

July 21, 2015

Ms. Heather Patterson

### NMOCD District 2

**AMARILLO** 921 North Bivins Phone 806.467.0607 Fax 806.467.0622

811 S. 1st Street Amarillo. Texas 79107 Artesia, NM 88210

Subject:

Remedial Activities and Closure Report

Lime Rock Resources II-A, L.P.

Logan 35 Transfer Line

30-015-30439 (2RP-3084)

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575,746,8768

Fax 575.746.8905 Dear Ms. Patterson,

HOBBS

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

Lime Rock Resources II-A, L.P. (Lime Rock) has contract Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, and closure request are submitted herein.

The Logan 35 Transfer Line is located approximately twelve miles southeast of

### **Background Information**

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

Artesia, New Mexico. The legal location for this release is Unit Letter N, Section 35, Township 17 South and Range 27 East. More specifically the latitude and longitude for this release are 32.7863696 North and -104.25100100 West. A site plan is presented in Appendix I.

OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73II6 Phone 405,486,7030 Fax 806.467.0622

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Gypsum land-Cottonwood complex with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of older alluvial deposits of upland plains and piedmont areas. Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 100-feet below ground surface (bgs) according to the 2006 Chevron Texaco Groundwater Trend Map. See Appendix II for the referenced groundwater data.

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

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

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

**ENVIRONMENTAL CONSULTING ENGINEERING** DRILLING CONSTRUCTION SPILL MANAGEMENT **GENERAL CONTRACTING** 

Toll Free: 866.742.0742 www.talonlpe.com

### **Incident Description**

A downed power line caused a fire which ignited flowlines resulting in a release of approximately 300bbls of produced water and 5bbls of oil. BLM fire crews responded to extinguish the fire. Once the fire was extinguished and the area was made safe, crews began working to stop the flow of fluid from the lines and vacuum trucks were used to recover the standing fluid. Approximately 300bbls of produced water and 1bbl of oil were recovered.

Talon mobilized personnel to conduct an initial site assessment, begin emergency remedial activities and perform soil sampling within the impacted area. Laboratory results from the soil sampling activities are summarized in the table 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	TPH (mg/kg) DRO
S-1	0	ND	4560	14.5	1580
S-1	1	ND	9730	ND	11.4
S-1	2		48		
S-1	3		160		
S-2	0	1.13	15900	66.3	3580
S-2	1	ND	1960	ND	17.3
S-2	2		4000	4	
S-2	3		704		
S-2	4	<del></del>	272		
S-3	0	14.8	19800	68.2	703
S-3	1 1	0.67	10900	ND	159
S-3	2		4880		
S-3	3		9330	-	
S-3	4		8800		
S-3	5	- III	128		
S-4	0	ND	12000	ND	ND
S-4	1	ND	10700	ND	ND
S-4	2		1780		
S-4	3		1440		
S-4	4		96		
S-5	0	ND	8260	ND	ND
S-5	1	ND	512	ND	ND
S-5	2		ND	<u> -</u>	

(--) Analyte Not Tested

(ND) Analyte Not Detected

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

### **Remedial Actions**

- The area in the vicinity of sample location S-1 was excavated to a depth of 2-feet bgs.
- The area in the vicinity of sample location S-2 was excavated to a depth of 3-feet bgs.
- The area in the vicinity of sample location S-3 was excavated to a depth of 5-feet bgs.
- The area in the vicinity of sample location S-4 was excavated to a depth of 4-feet bgs.
- The area in the vicinity of sample location S-5 was excavated to a depth of 1-foot bgs.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavated area was backfilled with top soil, contoured to match the surrounding terrain and seeded with BLM #3/4 seed mixture. See Appendix IV for seeding label.

On behalf of Lime Rock Resources, we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

