

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

30-015-32554

Release Notification and Corrective Action

NMLB1029539506

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Lime Rock Resources	Contact Michael Barrett
Address P.O. Box 2147 Roswell, NM 88202-2147	Telephone No. 575-623-8424
Facility Name Williams A Federal Battery	Facility Type Production Battery

Surface Owner	Mineral Owner Federal	Lease No. NM 04834
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LOCATION OF RELEASE

Unit Letter N	Section 29	Township 17s	Range 28e	Feet from the 590'	North/South Line FSL	Feet from the 2185'	East/West Line FWL	County EDDY
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 85 bbls	Volume Recovered 0
Source of Release	Date and Hour of Occurrence 08/02/2010	Date and Hour of Discovery 08/02/2010 8:30am
Was Immediate Notice Given? X Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Notified Mike Bratcher by voicemail.	
By Whom? Michael Barrett	Date and Hour 08/03/2010 8:25am	
Was a Watercourse Reached? <input type="checkbox"/> Yes X No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

3" poly line split, releasing 85 bbls of water. Isolated, emptied & removed line from service.

Describe Area Affected and Cleanup Action Taken.*

Approximately affected surface; 50' x 155'. Packed and rocky dry caliche. Notified BLM. Remediation actions were taken by Talon/LPE. Attached Remediation Work plan and Closure report dated October 7, 2010.

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.

RECEIVED

OCT 15 2010

NMOCD ARTESIA

OIL CONSERVATION DIVISION

Signature: *Michael Barrett*

Printed Name: Michael Barrett

Title: Production Supervisor

E-mail Address: mbarrett@limerockresources.com

Date: Oct-14, 2010

Phone: 575-623-8424

Approved by *Mike Bratcher*
District Supervisor

Approval Date: OCT 22 2010

Expiration Date: N/A

Conditions of Approval:

Attached ☐

* Attach Additional Sheets If Necessary

2RP-448



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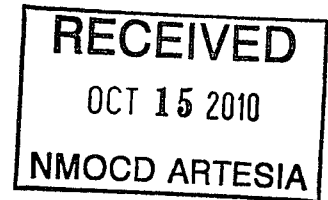
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October 7, 2010

Mr. Mike Bratcher
NMOCD District 2
1301 West Grand Avenue
Artesia, NM 88210



**Subject: Soil Assessment and Remediation Work Plan
Final Closure Report**
Lime Rock Resources Operating Company, Inc.
Williams A Federal Battery Produced Water Release

Dear Mr. Bratcher,

Lime Rock resources Operating Company. Inc. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Williams A Federal Battery facility located approximately 11-miles east of Artesia, New Mexico. With-in this transmittal Talon/LPE (Talon) proposes our work plan and a final closure report to perform soil assessment and remediation activities consists of the following:

Incident Date

August 2, 2010

Background Information

The Williams A Federal Battery is located approximately eleven (11) miles east of Artesia, NM. The legal location for the site is Ut.N Section 29-17s-28e. This site lies on a plateau that is greater in elevation then the surrounding terrain. Drainage courses in this area are normally dry. The local surface and shallow geology includes loamy, silty soils under lain by lime stone and dolomite rock formations. The New Mexico State Engineer web site indicates the nearest ground water data to be in Section 34-17s-28e. The ground water in section 34 is reported to be at an average depth of 52' below ground surface (bgs).

The ranking for this site is 10 based on the as following:

Depth to ground water	50'-100'
Wellhead Protection Area	> 1000'
Distance to surface water body	>1000

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Incident Description

On August 2, 2010 a 3-inch poly line located northwest of the tank battery ruptured. The volume of the release was estimated to be eighty-five (85) bbls of produced water. The release area was measured to be one hundred and fifty-five (155') feet in length and fifty (50') feet in width. The release area is sloped and traversed by above grade poly flow lines.

Actions Taken

The leaking flow line was isolated, emptied and then taken out of service. This section of line was replaced with Seven (7,000) thousand feet of new poly flow line. The weather was dry and windy at the time of the release.

No free waters were recovered. The New Mexico One Call was contacted and a One Call was ordered. Equipment was immediately brought to the site and a berm was constructed down grade of the release to contain any rain that might occur.

