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Soil Assessment and Remediation Work Plan

Falcon 3 G Federal #32 * 30-015-41466

Prepared For:

Lime Rock Resources II-A, L.P.

Prepared By:

Kimberly M. Wilson

TALON/LPE

408 W. Texas Avenue

Artesia, New Mexico 88210

April 28, 2017

Mr. Mike Bratcher
NMOCD District 2
811 S. 1st Street
Artesia, NM 88210

Subject: **Soil Assessment and Remediation Work Plan**
Falcon 3 G Federal #32
30-015-41466

Dear Mr. Bratcher,

Lime Rock Resources II-A, L.P. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

Site Information

The Falcon 3 G Federal #32 is located approximately fourteen (14) miles southeast of Artesia, New Mexico. The legal location for this release is Unit Letter G, Section 3, Township 18 South and Range 27 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.77767 North and -104.264961 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Reeves-Gypsum land complex soils with 0 to 3 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by gypsum and hard caliche. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico State Engineer web site indicates the nearest ground water is 50' below ground surface (BGS). See [Appendix II](#) for the referenced groundwater data.

Therefore the ranking for this site is a **10** based on the following:

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

Based upon the site ranking of **10**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 1,000 mg/kg for TPH and the recommended guidelines for total chlorides is 1,000 mg/kg.

Incident Description and Initial Remedial Actions

On April 10, 2017 the packing on the stuffing box blew out causing an unknown amount mixed fluids to be released on the location. The well was shut-in until repairs could be made. All fluids remained on the bermed location. A vac truck was immediately call to the location and recovered 40 barrels of fluid. A site plan is presented in [Appendix I](#) which illustrates the impacted area.

On April 10th and 13th 2017 Talon mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a backhoe. Laboratory results are presented below.

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

April 24, 2017

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	1.37	14200	<100	978
	1'	<0.300	1440	<10	<10
	2'	<0.300	48	<10	<10
	3'	<0.300	336	<10	<10
	4'	--	384	--	--
	5'	--	320	--	--
S-2	0'	<0.300	14800	<10	<10
	1'	<0.300	496	<10	<10
	2'	<0.300	368	<10	<10
	3'	<0.300	192	<10	<10
	4'	--	128	--	--
	5'	--	144	--	--
S-3	0'	<0.300	5330	<10	<10
	1'	<0.300	624	<10	<10
	2'	<0.300	112	<10	<10
	3'	--	80	--	--
	4'	--	304	--	--
	5'	--	320	--	--
S-4	0'	<0.300	320	<10	<10
	1'	<0.300	64	<10	<10
	2'	<0.300	128	<10	<10
	3'	<0.300	32	<10	<10
	4'	--	48	--	--
	5'	--	112	--	--

April 24, 2017 cont.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-5	0'	--	336	--	--
	1'	<0.300	640	<10	<10
	2'	<0.300	256	<10	<10
	3'	<0.300	48	<10	<10
	4'	--	32	--	--
S-6	0'	<0.300	128	<10	10.7
	1'	<0.300	32	<10	<10
	2'	<0.300	64	<10	<10
	3'	--	48	--	--
	4'	--	48	--	--
S-7	0'	<0.300	688	<10	<10
	1'	<0.300	32	<10	<10
	2'	--	64	--	--

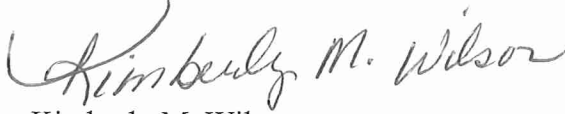
Proposed Remedial Actions

- The impacted soil in the vicinity of sample location S-1, S-2 and S-3 will be excavated to a depth of 1.0-feet deep.
- All contaminated soil will be transported to Lea Land, LLC, a NMOCD approved disposal facility.
- The excavated area will be backfilled with new caliche. Once the backfill activities are complete the work area will be compacted.
- A final closure report documenting all remedial actions will be provided to the BLM and NMOCD Artesia Office along with a Final C-141 Form.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

TALON/LPE



Kimberly M. Wilson
Project Manager



David J. Adkins
District Manager

Attachments:

- Appendix I Site Plan
- Appendix II Groundwater Data & Initial C-141
- Appendix III Laboratory Results

APPENDIX I
SITE MAP

Legend

- FALCON 3 G FEDERAL #032
- Sample points
- Impacted area

FALCON 3 G FEDERAL #032



S-6

S-2

S-5

S-1

S-3

S-4

S-7



100 ft

APPENDIX II
GROUNDWATER DATA
INITIAL C-141

Falcon 3G Fed #32



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q	Q	Q	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
RA 03917			LE	4	1	2	10	18S	27E	569019	3625660*	1566	130	50	80

Average Depth to Water: 50 feet

Minimum Depth: 50 feet

Maximum Depth: 50 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 569198

Northing (Y): 3627216

Radius: 3000

*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.

4/13/17 7:02 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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, LP	Contact : Mike Barrett
Address : 1111 Bagby Street Suite 4600, Houston, TX 77002	Telephone No. : 575-365-9724
Facility Name : FALCON 3 G FEDERAL 32	Facility Type: Well

Surface Owner :	Mineral Owner:	Lease No. 30-015-41466
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LOCATION OF RELEASE

Unit Letter G	Section 3	Township 18S	Range 27E	Feet from the 2065'	North/South Line FNL	Feet from the 2205'	East/West Line FEL	County Eddy
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Latitude 32.7776756 N Longitude -104.2649612 W

NATURE OF RELEASE

Type of Release : Oil & Produced Water	Volume of Release : Unknown	Volume Recovered: 40 bbls
Source of Release : Stuffing Box leak	Date and Hour of Occurrence: 4/10/2017	Date and Hour of Discovery: 4/10/2017
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? OCD/Mike Bratcher BLM/Shelly Tucker	
By Whom? Kimberly Wilson	Date and Hour: 4/10/2017	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* The packing blew out of the stuffing box which caused the release. An unknown amount of mixed fluids were released on the bermed location. A vac truck was called to the location and recovered 40 barrels of mixed fluids. The well was shut in and repaired.

