	ND	173	86.6	200	1.03	

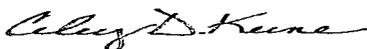
Surrogate: 1-Chlorooctane 96.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-6 2' (H302569-10)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.184</b>	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364	
<b>Toluene*</b>	<b>2.35</b>	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484	
<b>Ethylbenzene*</b>	<b>1.13</b>	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395	
<b>Total Xylenes*</b>	<b>8.64</b>	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827	
<b>Total BTEX</b>	<b>12.3</b>	0.300	10/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 178 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>133</b>	10.0	10/25/2013	ND	185	92.3	200	0.942	
<b>DRO &gt;C10-C28</b>	<b>410</b>	10.0	10/25/2013	ND	173	86.6	200	1.03	

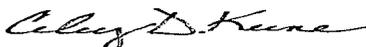
Surrogate: 1-Chlorooctane 96.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-7 0' (H302569-11)**

BTEX 8021B		mg/kg		Analyzed By: MS				S-04		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364		
Toluene*	<b>0.103</b>	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484		
Ethylbenzene*	<b>0.116</b>	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395		
Total Xylenes*	<b>0.910</b>	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827		
<b>Total BTEX</b>	<b>1.13</b>	0.300	10/25/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 129 % 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	10/29/2013	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>32.2</b>	10.0	10/25/2013	ND	185	92.3	200	0.942		
<b>DRO &gt;C10-C28</b>	<b>756</b>	10.0	10/25/2013	ND	173	86.6	200	1.03		

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

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**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-7 1' (H302569-12)**

BTEX 8021B		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Benzene*</b>	<b>9.63</b>	1.00	10/28/2013	ND	1.89	94.4	2.00	0.364		
<b>Toluene*</b>	<b>97.2</b>	1.00	10/28/2013	ND	1.94	97.1	2.00	0.484		
<b>Ethylbenzene*</b>	<b>23.4</b>	1.00	10/28/2013	ND	1.95	97.7	2.00	0.395		
<b>Total Xylenes*</b>	<b>172</b>	3.00	10/28/2013	ND	5.87	97.8	6.00	0.0827		
<b>Total BTEX</b>	<b>302</b>	6.00	10/28/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 172 % 89.4-126

TPH 8015M		mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>2800</b>	10.0	10/25/2013	ND	185	92.3	200	0.942		
<b>DRO &gt;C10-C28</b>	<b>3580</b>	10.0	10/25/2013	ND	173	86.6	200	1.03		

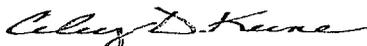
Surrogate: 1-Chlorooctane 165 % 65.2-140

Surrogate: 1-Chlorooctadecane 132 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

**Sample ID: S-7 2' (H302569-13)**

BTEX 8021B	mg/kg	Analyzed By: MS						S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Benzene*</b>	<b>0.063</b>	0.050	10/28/2013	ND	1.89	94.4	2.00	0.364	
<b>Toluene*</b>	<b>3.62</b>	0.050	10/28/2013	ND	1.94	97.1	2.00	0.484	
<b>Ethylbenzene*</b>	<b>2.50</b>	0.050	10/28/2013	ND	1.95	97.7	2.00	0.395	
<b>Total Xylenes*</b>	<b>19.4</b>	0.150	10/28/2013	ND	5.87	97.8	6.00	0.0827	
<b>Total BTEX</b>	<b>25.6</b>	0.300	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PII) 256 % 89.4-126

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>GRO C6-C10</b>	<b>379</b>	10.0	10/25/2013	ND	185	92.3	200	0.942	
<b>DRO &gt;C10-C28</b>	<b>932</b>	10.0	10/25/2013	ND	173	86.6	200	1.03	

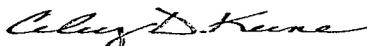
Surrogate: 1-Chlorooctane 109 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

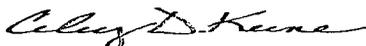
- S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED 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





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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name: <u>Talon/LPE</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <u>K. Wilson</u>		P.O. #:																									
Address: <u>408 W. Texas Ave</u>		Company: <u>Talon/LPE</u>																									
City: <u>Artesia</u>	State: <u>NM</u>	Zip: <u>88210</u>	Attn:																								
Phone #: <u>575-746-8768</u>	Fax #: <u>575-746-8905</u>	Address:																									
Project #:	Project Owner: <u>Devon</u>		City:																								
Project Name: <u>Snapping 10 Fed #1</u>		State:		Zip:																							
Project Location:		Phone #:																									
Sampler Name: <u>S. Hitchcock</u>		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.		GRAB OR (COMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	DATE	TIME	TPH	BTEX	Chlorides										
<u>H302-10</u>				6		/				/	/		<u>10/23/13</u>	<u>12:17</u>	/	/	/										
<u>115-70</u>				6		/				/	/		<u>10/23/13</u>	<u>12:19</u>	/	/	/										
<u>135-72</u>				6		/				/	/		<u>10/23/13</u>	<u>12:20</u>	/	/	/										

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Relinquished By:	<u>10/23/13</u>	Received By:	<u>Jodi Henson</u>	Phone Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:	
<u>Jodi Henson</u>	Time: <u>2:35</u>	Date:		Fax Result:	<input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:	
Relinquished By:		Received By:		REMARKS:			
	Time:						
Delivered By: (Circle One)		Sample Condition		CHECKED BY:			
Sampler - UPS - Bus - Other:		Cool Intact		<u>JA</u>			
		<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes					
		<input type="checkbox"/> No <input type="checkbox"/> No					

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

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