



September 9, 2011



Mr. Mike Bratcher  
NMOCD District 2  
1301 West Grand Avenue  
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

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

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

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

TULSA  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

Subject: **Soil Assessment Results and Remediation Work Plan**  
Lime Rock Resources II-A, LP  
Aid 24 State Produced Water Transfer Release  
API # 30-015-22878 – 2RP-809

Dear Mr. Bratcher,

Lime Rock Resources II-A, LP (Lime Rock) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Aid 24 State Produced Water Transfer Release. The results of our soil assessment and proposed remediation activities consist of the following:

**Incident Date**

July 21, 2011

**Background Information**

The Aid 24 State Produced Water Transfer Release is located approximately fifteen (15) miles east of Artesia, New Mexico. The legal location for the site is Section 26, Township 17 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.80140 North and -104.152254 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of weathered Gypsum. The local surface and shallow geology consists of Quaternary Age sedimentary deposits, comprised of alluvium and eolian sands under lain by gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S19-T16S-R29E. The ground water in the area is reported to be 110' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

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

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

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

## Incident Description

On July 21, 2011 a connection in a 4" poly line parted causing 40 barrels of produced water to be released. The poly line was isolated and repaired. A vacuum truck was immediately brought to the location and was able to recover 10 barrels of produced water. The initial release area was south of Apache Corp. D State #5 (30-015-31422) location. It flowed to the north measuring approximately 89-feet long by 23-feet wide. The release then flowed onto the Apache Corp D State No. 5 location encompassing an area approximately 260-feet in length and ranging from 20-60 feet wide. A site plan illustrating the study area is attached.

## Actions Taken

On July 22, 2011 Talon/LPE mobilized personnel conducted a site assessment for the construction of a work plan. Grab soil samples were collected utilizing a hand auger. Soil samples were collected from the impacted areas (S-1, S-2, S-6) and for background readings (S-3, S-4, and S-5).

On August 5, 2011 Talon/LPE mobilized personnel again to the site for soil sampling at greater depths utilizing a backhoe. Grab samples were collected from depths ranging 0 to 6 feet deep.

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

## Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides</u>
S-1	0'	<50	4485.9	13800 mg/kg
	1'	<50	15.7	4400
	2'	<50	15.7	208
	3'	**	**	128
	4'	**	**	80
S-2	0'	<50	2720	63200
	1'	<50	<10	1840
	2'	<50	<10	672
	3'	**	**	176
	4'	**	**	176
	6'	**	**	96

<u>Sample</u>	<u>Depth</u>	<u>BTEX</u>	<u>TPH</u>	<u>Chlorides</u>
S-3	0'	**	**	3200 mg/kg
S-4	0'	**	**	<16
	3'	**	**	64
S-5	0'	**	**	1680
	2'	**	**	640
	4'	**	**	384
S-6	6'	<50	16.5	11800

\*\* Analyte Not Tested

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

### **Summary and Conclusion**

- Groundwater in the project vicinity is greater than 100-feet below land surface per the New Mexico State Engineer Database.
- The background soil samples collected from the location indicates chloride levels range from 1680 mg/kg to 3200 mg/kg at land surface.
- Based upon the results of the laboratory data obtained for this investigation, the vertical impacts from this release extend to less than 2-feet below ground surface.
- Based on the depth to groundwater, it is unlikely that the impacts identified from this release will not pose a threat to groundwater after proposed remediation activities are complete.

### **Proposed Remedial Actions**

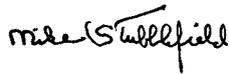
- The chloride impacted soil from this release above 1000 mg/kg will be excavated to a depth of 1-foot deep. The excavated soil will be transported to a NMOCD approved solid waste disposal facility for disposal.
- The excavated area will be backfilled to grade and contoured to the location.

- On behalf of Lime Rock, we respectfully ask that no corrective actions be undertaken in the vicinity of sample location S-6. The lab data may reflect historical impacts along the pipeline. Additionally, removing the small volume of impacted soil in this area, may pose a safety hazard and potential danger to the structural integrity of the pipeline.
- A final closure report will be provided to the NMOCD Artesia Office along with a C-141 Form.