Proposed Remedial Actions

- The impacted soil from the release will be vertically and horizontally delineated. Background soil samples will be taken.
- Based on the Recommended Remediation Action Level for the area, the impacted soils will be excavated and transported to an NMOCD approved solid Waste disposal facility (Lea Land, LLC) for disposal. The Chlorides will be corrected to site specific levels as agreed upon; or to the existing background for Chlorides in the area. Once the excavation is complete, confirmation samples will be collected from the excavated areas. Samples collected will be place in laboratory provided sample containers. These samples will be labeled, iced, and delivered to a certified laboratory for analysis per EPA SW-846 Method 8015 GRO/DRO for total petroleum hydrocarbons (TPH); EPA SW-846 Method 8021 for benzene, ethybenzene, toluene, and total xylenes (BTEX); and for total Chlorides using EPA Method E 300.0.
- A final report will be provided to the NMOCD Artesia Office utilizing Form C-141. Upon receipt of acceptable laboratory results and report approval, the excavation will be backfilled to grade using clean fill material. The backfilled area will be contoured to match the surrounding terrain.

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Final Closure Report

RDL Excavation and Construction mobilized and brought equipment to the release site on August 6, 2010. The impacted soil from the release was excavated and then transported to and NMOCD approved Solid Waste disposal facility (Lea Land LLC.) A total of 4252 cu. yds soil was transported to Lea Land LLC for disposal. On August 18, 2010 notification to witness soil samples to be taken for analysis was provided to NMOCD/Mike Bratcher and BLM/Terry Gregston. Soil samples were taken from the excavated area for analysis on August 20, 2010. Samples collected were placed in laboratory provided sample containers. These samples were labeled, iced, and delivered to Cardinal Laboratory in Hobb's New Mexico for analysis per EPA SW-846 Method 8015 GRO/DRO for total petroleum hydrocarbons (TPH); EPA SW-846 Method 8021 for benzene, ethylbenzene, toluene, and total xylenes (BTEX); and for total Chlorides using EPA Method E 300.0.

The analytical results received for Cardinal Lab dated September 2, 2010 reported the TPH GRO/DRO to be under the RRAL for the site in all samples as required by the Guide lines for leaks, spills and releases. The Chlorides were reported in elevated ranges in the soil samples labeled eastside wall, area B, and the pipeline right of way.

On September 8, 2010 a meeting was conducted at the Williams A Federal battery release site with NMOCD/Mike Bratcher. Mr. Bratcher reviewed the analytical reports dated September 2, 2010 and inspected the excavated area with Talon/LPE Project Manager Mike Stubblefield. Mr. Bratcher requested additional soil samples to be taken for further delineation for chlorides from the southside wall, eastside wall, and area B located in the bottom of the excavation. Additional excavation activities were then taken with impacted soil being excavated from the eastside wall of the excavated area, additional material was removed in area B. The excavated soil was subsequently transported to Lea Land LLC. On September 8, 2010 Soil samples were taken for vertical delineation from the area located south of the pipeline right of away, and the area labeled B. A composite soil sample was also taken from the eastside wall of the excavated area.

Analytical results dated September 10, 2010 received from Cardinal Laboratory reported the Soil Sample labeled ID 001 - Chlorides <16 mg/kg in the area located four feet south of the pipeline right of way. Soil sample labeled ID 002 reported chlorides - 192 mg/kg in the area located four feet east of the eastside wall. Soil sample labeled ID 003 reported chlorides - 624 mg/kg in the area B 6' below ground surface (bgs) in the bottom of the excavated area. Soil sample labeled ID 004 reported the chlorides - 160 mg/kg for the composite soil sample taken from the eastside wall.



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The analytical results dated September 10, 2010 were the provided to BLM/Terry Gregston and NMOCD/Mike Bratcher. Mrs. Terry Gregston E-mailed Mike Stubblefield Project Manager with Talon on September 16, 2010 giving approval for Lime Rock Resources to start the backfilling of the excavated area at the Williams A Federal battery. Mr. Mike Bratcher E-mailed Mike Stubblefield on September 22, 2010 giving Lime Rock Resources permission to start the backfilling of the excavated area. The excavated area was subsequently backfilled to grade matching the surrounding terrain. Native soil was purchased from the Turkey Track Ranch borrow pit for the backfilling operations. Lime Rock Resources requests closure for the release that occurred on August 2, 2010 at the Williams A Federal battery.

