



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

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

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 underlain 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'

Toll Free: 866.742.0742
www.talonlpe.com

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

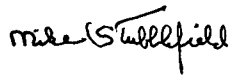
- The chloride impacted soil from this release above 1000 mg/kg will be excavated to a depth of 1-foot deep. The excavated soil will be transported to a NMOCD approved solid waste disposal facility for disposal.
- The excavated area will be backfilled to grade and contoured to the location.

- 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

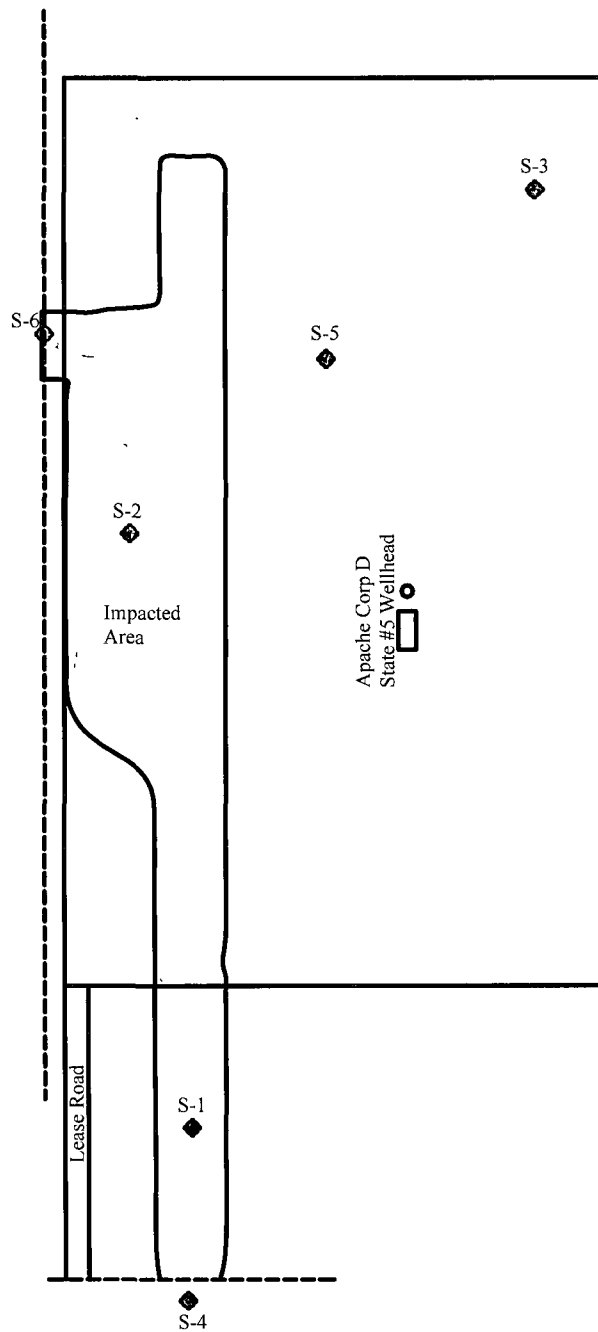
A handwritten signature in black ink that reads "Mike Stubblefield". The signature is written in a cursive, slightly slanted style.

Mike Stubblefield
Project Manager

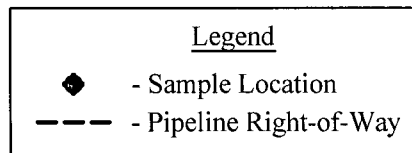
A handwritten signature in black ink that reads "David J. Adkins". The signature is written in a cursive, slightly slanted style.

David J. Adkins
District Manager

SITE MAP



0 30 60
Scale in Feet



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 64	Q 16	Q 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:													110 feet		
Minimum Depth:													110 feet		
Maximum Depth:													110 feet		

Record Count: 1

UTMNAD83 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

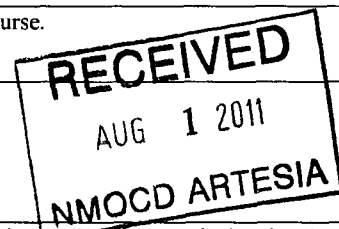
Unit Letter M	Section 26	Township 17S	Range 28E	Feet from the 900	North/South Line FSL	Feet from the 990	East/West Line FWL	County Eddy
------------------	---------------	-----------------	--------------	----------------------	-------------------------	----------------------	-----------------------	-------------

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:	OIL CONSERVATION DIVISION		
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



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

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,

A handwritten signature in black ink, appearing to read "Celey D. Keene". The signature is fluid and cursive, with a long horizontal stroke at the end.