If we can provide additional information or be of further assistance, please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

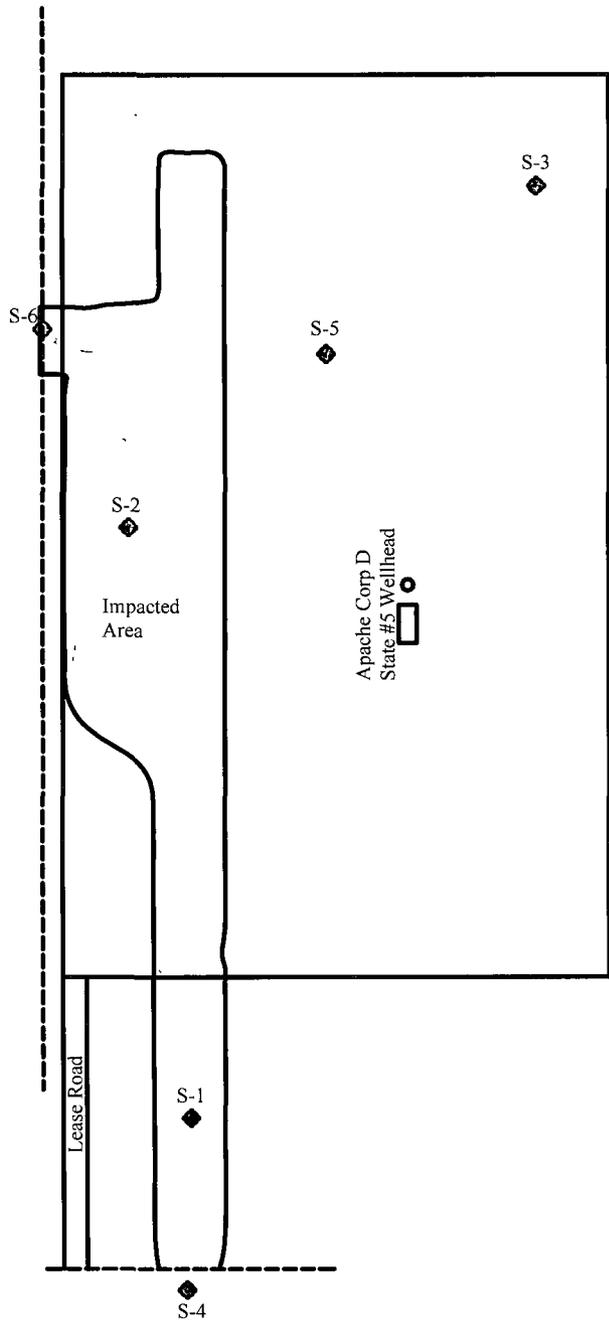


Mike Stubblefield  
Project Manager



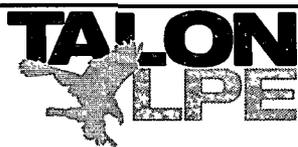
David J. Adkins  
District Manager

**SITE MAP**



0 30 60  
Scale in Feet

Legend	
	- Sample Location
	- Pipeline Right-of-Way



Date: 08/25/2011  
Scale: 1" = 60'  
Drawn By: TJS

Aid 24 State Produced Water Transfer Line  
Lime Rock Resources  
Eddy County, New Mexico  
Figure 1 - Site Plan

**APPENDIX I**  
**GROUNDWATER DATA**  
**INITIAL C-141**



# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Sub basin	Use	County	Q Q Q	64 16 4	Sec	Tws	Rng	X	Y Distance	Depth Well	Depth Water	Water Column
RA 09342	DOM		ED	4 4 3	19	16S	29E	582737	3640640*	3925	220	110	110
												Average Depth to Water:	<b>110 feet</b>
												Minimum Depth:	<b>110 feet</b>
												Maximum Depth:	<b>110 feet</b>

**Record Count: 1**

**UTM NAD83 Radius Search (in meters):**

Easting (X): 579100

Northing (Y): 3639162

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  
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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company : LIME ROCK RESOURCES II-A, L.P	Contact : Jerry Smith
Address : 1111 Bagby Street Suite 4600, Houston ,TX 77002	Telephone No. : 575-748-9724
Facility Name : AID 24 State Produced Water Transfer Line	Facility Type: Produced Water Transfer Line
Surface Owner : State	Mineral Owner
Lease No. : API #30-015-22878	

