#### Bratcher, Mike, EMNRD

From:

Michael Stubblefield [mstubblefield@talonlpe.com]

Sent:

Tuesday, September 07, 2010 7:20 AM

To:

Bratcher, Mike, EMNRD

Subject:

FW: WILLIAMS A FEDERAL BATTERY

Attachments:

H20698 TALON.pdf

Mike,

Please review the attached analytical, I need to meet with you this morning. I'll come over to your office about 10:00am. If there is a problem with my meeting time give me at call at 575-441-7254.

Mike Stubblefield

**From:** Celey Keene [mailto:celey.keene@cardinallabsnm.com]

Sent: Thursday, September 02, 2010 1:36 PM

To: Michael Stubblefield

Subject: WILLIAMS A FEDERAL BATTERY

THANK YOU,

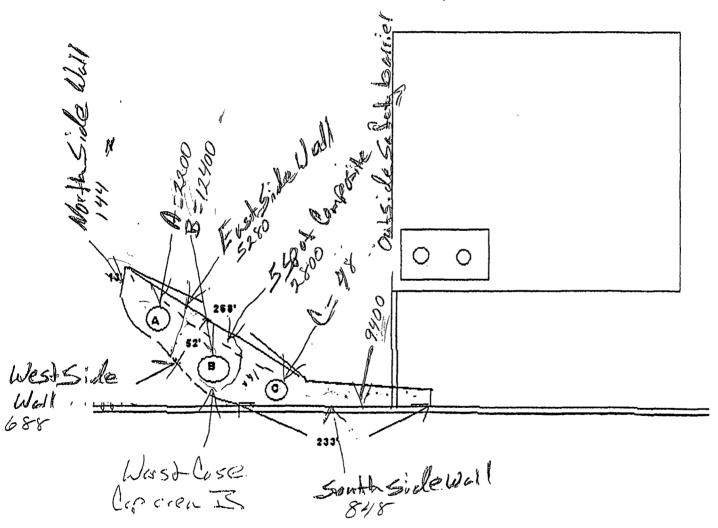
Celey Keene Lab Director **Cardinal Laboratories** 101 East Marland Hobbs, NM 88240

T: (575) 393-2326 F: (575) 393-2476

e-mail: celey.keene@cardinallabsnm.com

# 9-2-10 Lot Analyticals.

#### Lime Rock Resources Williams A Tank Battery





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 Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (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



**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: Project Location: 701307.004.01 SEC. 29-17S-28 E Sampling Date:

08/20/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: 001 EASTISIDE WALL (H020698-01)

BTEX 8021B	mg/	kg	Analyze	d 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	Analyze	d 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	Analyze	d By: AB		2.0			
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							

Cardinal Laboratories \*=Accredited Analyte

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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: Sampling Type:

ig Date:

Soil

Sampling Condition:

Cool & Intact

08/20/2010

Sample Received By:

Jodi Henson

#### Sample ID: 002 SOUTHSIDE WALL (H020698-02)

BTEX 8021B	mg/	/kg	Analyze	d 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, SM4500CI-B	mg/	/kg	Analyze	d 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	Analyze	d 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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MIKE STUBBLEFIELD
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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: 003 WESTSIDE WALL (H020698-03)

BTEX 8021B	mg/	kg	Analyze	d 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-Bromofluorohenzene (PIL	104 9	% 80-120	)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM	,,,,,,				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<b>688</b> 16.0		08/24/2010	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d 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 9	% 70-130	)			* 1 * 1 1			
Surrogate 1-Chlorooctadecane	124 9	% 70-130	)						

Analogad Box 616

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Received:

08/23/2010

Reported:

09/02/2010

Project Name:

WILLIAMS A FEDERAL BATTERY

Project Number: Project Location: 701307.004.01

SEC. 29-17S-28 E

Sampling Date:

08/20/2010

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: 004 NORTHSIDE WALL (H020698-04)

BTEX 8021B	mg/	kg	Analyze	d 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 5	% 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 70-130							
Surrogate 1-Chlorooctadecane	123 9	% 70-130							

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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: Project Location:

701307.004.01 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	Analyze	d 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 5	% 80-120							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d 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 9	% 70-130							
Surrogate 1-Chlorooctadecane	118	% 70-130							

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Received:

08/23/2010

Reported: Project Name: 09/02/2010

WILLIAMS A FEDERAL BATTERY

Project Number: Project Location: 701307.004.01

SEC. 29-17S-28 E

Sampling Date:

08/20/2010

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

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

BTEX 8021B	mg/	'kg	Analyze	d 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 5	% 80-120							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d 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	Analyze	d 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 9	% 70-130			<del> </del>				
Surrogate 1-Chlorooctadecane	105	% 70-130							

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Received:

08/23/2010

Reported: Project Name: 09/02/2010

WILLIAMS A FEDERAL BATTERY

Project Number:

701307.004.01

Project Location:

SEC. 29-17S-28 E

Sampling Date:

Sampling Type:

08/20/2010

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

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

BTEX 8021B	mg,	/kg	Analyze	d 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, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d 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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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

Sampling Date:

08/20/2010

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

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	Analyze	d 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, SM4500CI-B	mg/	kg	Analyze	d 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	Analyze	d 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	
Sui rogate 1-Chlorooctane	103	% 70-130	)						-
Surrogate 1-Chlorooctadecane	115	% 70-130	)						

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Received:

08/23/2010

09/02/2010

Reported: 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: Sampling Condition: Sample Received By: Soil Cool & Intact

Jodi Henson

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

BTEX 8021B	mg/	kg	Analyze	d 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	1						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d 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	)						

Cardinal Laboratories \*=Accredited Analyte

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 client for 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 thirty (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 incident by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



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

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

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

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

#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: TALONLPE BILL TO ANALYSIS REQUEST Miko STubblefield P.O. #: Project Manager: 40% W. TELAS AVE Company: Lime Rock Rer-Address: Artesia State: NM Zip: 28210 Attn: Terry Smith City: Address: 303 Engl Main 595-441-7254 Fax #: 596-746-8905 Phone #: 201302.004.01 Project Owner: Line Rock Rel. City: ActoSTA. Project #: Williams A Federal Battery Zip: 88210 Project Name: State: Project Location: Sec. 29-175-28c Phone #: **(ነ**ኝ- ንፋፄ - ኳን ፘዟ Mae Shelleful Fax#: 575-248-9810 Sampler Name: PRESERV SAMPLING MATRIX FOR LAB USE ONLY Total chlosides (G)RAB OR (C)OMP WASTEWATER SLUDGE OTHER: ACID/BASE: ICE / COOL Sample I.D. Lab I.D. SOIL DATE TIME 1420599-60 OODERCANTED ATEA A 4 bgs 8/20/2010 10:17Am 007 Excavated RICA B 6'595 8/20/2010 10:30 Am 3 008 Excavated AMA C 12'bsc 8/20/EXC 10:50AM 9 009 Excavated Area 4'bas 8/20/2010 10:55AM Pipeline Rightaway

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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476