Should you have any questions, or if we can be of further assistance, please do not hesitate to contact me at 575-746-8768, or my cell 575-441-7254.

Respectfully submitted,

Talon/LPE

Mike Stubblefield
Project Manager



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September 02, 2010

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WILLIAMS A FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/23/10 11:14.

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



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

Analytical Results For:

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

Received: 08/23/2010
Reported: 09/02/2010
Project Name: WILLIAMS A FEDERAL BATTERY
Project Number: 701307.004.01
Project Location: SEC. 29-17S-28 E

Sampling Date: 08/20/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 001 EASTSIDE WALL (H020698-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/26/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/26/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/26/2010	ND	2.75	91.6	3.00	0.441	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	08/24/2010	ND	416	104	400	3.77	

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	08/31/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83	

Surrogate: 1-Chlorooctane 104 % 70-130

Surrogate: 1-Chlorooctadecane 109 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
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408 W. TEXAS AVE.
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Fax To: (575) 745-8905

Received: 08/23/2010
Reported: 09/02/2010
Project Name: WILLIAMS A FEDERAL BATTERY
Project Number: 701307.004.01
Project Location: SEC. 29-17S-28 E

Sampling Date: 08/20/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 002 SOUTHSIDE WALL (H020698-02)

BTEX 8021B			mg/kg		Analyzed By: CK				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate, 4-Bromofluorobenzene (PIL) 103 % 80-120

Chloride, SM4500Cl-B			mg/kg		Analyzed By: HM				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/24/2010	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: AB				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83	

Surrogate, 1-Chlorooctane 109 % 70-130

Surrogate 1-Chlorooctadecane 142 % 70-130

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Analytical Results For:

TALON LPE
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408 W. TEXAS AVE.
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Fax To: (575) 745-8905

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 003 WESTSIDE WALL (H020698-03)

BTEX 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08		
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968		
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570		
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441		

Surrogate 4-Bromofluorobenzene (PIL) 104 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	688	16.0	08/24/2010	ND	416	104	400	3.77		

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	08/31/2010	ND	163	81.7	200	2.10		
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83		

Surrogate 1-Chlorooctane 115 % 70-130

Surrogate 1-Chlorooctadecane 124 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 004 NORTHSIDE WALL (H020698-04)

BTX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 101 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2010	ND	416	104	400	3.77	

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	08/31/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 106 % 70-130

Surrogate 1-Chlorooctadecane 123 % 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: 08/23/2010
Reported: 09/02/2010
Project Name: WILLIAMS A FEDERAL BATTERY
Project Number: 701307.004.01
Project Location: SEC. 29-17S-28 E

Sampling Date: 08/20/2010
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: 005 BOTTOM EXCAVATED AREA (H020698-05)
BTEX 8021B
mg/kg
Analyzed By: CK

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate: 4-Bromofluorobenzene (PIL) 106 % 80-120

Chloride, SM4500Cl-B
mg/kg
Analyzed By: HM

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	08/24/2010	ND	416	104	400	3.77	

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	08/31/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	08/31/2010	ND	181	90.7	200	4.83	

Surrogate: 1-Chlorooctane 100 % 70-130

Surrogate: 1-Chlorooctadecane 118 % 70-130

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 006 EXCAVATED AREA A 4' BGS (H020698-06)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate: 4-Bromofluorobenzene (PIL) 100 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2200	16.0	08/24/2010	ND	416	104	400	3.77	

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	09/01/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	181	90.7	200	4.83	

Surrogate: 1-Chlorooctane 103 % 70-130

Surrogate: 1-Chlorooctadecane 105 % 70-130

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Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 007 EXCAVATED AREA B 6' BGS (H020698-07)

BTEX 8021B		mg/kg	Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 103 % 80-120

Chloride, SM4500Cl-B		mg/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	08/24/2010	ND	416	104	400	3.77	

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	09/01/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 111 % 70-130

Surrogate 1-Chlorooctadecane 118 % 70-130

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Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 008 EXCAVATED AREA C 12' BGS (H020698-08)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate 4-Bromofluorobenzene (PIL) 101 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/24/2010	ND	416	104	400	3.77	