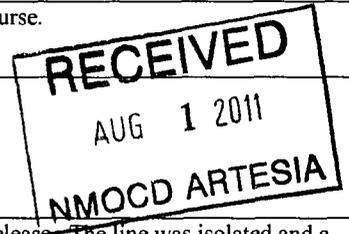
**LOCATION OF RELEASE**

Unit Letter M	Section 26	Township 17S	Range 28E	Feet from the 900	North/South Line FSL	Feet from the 990	East/West Line FWL	County Eddy
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Latitude 32.80140 Longitude -104.152254

**NATURE OF RELEASE**

Type of Release : Produce Water	Volume of Release : 40 bbls	Volume Recovered: 10
Source of Release : Poly Line	Date and Hour of Occurrence: 7/21/11 10:00 am	Date and Hour of Discovery: 7/21/11 10:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? NMOCD/Mike Bratcher by voicemail	
By Whom? Mike Stubblefield	Date and Hour : 7/21/11 1:30 pm	
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 connection in a new 4" poly line parted causing the release. The line was isolated and a vacuum truck was immediately brought to location. All free standing fluids were recovered.

Describe Area Affected and Cleanup Action Taken.\*  
The initial release area was south of Apache Corp. D State #5 (30-015-31422) location, measuring approximately 89' long by 23' wide. The release then flowed onto the Apache Corp D State #5 location measuring approximately 324' long by 62' wide. A small area located west of the location was also affected. This area measured approximately 21' long by 7' wide. Talon/LPE was contracted for the correction of this release.

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:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Jerry Smith	Approved by District Supervisor:	
Title: Assistant Production Supervisor	Approval Date:	Expiration Date:
E-mail Address: jsmith@limerockresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/01/11 Phone: 575-748-9724		

\* Attach Additional Sheets If Necessary

**APPENDIX II**  
**LABORATORY RESULTS**

July 29, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AID 24 STATE PW TRANSFER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 07/26/11 10:00.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

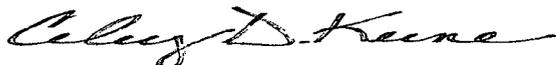
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (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  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	07/26/2011	Sampling Date:	07/22/2011
Reported:	07/29/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	** (See Notes)
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S-1 0' OFF LOCATION (H101549-01)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2011	ND	1.92	96.1	2.00	5.22		
Toluene*	<0.050	0.050	07/27/2011	ND	1.93	96.5	2.00	7.97		
<b>Ethylbenzene*</b>	<b>0.096</b>	0.050	07/27/2011	ND	1.99	99.4	2.00	4.79		
<b>Total Xylenes*</b>	<b>0.309</b>	0.150	07/27/2011	ND	6.02	100	6.00	7.00		

*Surrogate: 4-Bromofluorobenzene (PIL) 111 % 70-130*

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>13800</b>	16.0	07/26/2011	ND	400	100	400	3.92		

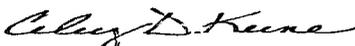
TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>GRO C6-C10</b>	<b>55.9</b>	50.0	07/29/2011	ND	197	98.6	200	2.50		
<b>DRO &gt;C10-C28</b>	<b>4430</b>	50.0	07/29/2011	ND	180	89.9	200	1.36		

*Surrogate: 1-Chlorooctane 118 % 70-130*
*Surrogate: 1-Chlorooctadecane 117 % 70-130*

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	07/26/2011	Sampling Date:	07/22/2011
Reported:	07/29/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	** (See Notes)
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S-2 0' LOCATION (H101549-02)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/27/2011	ND	1.92	96.1	2.00	5.22		
Toluene*	<b>0.076</b>	0.050	07/27/2011	ND	1.93	96.5	2.00	7.97		
Ethylbenzene*	<b>0.051</b>	0.050	07/27/2011	ND	1.99	99.4	2.00	4.79		
Total Xylenes*	<0.150	0.150	07/27/2011	ND	6.02	100	6.00	7.00		

Surrogate 4-Bromofluorobenzene (PIL) 104 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>63200</b>	16.0	07/26/2011	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<50.0	50.0	07/29/2011	ND	197	98.6	200	2.50		
DRO >C10-C28	<b>2720</b>	50.0	07/29/2011	ND	180	89.9	200	1.36		

Surrogate 1-Chlorooctane 93.1 % 70-130

Surrogate 1-Chlorooctadecane 96.6 % 70-130

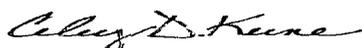
**Sample ID: S-3 LOCATION BACKGROUND (H101549-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>3200</b>	16.0	07/26/2011	ND	400	100	400	3.92		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