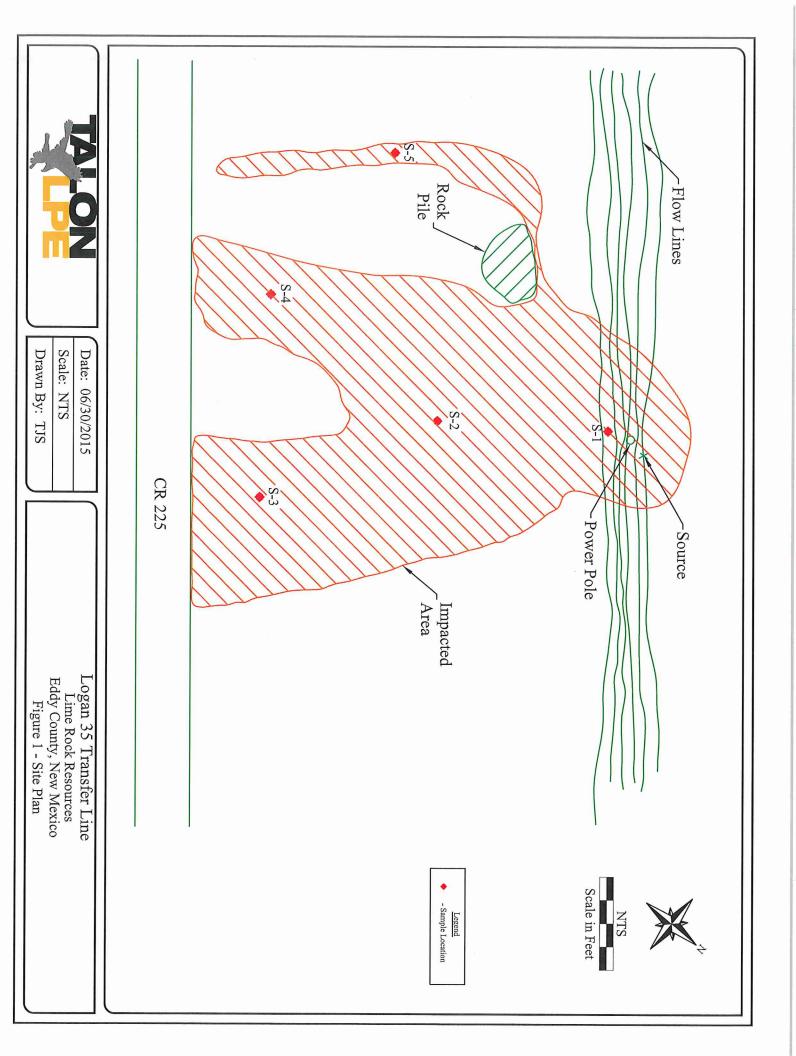
Sheldon L. Hitchcock

Project Manager

David J. Adkins

District Manager

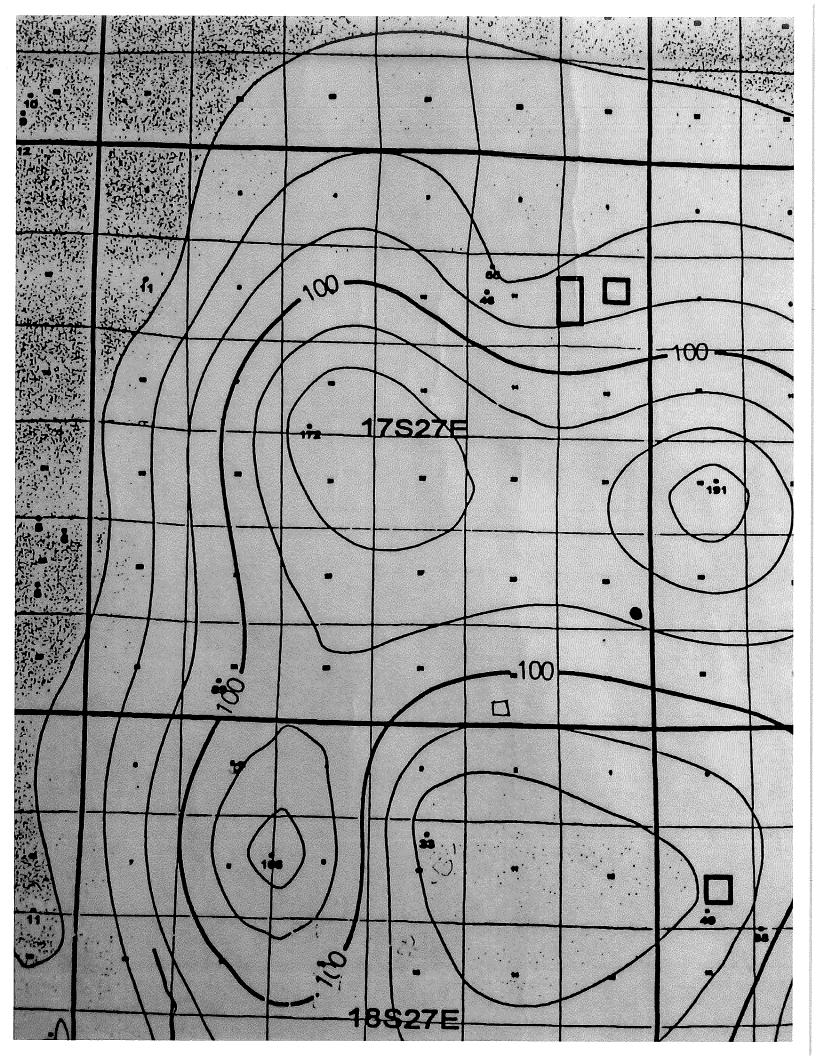
## **SITE PLAN**



# GROUNDWATER DATA INITIAL C-141

&

FINAL C-141



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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Attached