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	09/01/2010	ND	163	81.7	200	2.10	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	181	90.7	200	4.83	

Surrogate 1-Chlorooctane 103 % 70-130

Surrogate 1-Chlorooctadecane 115 % 70-130

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Analytical Results For:

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

Received:	08/23/2010	Sampling Date:	08/20/2010
Reported:	09/02/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	Cool & Intact
Project Number:	701307.004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 009 EXC. AREA 4' BGS P/L RIGHTAWAY (H020698-09)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/27/2010	ND	0.835	83.5	1.00	2.08	
Toluene*	<0.050	0.050	08/27/2010	ND	0.885	88.5	1.00	0.968	
Ethylbenzene*	<0.050	0.050	08/27/2010	ND	0.933	93.3	1.00	0.570	
Total Xylenes*	<0.150	0.150	08/27/2010	ND	2.75	91.6	3.00	0.441	

Surrogate. 4-Bromofluorobenzene (PIL) 100 % 80-120

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	08/24/2010	ND	416	104	400	3.77	

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	09/01/2010	ND	180	89.9	200	3.28	
DRO >C10-C28	<10.0	10.0	09/01/2010	ND	200	99.9	200	2.66	

Surrogate. 1-Chlorooctane 105 % 70-130

Surrogate 1-Chlorooctadecane 120 % 70-130

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>TAJOLPE</u>		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Mike Stubblefield</u>		P.O. #:													
Address: <u>408 West Texas Ave.</u>		Company: <u>Lime Rock Res.</u>													
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn: <u>Jerry Smith</u>													
Phone #: <u>505-741-7254</u> Fax #: <u>505-746-8405</u>		Address: <u>303 East Main</u>													
Project #: <u>701307.004.0</u> Project Owner: <u>Lime Rock Res.</u>		City: <u>Artesia</u>													
Project Name: <u>Williams A Federal Battery</u>		State: <u></u> Zip: <u>88210</u>													
Project Location: <u>Sec. 29-17s-28e</u>		Phone #: <u>505-742-9224</u>													
Sampler Name: <u>Mike Stubblefield</u>		Fax #: <u>505-742-9310</u>													

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS	MATRIX							PRESERV.	SAMPLING		DATE	TIME	TPH 8015M	BTEX 8060	Total Chlorides
			GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE		ICE/COOL	OTHER					
H20698-1	001 Eastside Wall	C			✓					✓		8/20/2010	11:19AM	✓	✓	✓	
2	002 Southside Wall	C			✓					✓		8/20/2010	11:26AM	✓	✓	✓	
3	003 Westside Wall	C			✓					✓		8/20/2010	11:35AM	✓	✓	✓	
4	004 Northside Wall	C			✓					✓		8/20/2010	11:42AM	✓	✓	✓	
S	005 Bottom Escavated Area	C			✓					✓		8/20/2010	11:55AM	✓	✓	✓	

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Relinquished By: <u>Mike Stubblefield</u>	Date: <u>8/23/2010</u>	Received By: <u>Jodi Henderson</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:	Date:	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus <input checked="" type="radio"/> Other:	Time: <u>11:14 AM</u>	Time:	REMARKS:	
Sample Condition Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) <u>JHS</u>			

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

#26



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>Talon LPE</u>		BILL TO		ANALYSIS REQUEST																								
Project Manager: <u>MIKE STUBBLEFIELD</u>		P.O. #:		<div style="display: flex; justify-content: space-between;"> <div> TPH 8015 m BTEX 8060 Total chlorides </div> </div>																								
Address: <u>408 W. TEXAS AVE</u>		Company: <u>Line Rock Res.</u>																										
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>		Attn: <u>Terry Smith</u>																										
Phone #: <u>505-441-7254</u> Fax #: <u>505-746-8905</u>		Address: <u>303 East Main</u>																										
Project #: <u>201307-004.01</u> Project Owner: <u>Line Rock Res.</u>		City: <u>Artesia</u>																										
Project Name: <u>Williams A Federal Battery</u>		State: Zip: <u>88210</u>																										
Project Location: <u>Soc. 29-17s-28c</u>		Phone #: <u>505-748-9724</u>																										
Sampler Name: <u>Mike Stubblefield</u>		Fax #: <u>505-748-9810</u>																										
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													
	H20698-6	006 Excavated Area A 4' bgs	G				✓				✓			8/20/2010	10:17am	✓	✓	✓										
	7	007 Excavated Area B 6' bgs	G				✓				✓			8/20/2010	10:30am	✓	✓	✓										
	8	008 Excavated Area C 12' bgs	G											8/20/2010	10:50am	✓	✓	✓										
	9	009 Excavated Area 4' bgs Pipeline Rightaway	C											8/20/2010	10:53am	✓	✓	✓										