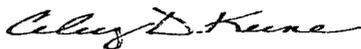
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=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

Company Name: <u>Talon/LPE</u>		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>																								
Project Manager: <u>Mike Stubblefield</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>505-441-7254</u> Fax #: <u>505-746-8905</u>		Address:																										
Project #: <u>701307.026.01</u> Project Owner: <u>Line Rock Resource</u>		City:																										
Project Name: <u>AIO 24 STATE PW Transfer release.</u>		State: Zip:																										
Project Location: <u>rec. 26-7175-R28E</u>		Phone #:																										
Sampler Name: <u>Mike Stubblefield</u>		Fax #:																										
FOR LAB USE ONLY																												
Lab I.D.		Sample I.D.		# CONTAINERS	MATRIX				PRESERV		SAMPLING																	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE	ICE / COOL	OTHER	DATE	TIME													
<u>HID154</u>																												
<u>1. S-1 0' off location</u>				<u>5</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>7/22/2011</u>	<u>9:23A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<u>2. S-2 0' location</u>				<u>5</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>7/22/2011</u>	<u>9:33A</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
<u>3. S-3 location background</u>				<u>6</u>			<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>			<u>7/22/2011</u>	<u>9:41A</u>			<input checked="" type="checkbox"/>										

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: <u>Mike Stubblefield</u>	Date: _____	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: _____
Relinquished By:	Time: _____	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: _____
Delivered By: (Circle One)	Date: _____	Received By: <u>[Signature]</u>	REMARKS:	
Sampler - UPS - Bus - Other:	Time: _____	Sample Condition	CHECKED BY: <u>[Signature]</u>	
		Cool Intact	(Initials)	
		<input 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

September 07, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: AID 24 STATE PW TRANSFER RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 08/05/11 17:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S - 4 0' OFF LOCATION (H101649-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/09/2011	ND	448	112	400	3.51		

**Sample ID: S - 4 3' OFF LOCATION (H101649-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>64.0</b>	16.0	08/09/2011	ND	448	112	400	3.51		

**Sample ID: S - 1 1' OFF LOCATION (H101649-03)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/11/2011	ND	1.97	98.7	2.00	6.67		
Toluene*	<0.050	0.050	08/11/2011	ND	1.88	94.0	2.00	8.55		
Ethylbenzene*	<0.050	0.050	08/11/2011	ND	1.90	95.2	2.00	9.19		
Total Xylenes*	<0.150	0.150	08/11/2011	ND	5.67	94.6	6.00	9.32		

Surrogate. 4-Bromofluorobenzene (PIL) 97.7% 70-130

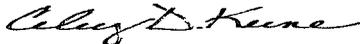
Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<b>4400</b>	16.0	08/09/2011	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/11/2011	ND	186	92.9	200	2.28		

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S - 1 1' OFF LOCATION (H101649-03)**

TPH 8015M	mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>DRO &gt;C10-C28</b>	<b>15.7</b>	10.0	08/11/2011	ND	172	86.2	200	1.36	
<i>Surrogate: 1-Chlorooctane</i>	<i>112 %</i>	<i>70-130</i>							
<i>Surrogate: 1-Chlorooctadecane</i>	<i>114 %</i>	<i>70-130</i>							

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S - 1 2' OFF LOCATION (H101649-04)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/11/2011	ND	1.97	98.7	2.00	6.67		
Toluene*	<0.050	0.050	08/11/2011	ND	1.88	94.0	2.00	8.55		
Ethylbenzene*	<0.050	0.050	08/11/2011	ND	1.90	95.2	2.00	9.19		
Total Xylenes*	<0.150	0.150	08/11/2011	ND	5.67	94.6	6.00	9.32		

Surrogate 4-Bromofluorobenzene (PIL) 96.5 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/09/2011	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/11/2011	ND	186	92.9	200	2.28		
DRO >C10-C28	<10.0	10.0	08/11/2011	ND	172	86.2	200	1.36		

Surrogate 1-Chlorooctane 114 % 70-130

Surrogate: 1-Chlorooctadecane 123 % 70-130

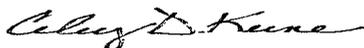
**Sample ID: S - 1 3' OFF LOCATION (H101649-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	08/09/2011	ND	448	112	400	3.51		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S - 1 4' OFF LOCATION (H101649-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	08/09/2011	ND	448	112	400	3.51		