### **Release Notification and Corrective Action OPERATOR** Final Report Name of Company: LIME ROCK RESOURCES II-A, LP Contact: Mike Barrett Address: 1111 Bagby Street Suite 4600, Houston, TX 77002 Telephone No.: 575-623-8424 Facility Name: Logan 35 Water Transfer Line Facility Type: Transfer Line Surface Owner: Mineral Owner: API:30-015-30439 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County Eddy N 35 17S 27E Latitude 32.78584 N Longitude -104.25050 W NATURE OF RELEASE Type of Release: Mix Fluids Volume of Release: 350 bbls PW Volume Recovered: 300 bbls PW 5 bbls Oil 5 bbls Oil Source of Release: Downed Power Line Date and Hour of Occurrence: Date and Hour of Discovery: 6/25/2015 6/25/2015 3:30 pm @ 3:30 pm Was Immediate Notice Given? If YES, To Whom? ☑ Yes ☐ No ☐ Not Required BLM/Jeffery Robertson & OCD/Mike Bratcher - voicemail By Whom? Sheldon Hitchcock with Talon/LPE Date and Hour :6/25/2015 @ 4:00 pm Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken, \* A downed power line ignited causing a fire which melted the flow lines. The facility and wells were shut in. The BLM fire department responded. The lines were cut and caped. A vac truck was immediately called to the site and recovered 300 barrels of produced water and 1 barrel of oil. Talon/LPE was contacted for the emergency response. Describe Area Affected and Cleanup Action Taken.\* Talon mobilized personnel and equipment for emergency cleanup and sampling. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Michael Barrett Title: Production Supervisor Approval Date: **Expiration Date:** E-mail Address: mbarrett@limerockresources.com Conditions of Approval:

Date: 6/26/2015

Phone: 575-623-8424

<sup>\*</sup> Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
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Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

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: LIME ROCK RESOURCES II-A, LP Contact: Mike Barrett Telephone No.: 575-623-8424 Address: 1111 Bagby Street Suite 4600, Houston, TX 77002 Facility Type: Transfer Line Facility Name: Logan 35 Water Transfer Line Surface Owner: BLM Mineral Owner: BLM API:30-015-30439 LOCATION OF RELEASE Township Feet from the North/South Line Feet from the East/West Line County Eddy Unit Letter Section Range N Latitude 32.78584 N Longitude -104.25050 W NATURE OF RELEASE Volume Recovered: 300 bbls PW Type of Release: Mix Fluids Volume of Release: 350 bbls PW 5 bbls Oil 1 bbl Oil Date and Hour of Occurrence: Date and Hour of Discovery: 6/25/2015 Source of Release: Downed Power Line 6/25/2015 3:30 pm @ 3:30 pm Was Immediate Notice Given? If YES, To Whom? BLM/Jeffery Robertson & OCD/Mike Bratcher - voicemail By Whom? Sheldon Hitchcock with Talon/LPE Date and Hour: 6/25/2015 @ 4:00 am Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* A downed power line ignited causing a fire which melted the flow lines. The facility and wells were shut in. The BLM fire department responded to extinguish the fire. Once the fire was out the flowlines were cut and caped with valves and later repaired and put back into service. Vacuum trucks were immediately called to the site and recovered 300 barrels of produced water and 1 barrel of oil. Talon/LPE was contacted for the emergency response. Describe Area Affected and Cleanup Action Taken.\* Talon mobilized personnel and equipment for emergency response, site assessment, soil sampling and generation of the work plan. Upon approval of the work plan the remediation was conducted per the approved work plan. The excavation was backfilled, contoured to match the surrounding terrain and seeded. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Michael Barrett Title: Production Supervisor Approval Date: **Expiration Date:** E-mail Address: mbarrett@limerockresources.com Conditions of Approval: Attached