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Relinquished By:	Date: <u>8/23/2010</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>Mike Stubblefield</u>	Time: <u>11:14am</u>		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:	Received By:	REMARKS:	
	Time:	<u>Jodi Henderson</u>		
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - <u>Other</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Initials) <u>JS</u>		

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

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon LPE		BILL TO		ANALYSIS REQUEST																									
Project Manager: Mike Stubblefield		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>TPH 8015M</div> <div>BTEX 8060</div> <div>Total Chlorides</div> </div>																									
Address: 408 West Texas Ave.		Company: Lime Rock Res.																											
City: Artesia State: NM Zip: 88210		Attn: Jerry Smith																											
Phone #: 575-741-7254 Fax #: 575-746-8905		Address: 303 East Main																											
Project #: 701307.004.0 Project Owner: Lime Rock Res.		City: Artesia																											
Project Name: Williams A Federal Battery		State: Zip: 88210																											
Project Location: SEC. 29-17S-28E		Phone #: 575-742-9224																											
Sampler Name: Mike Stubblefield		Fax #: 575-742-9210																											
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR C/COMP. # CONTAINERS)	MATRIX					PRESERV.		SAMPLING																		
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME															
	H2DBF8-1	001 Eastside Wall	C			✓				✓			8/20/2010	11:19AM	✓	✓	✓												
	2	002 Southside Wall	C			✓				✓			8/20/2010	11:26AM	✓	✓	✓												
	3	003 Westside Wall	C			✓				✓			8/20/2010	11:35AM	✓	✓	✓												
	4	004. Northside Wall	C			✓				✓			8/20/2010	11:42AM	✓	✓	✓												
	5	005 Bottom Excavated Area	C			✓				✓			8/20/2010	11:55AM	✓	✓	✓												

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Relinquished By:	Date:	Received By:	Phone Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Phone #:
	Time:		Fax Result:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	Add'l Fax #:
Mike Stubblefield Relinquished By:		Date: 8/23/2010 Time: 11:14 am Received By: Jodi Henderson		REMARKS:		
Date: _____ Time: _____		Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No				
Delivered By: (Circle One) Sampler - UPS - Bus <input type="radio"/> Other: <input checked="" type="radio"/>		CHECKED BY: (Initials) JH				

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

#26



CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: <u>TALON LPE</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>MIKE STUBBLEFIELD</u>		P.O. #:		<div style="display: flex; justify-content: space-around;"> <div>TPH 8015 M</div> <div>BTEX 8060</div> <div>TOTAL CHLORIDES</div> </div>																							
Address: <u>408 W. TEXAS AVE</u>		Company: <u>LIME ROCK RES.</u>																									
City: <u>ARTCSIA</u> State: <u>NM</u> Zip: <u>88210</u>		Attn: <u>TERRY SMITH</u>																									
Phone #: <u>575-441-7254</u> Fax #: <u>575-746-8905</u>		Address: <u>303 EAST MAIN</u>																									
Project #: <u>201302-004.01</u> Project Owner: <u>LIME ROCK RES.</u>		City: <u>ARTCSIA</u>																									
Project Name: <u>WILLIAMS A FEDERAL BATTERY</u>		State: Zip: <u>88210</u>																									
Project Location: <u>SEC. 29-175-28c</u>		Phone #: <u>575-748-9724</u>																									
Sampler Name: <u>MIKE STUBBLEFIELD</u>		Fax #: <u>575-748-9810</u>																									
FOR LAB USE ONLY	Lab I.D.	Sample I.D.	(GRAB OR (C)OMP. # CONTAINERS	MATRIX					PRESERV.			SAMPLING															
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME													
	H20098-6	006 Excavated AREA A 4' bgs	G			✓					✓		8/20/2010	10:17am	✓	✓	✓										
	7	007 Excavated AREA B 6' bgs	G			✓					✓		8/20/2010	10:30AM	✓	✓	✓										
	8	008 Excavated AREA C 12' bgs	G										8/20/2010	10:50AM	✓	✓	✓										
	9	009 Excavated AREA 4' bgs Pipeline Rightaway	C										8/20/2010	10:55am	✓	✓	✓										