**Sample ID: S - 2 1' LOCATION (H101649-07)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/11/2011	ND	1.97	98.7	2.00	6.67		
Toluene*	<0.050	0.050	08/11/2011	ND	1.88	94.0	2.00	8.55		
Ethylbenzene*	<0.050	0.050	08/11/2011	ND	1.90	95.2	2.00	9.19		
Total Xylenes*	<0.150	0.150	08/11/2011	ND	5.67	94.6	6.00	9.32		

Surrogate 4-Bromofluorobenzene (PIL) 98.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	08/09/2011	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/11/2011	ND	186	92.9	200	2.28		
DRO >C10-C28	<10.0	10.0	08/11/2011	ND	172	86.2	200	1.36		

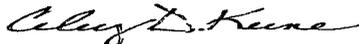
Surrogate. 1-Chlorooctane 108 % 70-130

Surrogate. 1-Chlorooctadecane 124 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S - 2 2' LOCATION (H101649-08)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/11/2011	ND	1.97	98.7	2.00	6.67		
Toluene*	<0.050	0.050	08/11/2011	ND	1.88	94.0	2.00	8.55		
<b>Ethylbenzene*</b>	<b>0.109</b>	0.050	08/11/2011	ND	1.90	95.2	2.00	9.19		
<b>Total Xylenes*</b>	<b>0.815</b>	0.150	08/11/2011	ND	5.67	94.6	6.00	9.32		

Surrogate: 4-Bromofluorobenzene (PII) 97.4 % 70-130

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>672</b>	16.0	08/09/2011	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/11/2011	ND	186	92.9	200	2.28		
DRO >C10-C28	<10.0	10.0	08/11/2011	ND	172	86.2	200	1.36		

Surrogate: 1-Chlorooctane 108 % 70-130

Surrogate: 1-Chlorooctadecane 122 % 70-130

**Sample ID: S - 2 3' LOCATION (H101649-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	08/09/2011	ND	448	112	400	3.51		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S - 2 4' LOCATION (H101649-10)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: CK								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/09/2011	ND	448	112	400	3.51		

**Sample ID: S - 2 6' LOCATION (H101649-11)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: CK								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	08/09/2011	ND	448	112	400	3.51		

**Sample ID: S - 5 0' LOCATION BACKGROUND (H101649-12)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: CK								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1680	16.0	08/09/2011	ND	448	112	400	3.51		

**Sample ID: S - 5 2' LOCATION BACKGROUND (H101649-13)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: CK								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	08/09/2011	ND	448	112	400	3.51		

**Sample ID: S - 5 4' LOCATION BACKGROUND (H101649-14)**

Chloride, SM4500Cl-B	mg/kg	Analyzed By: CK								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	08/09/2011	ND	448	112	400	3.51		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

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

Received:	08/05/2011	Sampling Date:	08/05/2011
Reported:	09/07/2011	Sampling Type:	Soil
Project Name:	AID 24 STATE PW TRANSFER RELEASE	Sampling Condition:	Cool & Intact
Project Number:	701307.026.01	Sample Received By:	Jodi Henson
Project Location:	SEC.26-T17S - R28E		

**Sample ID: S - 6 6" OFF LOCATION (H101649-15)**

BTEX 8021B		mg/kg		Analyzed By: CMS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/11/2011	ND	1.97	98.7	2.00	6.67		
Toluene*	<0.050	0.050	08/11/2011	ND	1.88	94.0	2.00	8.55		
<b>Ethylbenzene*</b>	<b>0.161</b>	0.050	08/11/2011	ND	1.90	95.2	2.00	9.19		
<b>Total Xylenes*</b>	<b>1.16</b>	0.150	08/11/2011	ND	5.67	94.6	6.00	9.32		

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 70-130

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>11800</b>	16.0	08/09/2011	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/11/2011	ND	186	92.9	200	2.28		
<b>DRO &gt;C10-C28</b>	<b>16.5</b>	10.0	08/11/2011	ND	172	86.2	200	1.36		

Surrogate 1-Chlorooctane 125 % 70-130

Surrogate 1-Chlorooctadecane 139 % 70-130

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

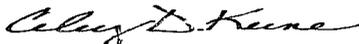
Z-01	One or more surrogates above historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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---