Date: 7/21/2015 Phone: 575-623-8424

\* Attach Additional Sheets If Necessary

## LABORATORY RESULTS



June 29, 2015

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: LOGAN 35 TRANSFER LINE

Enclosed are the results of analyses for samples received by the laboratory on 06/26/15 14:00.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

06/26/2015

Reported:

06/29/2015

Project Name:

LOGAN 35 TRANSFER LINE

Project Number: Project Location: NONE GIVEN NOT GIVEN Sampling Date:

06/26/2015

Sampling Type:

Soil

Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

### Sample ID: S-1 0 ' (H501658-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4560	16.0	06/29/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	14.5	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	1580	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	120 %	6 47.2-152	7					· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctadecane	154 %	6 52.1-170	5						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Received:

06/26/2015

Reported:

06/29/2015

Project Name: Project Number: LOGAN 35 TRANSFER LINE

NONE GIVEN Project Location: NOT GIVEN

Sampling Date:

Sampling Type: Soil Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

06/26/2015

### Sample ID: S-1 1' (H501658-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	61-154	j						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	06/29/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	11.4	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	111 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	130 %	6 52.1-170	5						

### Sample ID: S-1 2 ' (H501658-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/29/2015	ND	416	104	400	3.92	

### Cardinal Laboratories

\*=Accredited Analyte

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

Received:

06/26/2015

Reported:

06/29/2015

Project Name: Project Number: LOGAN 35 TRANSFER LINE

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

Sampling Type: Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

06/26/2015

Soil

Sample ID: S-1 3 ' (H501658-04)

Chlorid	e, SM45	OOCI-B
---------	---------	--------

### mg/kg

### Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	06/29/2015	ND	416	104	400	0.00	

### Sample ID: S-2 0' (H501658-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.060	0.050	06/29/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	0.252	0.050	06/29/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	0.297	0.050	06/29/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	0.525	0.150	06/29/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	1.13	0.300	06/29/2015	ND					

Surrogate:	4-Bromof	luorobenzene	(PIL
------------	----------	--------------	------

109 %

61-154

mg/	Tax .	52						
nig/	кд	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
15900	16.0	06/29/2015	ND	416	104	400	0.00	
mg/kg		Analyzed By: MS						S-06
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
66.3	50.0	06/26/2015	ND	176	88.0	200	2.67	
3580	50.0	06/26/2015	ND	202	101	200	2.63	
	15900 mg/ Result 66.3	15900 16.0 mg/kg  Result Reporting Limit 66.3 50.0	15900         16.0         06/29/2015           mg/kg         Analyze           Result         Reporting Limit         Analyzed           66.3         50.0         06/26/2015	15900         16.0         06/29/2015         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           66.3         50.0         06/26/2015         ND	15900         16.0         06/29/2015         ND         416           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           66.3         50.0         06/26/2015         ND         176	15900         16.0         06/29/2015         ND         416         104           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           66.3         50.0         06/26/2015         ND         176         88.0	15900         16.0         06/29/2015         ND         416         104         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           66.3         50.0         06/26/2015         ND         176         88.0         200	15900       16.0       06/29/2015       ND       416       104       400       0.00         mg/kg       Analyzed By: MS         Result       Reporting Limit       Analyzed       Method Blank       BS       % Recovery       True Value QC       RPD         66.3       50.0       06/26/2015       ND       176       88.0       200       2.67

Surrogate: 1-Chlorooctane

135 %

47.2-157

Surrogate: 1-Chlorooctadecane

189 %

52.1-176

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg & Kreens

Celey D. Keene, Lab Director/Quality Manager



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

Received:

06/26/2015

Reported:

06/29/2015

Project Name:

LOGAN 35 TRANSFER LINE

Project Number: Project Location:

NONE GIVEN

Sampling Date:

06/26/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 1' (H501658-06)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	06/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	17.3	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	114 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	134 9	% 52.1-170	5						

### Sample ID: S-2 2' (H501658-07)

Chloride, SM4500Cl-B	mg/kg		Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	06/29/2015	ND	416	104	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keene



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

Received: Reported: 06/26/2015

06/29/2015

Project Name: Project Number: LOGAN 35 TRANSFER LINE

NONE GIVEN Project Location: NOT GIVEN

Sampling Date:

Sampling Type:

Soil Sampling Condition:

104

Sample Received By:

Cool & Intact

06/26/2015

Jodi Henson

### Sample ID: S-2 3 ' (H501658-08)

Sample ID: S-2 4' (H501658-09)

Chloride, SM4500CI-B

Chloride

Chlori

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

Analyzed 06/29/2015 Method Blank ND

BS 416 % Recovery

True Value QC

400

RPD

0.00

Qualifier

704 16.0

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

								the state of the s	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
ride	272	16.0	06/29/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:

06/26/2015

Reported:

06/29/2015

Project Name:

LOGAN 35 TRANSFER LINE

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

Date: 06/26/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-3 0' (H501658-10)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.77	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	4.28	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	3.47	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	5.24	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	14.8	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 %	61-154							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19800	16.0	06/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	68.2	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	703	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	125 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	160 %	52.1-17	6						

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Received:

06/26/2015

Reported:

06/29/2015

Project Name:

LOGAN 35 TRANSFER LINE

Project Number: Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

06/26/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: S-3 1' (H501658-11)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.056	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	0.138	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	0.184	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	0.287	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	0.665	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149	61-154	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10900	16.0	06/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	159	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	115 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	139 9	6 52.1-176	6						

### Sample ID: S-3 2 ' (H501658-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4880	16.0	06/29/2015	ND	416	104	400	0.00	

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Received: Reported: 06/26/2015

06/29/2015

Project Name: Project Number: LOGAN 35 TRANSFER LINE

Project Location:

NONE GIVEN NOT GIVEN

Sampling Date:

06/26/2015 Soil

Sampling Type: Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 3 ' (H501658-13)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 9330 Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 06/29/2015

Analyzed

06/29/2015

Method Blank ND

BS 416 % Recovery 104

True Value QC 400

Qualifier

RPD

0.00

Sample ID: S-3 4 ' (H501658-14)

Chloride, SM4500CI-B

Analyte

mg/kg

Result

8800

Analyzed By: AP

Method Blank

ND

BS % Recovery True Value QC

400

**RPD** 

Qualifier

Sample ID: S-3 5' (H501658-15)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	
	128	16.0	06/29/2015	

Method Blank ND

BS 416

416

% Recovery 104

104

True Value QC 400

RPD 0.00

0.00

Qualifier

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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Received:

06/26/2015

Reported:

06/29/2015

Project Name: Project Number: LOGAN 35 TRANSFER LINE

Project Location:

NOT GIVEN

NONE GIVEN

Sampling Date:

Sampling Type: Soil Sampling Condition:

Sample Received By:

Cool & Intact

06/26/2015

Jodi Henson

Sample ID: S-4 0' (H501658-16)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	111 %	61-154	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12000	16.0	06/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	<10.0	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	113 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	135 %	6 52.1-17	6						

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Fax To:

(575) 745-8905

Received:

06/26/2015

Sampling Date:

06/26/2015

Reported:

06/29/2015

Sampling Type:

Soil

Project Name:

LOGAN 35 TRANSFER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-4 1' (H501658-17)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 9	% 61-154	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10700	16.0	06/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	<10.0	10.0	06/26/2015	ND	202	101	200	2.63	

Surrogate: 1-Chlorooctane

111 %

47.2-157

Surrogate: 1-Chlorooctadecane

131%

52.1-176

### Sample ID: S-4 2' (H501658-18)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1780	16.0	06/29/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:

06/26/2015

Reported:

06/29/2015

Project Name:

LOGAN 35 TRANSFER LINE

Project Number:

NONE GIVEN

1440

Project Location:

NOT GIVEN

Sampling Date:

inpling Date.

06/26/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: S-4 3 ' (H501658-19)

Chloride.	SM4500CI-B	

Chloride

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Analyzed 06/29/2015

Method Blank ND BS 416 % Recovery 104 True Value QC 400 Qualifier

RPD

0.00

Sample ID: S-4 4' (H501658-20)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	06/29/2015	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Received:

06/26/2015

Reported:

06/29/2015

Project Name:

LOGAN 35 TRANSFER LINE

Project Number: Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

06/26/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-5 0' (H501658-21)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	06/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	<10.0	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	119 %	6 47.2-15	7						· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	141 %	52.1-17	6						

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Fax To:

(575) 745-8905

Received:

06/26/2015

06/29/2015

Sampling Date: Sampling Type: 06/26/2015

Reported:

Soil

Project Name:

LOGAN 35 TRANSFER LINE

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: S-5 1' (H501658-22)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/26/2015	ND	1.96	98.1	2.00	3.40	
Toluene*	<0.050	0.050	06/26/2015	ND	2.00	100	2.00	1.61	
Ethylbenzene*	<0.050	0.050	06/26/2015	ND	2.03	102	2.00	3.17	
Total Xylenes*	<0.150	0.150	06/26/2015	ND	5.73	95.5	6.00	2.41	
Total BTEX	<0.300	0.300	06/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 %	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	06/29/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/26/2015	ND	176	88.0	200	2.67	
DRO >C10-C28	<10.0	10.0	06/26/2015	ND	202	101	200	2.63	
Surrogate: 1-Chlorooctane	115 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	134 %	6 52.1-170	5						