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Relinquished By:	Date: <u>8/23/2010</u>	Received By:	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
<u>MIKE STUBBLEFIELD</u>	Time: <u>11:14AM</u>	<u>Jodi Benson</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Relinquished By:	Date:		REMARKS:	
	Time:			
Delivered By: (Circle One)	Sample Condition	CHECKED BY:		
Sampler - UPS - Bus - <u>Other</u>	Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	<u>JA</u>		

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#26

September 10, 2010

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WILLIAMS A FEDERAL BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 09/08/10 15:22.

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:	09/08/2010	Sampling Date:	09/08/2010
Reported:	09/10/2010	Sampling Type:	Soil
Project Name:	WILLIAMS A FEDERAL BATTERY	Sampling Condition:	** (See Notes)
Project Number:	701307-004.01	Sample Received By:	Jodi Henson
Project Location:	SEC. 29-17S-28 E		

Sample ID: 001 S SIDE WALL 4' OF P/L 1'BGS (H020814-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/09/2010	ND	432	108	400	0.00	

Sample ID: 002 E SIDE WALL 4' E OF E SIDE WALL (H020814-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	09/09/2010	ND	432	108	400	0.00	

Sample ID: 003 EXCAVATED AREA 6' BGS (H020814-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	09/09/2010	ND	432	108	400	0.00	

Sample ID: 004 EAST SIDE WALL (H020814-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	09/09/2010	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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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

Company Name: <u>Talon/LPF</u>				BILL TO				ANALYSIS REQUEST													
Project Manager: <u>Mike Stubblefield</u>				P.O. #:				Total chlorides													
Address: <u>408 West Texas Ave.</u>				Company: <u>Lime Rock Res.</u>																	
City: <u>Artesia</u> State: <u>NM</u> Zip: <u>88210</u>				Attn: <u>Jerry Smith</u>																	
Phone #: <u>505-441-7254</u> Fax #: <u>505-248-8965</u>				Address: <u>303 East Main</u>																	
Project #: <u>201307-004.01</u> Project Owner: <u>Lime Rock Res.</u>				City: <u>Artesia</u>																	
Project Name: <u>Williams A Federal Tank battery</u>				State: <u>NM</u> Zip: <u>88210</u>																	
Project Location: <u>acc. 29-17c-28c</u>				Phone #: <u>505-248-9724</u>																	
Sampler Name: <u>Mike Stubblefield</u>				Fax #: <u>505-248-9810</u>																	
FOR LAB USE ONLY		Lab I.D.		Sample I.D.		(Q)RAB OR (C)COMP. # CONTAINERS		MATRIX					PRESERV		SAMPLING		DATE		TIME		
								GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE					OTHER:
		120714-1		001 South side Wall 4' south of pipeline 1' bgs.		G												9/8/2010		10:07A	
		2		002 East side Wall 4' east of the east side Wall 1' bgs.		G												9/8/2010		10:24A	
		3		003 Excavated area B 6' bgs.		G												9/8/2010		10:43A	
		4		004 East side Wall		C												9/8/2010		11:02A	
				005 South excavated area		G												9/8/2010		11:02A	
				006 South excavated area		G															

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Relinquished By: <u>Mike Stubblefield</u>		Date: <u>9/8/2010</u>		Received By:		Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:	
		Time: <u>3:22 PM</u>				Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Fax #:	
Relinquished By:		Date:		Received By:		REMARKS:	
		Time:					
Delivered By: (Circle One)				Sample Condition		CHECKED BY:	
Sampler - UPS - Bus - Other:				Cool Intact		(Initials)	
				<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No		<u>[Signature]</u>	

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Lime Rock Resources Williams A Tank Battery

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