Celey D. Keene, Lab Director/Quality Manager



**CARDINAL LABORATORIES**

101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

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

1-2

Company Name: <u>Talon/LPE</u>		<b>BILL TO:</b>		<b>ANALYSIS REQUEST</b>																							
Project Manager: <u>Mike Stubblefield</u>		P.O. #:																									
Address: <u>408 W. Texas Ave</u>		Company: <u>Talon/LPE</u>																									
City: <u>Acton</u> State: <u>NM</u> Zip: <u>88210</u>		Attn:																									
Phone #: <u>575-441-7254</u> Fax #:		Address:																									
Project #: <u>701307.026.01</u> Project Owner: <u>Line Rock Reg.</u>		City:																									
Project Name: <u>AID 24 State PW Transfer release</u>		State: Zip:																									
Project Location: <u>Sec 26-T195-R28E</u>		Phone #:																									
Sampler Name: <u>Mike Stubblefield</u>		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	8015 M TPH	8020 BTEX	Total chlorides									
	<u>AID1648</u>																										
	<u>1</u>	<u>S-4 0' off location Background</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>9:22 AM</u>			<input checked="" type="checkbox"/>									
	<u>2</u>	<u>S-4 3' off location Background</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>9:35 AM</u>			<input checked="" type="checkbox"/>									
	<u>3</u>	<u>S-1 1' off location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>9:45 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
	<u>4</u>	<u>S-1 2' off location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>9:51 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
	<u>5</u>	<u>S-1 3' off location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>10:03 AM</u>			<input checked="" type="checkbox"/>									
	<u>6</u>	<u>S-1 4' off location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>10:12 AM</u>			<input checked="" type="checkbox"/>									
	<u>7</u>	<u>S-2 1' location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>11:11 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
	<u>8</u>	<u>S-2 2' location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>11:17 AM</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
	<u>9</u>	<u>S-2 3' location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>11:27 AM</u>			<input checked="" type="checkbox"/>									
	<u>10</u>	<u>S-2 4' location</u>	<u>G</u>				<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>		<u>8/5/2011</u>	<u>11:31 AM</u>			<input checked="" type="checkbox"/>									

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 analyzes. 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: <u>Mike Stubblefield</u>	Date: <u>8/5/2011</u>	Received By: <u>[Signature]</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
	Time: <u>4:00 AM</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By: <u>[Signature]</u>	Date: <u>8/5/11</u>	Received By: <u>[Signature]</u>	REMARKS:	
	Time: <u>3:50</u>			
Delivered By: (Circle One)	Sample Condition	CHECKED BY: (Initials)		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<u>[Signature]</u>		

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



**CARDINAL LABORATORIES**  
 101 East Marland, Hobbs, NM 88240  
 (505) 393-2326 FAX (505) 393-2476

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

2-2

Company Name: Tolon/LPE		<b>BILL TO</b>		<b>ANALYSIS REQUEST</b>															
Project Manager: Mike Stubblefield		P.O. #:																	
Address: 408 W. Texas Ave		Company:																	
City: Archa State: NM Zip: 88210		Attn:																	
Phone #: 505-441-7254 Fax #:		Address:																	
Project #: 201302.026.01 Project Owner: Line Rock Res.		City:																	
Project Name: AIO 24 State PW Transfer release.		State: Zip:																	
Project Location: Ser. 26-TTC-RERE		Phone #:																	
Sampler Name: Mike Stubblefield		Fax #:																	
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		DATE	TIME	5015 M T P 14	8020 BTEX	Total chlorides
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:						
	H101649																		
	11	5.2 6' location	5				✓				✓			8/15/2011	11:58 AM			✓	
	12	5.5 0' location background	5				✓				✓			8/15/2011	12:32 PM			✓	
	13	5.5 2' location background	5				✓				✓			8/15/2011	12:39 PM			✓	
	14	5.5 4' location background	5				✓				✓			8/15/2011	12:47 PM			✓	
	15	5.6 6" off location	5				✓				✓			8/15/2011	1:23 PM	✓	✓	✓	

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Relinquished By: Mike Green	Date: 8/15/2011 Time: 4:00 AM	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date: 8/15/11 Time: 5:50	Received By: Wodi Hanson	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	CHECKED BY: (Initials) WJH	REMARKS:	

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#26