### Sample ID: S-5 2' (H501658-23)

Chloride, SM4500CI-B	de, SM4500CI-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/29/2015	ND	416	104	400	0.00	

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### **Notes and Definitions**

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

matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500CI-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 REQUEST

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

2650	7	Time 2:00
		Relinquished By: V Date 20 / Received By: /
	REMARKS:	Xulla ler lime:
It: ☐ Yes ☐ No Add'l Phone #:	Fax Result:	
	is based upon any of the above stated reasons or otherwise.	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 Relinquished Ry:
ordicable	d received by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subsidiari	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cadinia within 3 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,
	4.78	PLEASE NOTE: Liability and Damajos. Cardinal's liability and client's exclusive remody for any claim assists whether based in contract or but shall be limited to the forested as the shall be liability.
	10,5%	95-24
	) 10:53	8 5-23',
	02:00	6-22
	80,001	65.21,
	(0'.50	5.20
	75:6 ( /,	4 5-13
	1 9:50	95-12,
	9	3 5-11,
		510
TP BT Ch	OTHER ACID/B ICE / C OTHER DATE	# CON
H Ex Jori	R: ASE: OOL	Lab I.D.  Sample I.D.  Sor (C)O TAINERS NDWATER EWATER
d es	PRESERV. SAMPLING	MP.
	Fax #:	Sampler Name: 5 + + thurban
	Phone #:	Project Location:
	State: Zip:	Project Name: Logan 36 Transfor like
	City:	Project #: Project Owner: Line Rock
	Address:	Phone #: 575-746-8768 Fax #: 575-746-8905
	Attn:	City: Artesia state: NM zip: 88210
	company: Talon/LPE	Address: 408 W. Texas Ave.
	P.O. #:	Project Manager: S. Hitch cock
ANALYSIS REQUEST	BILL TO	Company Name: Talon/LPE

Sample Condition
Cool Intact
Tyes Tyes
No No

CHECKED BY:

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(010) 000-2020 1 77 (010) 000-2710		
Company Name: Talon/LPE	BILL TO	ANALYSIS REQUEST
Project Manager: 5, H; + CMCOCK	P.O. #:	
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 #: Project Owner: Line Roll	City:	
ame: (0)an ) 5 600	State: Zip:	
Project Location:	Phone #:	
Sampler Name: 5, Hitch Cour	Fax #:	ζ
	PRESERV. SAMPLING	
(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TPH BTEX Chlorio
	[ [6/26/15]] 1.53	
232 4-52	1 (6/26/15/1:57	
15235-35'		

Relinquished By: PLEASE NOTE: Lability and Damages. Cardinul'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 consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, Relinquished By: Date 26/15 Received By Time: Date: Received By Phone Result: Yes No Fax Result: Yes No REMARKS:

CHECKED BY:

Time:/00

Kush!!

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 383-2326 5,40

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Page 18 of 18

## **SEEDING LABEL**

7.9.15

Curtis & Curtis Seed 4500 M. Prince Clovis, NM 85101 Phone: 575-762-4759 logan 38 Bine leak

Talea Drilling LP

3 Acr : BLM #3 & #4, E or least Rate
6 - 1/2 Acre #3 @ 23.47 Bulk Pounds
Job. Stranderry F24 #3

B-7, 193-31E
200794017.02

Logan 35 will

### Lot#: M-11148

Ir m S deoats Grama	Orlgin	Purity	Germ	Dormant	Germ &	Test Total PL
Vaughn	New Mexico	40.30%	73.00%	1.00%	74.00%	09/12 42.00
Bue Grama	Colorado	8.19%	57.00 16	21.00%	78.00%	03/12 9.00
, Alkali Sacaton VNS	New Mexico	4.41%	21.00%	75.00%	96.00%	03/12 6.00
Four Wing Saltbush	New Mexico	35.51%	34.00%	16.00%	60.00%	01/12 30.00

701307.078.01

Other Crop: 00.05 6 Weed Seed: 00.32% Inert Matter: 11.19%

There Is 6 Eags For This 1 lix
This Bag Weighs "3 4" Bulk Pounds o
Use This Bag For 1/1 Acres

Total Bull Pounds: 141