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)

BTX 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	
Ethylbenzene*	0.096	0.050	07/27/2011	ND	1.99	99.4	2.00	4.79	
Total Xylenes*	0.309	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
Chloride	13800	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	55.9	50.0	07/29/2011	ND	197	98.6	200	2.50	
DRO >C10-C28	4430	50.0	07/29/2011	ND	180	89.9	200	1.36	

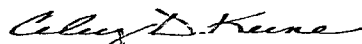
Surrogate: 1-Chlorooctane 118 % 70-130

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)

BTX 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*	0.076	0.050	07/27/2011	ND	1.93	96.5	2.00	7.97		
Ethylbenzene*	0.051	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	63200	16.0	07/26/2011	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: ab						

Surrogate 1-Chlorooctane 93.1 % 70-130

Surrogate 1-Chlorooctadecane 96.6 % 70-130

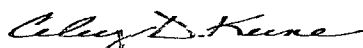
Sample ID: S-3 LOCATION BACKGROUND (H101549-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	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

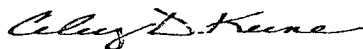
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

[illegible]

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Relinquished By: <u>min. Stuppel</u> Relinquished By: _____ Date: _____ Time: _____		Received By: <u>[Signature]</u> Received By: _____ Date: _____ Time: _____		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: _____ Add'l Fax #: _____ REMARKS: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition Cool Intact Yes No Yes No <u>10</u> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		CHECKED BY: (Initials) <u>[Signature]</u>	

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.

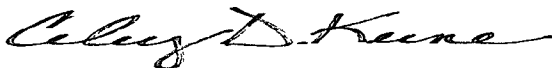
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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	64.0	16.0	08/09/2011	ND	448	112	400	3.51		

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

BTX 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

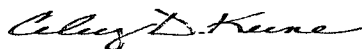
Chloride, SM4500Cl-B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4400	16.0	08/09/2011	ND	448	112	400	3.51		

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		

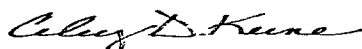
Sample ID: S - 1 1' OFF LOCATION (H101649-03)

TPH 8015M	mg/kg		Analyzed By: ab						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
DRO >C10-C28	15.7	10.0	08/11/2011	ND	172	86.2	200	1.36	
Surrogate: 1-Chlorooctane	112 %	70-130							
Surrogate: 1-Chlorooctadecane	114 %	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 - 1 2' OFF LOCATION (H101649-04)

BTX 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

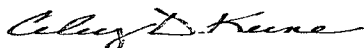
Sample ID: S - 1 3' OFF LOCATION (H101649-05)

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	

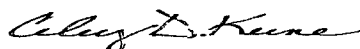
Surrogate 1-Chlorooctane 108 % 70-130

Surrogate 1-Chlorooctadecane 124 % 70-130

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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	
Ethylbenzene*	0.109	0.050	08/11/2011	ND	1.90	95.2	2.00	9.19	
Total Xylenes*	0.815	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
Chloride	672	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

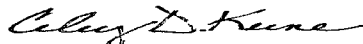
Sample ID: S - 2 3' LOCATION (H101649-09)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	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		

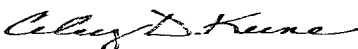
Sample ID: S - 5 4' LOCATION BACKGROUND (H101649-14)

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	
Ethylbenzene*	0.161	0.050	08/11/2011	ND	1.90	95.2	2.00	9.19	
Total Xylenes*	1.16	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
Chloride	11800	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	
DRO >C10-C28	16.5	10.0	08/11/2011	ND	172	86.2	200	1.36	

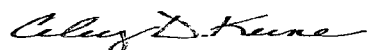
Surrogate 1-Chlorooctane 125 % 70-130

Surrogate 1-Chlorooctadecane 139 % 70-130

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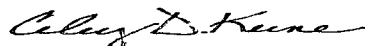
Notes and Definitions

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>		BILL TO: <u>Talon / LPE</u>		ANALYSIS REQUEST																						
Project Manager: <u>Mike Stubblefield</u>		P.O. #:																								
Address: <u>408 W. Texas Ave</u>		Company: <u>Talon / LPE</u>																								
City: <u>Alamogordo</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>Crime Rock Rep.</u>		City:																								
Project Name: <u>AID 24 State PW Transfer release</u>		State: Zip:																								
Project Location: <u>Sec 26-T175-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											
	<u>AID1648</u>															<u>8015 M TPH</u>	<u>8020 BTEX</u>	<u>Total chlorides</u>								
	<u>1</u>	<u>5-4 0' off location Background</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>9:22 AM</u>			<u>✓</u>								
	<u>2</u>	<u>5-4 3' off location Background</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>9:35 AM</u>			<u>✓</u>								
	<u>3</u>	<u>5-1 1' off location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>9:48 AM</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>4</u>	<u>5-1 2' off location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>9:51 AM</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>5</u>	<u>5-1 3' off location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>10:03 AM</u>			<u>✓</u>								
	<u>6</u>	<u>5-1 4' off location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>10:12 AM</u>			<u>✓</u>								
	<u>7</u>	<u>5-2 1' location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>11:11 AM</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>8</u>	<u>5-2 2' location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>11:13 AM</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>								
	<u>9</u>	<u>5-2 3' location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>11:27 AM</u>			<u>✓</u>								
	<u>10</u>	<u>5-2 4' location</u>	<u>G</u>				<u>✓</u>				<u>✓</u>			<u>8/5/2011</u>	<u>11:31 AM</u>			<u>✓</u>								

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

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• CARDINAL LABORATORIES

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(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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