Describe Area Affected and Cleanup Action Taken.* A backhoe was immediately called to the location to scrape up the visibly impacted areas and transported to a NMOCD disposal facility. Talon/LPE was called to perform site assessment and sampling activities.

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: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Michael Barrett	Approved by District Supervisor:		
Title: Production Superintendent	Approval Date:	Expiration Date:	
E-mail Address: mbarrett@limerockresources.com	Conditions of Approval:		Attached ☐
Date: 4/13/2017 Phone: 575-365-9724			

* Attach Additional Sheets If Necessary

APPENDIX III
LABORATORY RESULTS



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

April 24, 2017

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FALCON 3G FED #32

Enclosed are the results of analyses for samples received by the laboratory on 04/17/17 11:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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 (V1, 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
 KIMBERLY WILSON
 408 W. TEXAS AVE.
 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H701006-01)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2017	ND	1.94	97.0	2.00	0.421		
Toluene*	0.108	0.050	04/20/2017	ND	1.83	91.5	2.00	0.301		
Ethylbenzene*	0.294	0.050	04/20/2017	ND	1.84	92.1	2.00	0.743		
Total Xylenes*	0.968	0.150	04/20/2017	ND	5.26	87.7	6.00	0.775		
Total BTEX	1.37	0.300	04/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 104 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14200	16.0	04/20/2017	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	978	100	04/18/2017	ND	191	95.3	200	2.91	

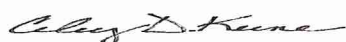
Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 120 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 1' (H701006-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2017	ND	1.94	97.0	2.00	0.421		
Toluene*	<0.050	0.050	04/20/2017	ND	1.83	91.5	2.00	0.301		
Ethylbenzene*	<0.050	0.050	04/20/2017	ND	1.84	92.1	2.00	0.743		
Total Xylenes*	<0.150	0.150	04/20/2017	ND	5.26	87.7	6.00	0.775		
Total BTEX	<0.300	0.300	04/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	04/20/2017	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

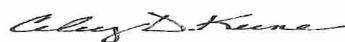
Surrogate: 1-Chlorooctane 110 % 28.3-164

Surrogate: 1-Chlorooctadecane 116 % 34.7-157

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 2' (H701006-03)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2017	ND	1.89	94.7	2.00	2.46	
Toluene*	<0.050	0.050	04/20/2017	ND	1.80	89.9	2.00	2.22	
Ethylbenzene*	<0.050	0.050	04/20/2017	ND	1.81	90.6	2.00	2.95	
Total Xylenes*	<0.150	0.150	04/20/2017	ND	5.16	86.0	6.00	2.74	
Total BTEX	<0.300	0.300	04/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 96.6 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/20/2017	ND	432	108	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

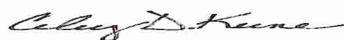
Surrogate: 1-Chlorooctane 108 % 28.3-164

Surrogate: 1-Chlorooctadecane 117 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/10/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 3' (H701006-04)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/20/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/20/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/20/2017	ND	5.16	86.0	6.00	2.74		
Total BTEx	<0.300	0.300	04/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PI) 97.1 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/21/2017	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80		
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91		

Surrogate: 1-Chlorooctane 120 % 28.3-164

Surrogate: 1-Chlorooctadecane 128 % 34.7-157

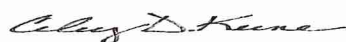
Sample ID: S-1 4' (H701006-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	04/21/2017	ND	432	108	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	FALCON 3G FED #32	Sampling Condition:	Cool & Intact
Project Number:	701307.097.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-1 5' (H701006-06)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	04/21/2017	ND	432	108	400	7.69	

Sample ID: S-2 0' (H701006-07)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2017	ND	1.89	94.7	2.00	2.46	
Toluene*	<0.050	0.050	04/20/2017	ND	1.80	89.9	2.00	2.22	
Ethylbenzene*	<0.050	0.050	04/20/2017	ND	1.81	90.6	2.00	2.95	
Total Xylenes*	<0.150	0.150	04/20/2017	ND	5.16	86.0	6.00	2.74	
Total BTEX	<0.300	0.300	04/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 97.2 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	04/21/2017	ND	432	108	400	7.69	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

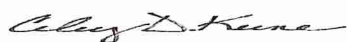
Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 112 % 34.7-157

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-2 1' (H701006-08)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/20/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/20/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/20/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/20/2017	ND	5.16	86.0	6.00	2.74		
Total BTEx	<0.300	0.300	04/20/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/21/2017	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

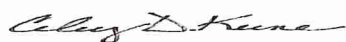
Surrogate: 1-Chlorooctane 110 % 28.3-164

Surrogate: 1-Chlorooctadecane 118 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 2' (H701006-09)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/20/2017	ND	1.89	94.7	2.00	2.46	
Toluene*	<0.050	0.050	04/20/2017	ND	1.80	89.9	2.00	2.22	
Ethylbenzene*	<0.050	0.050	04/20/2017	ND	1.81	90.6	2.00	2.95	
Total Xylenes*	<0.150	0.150	04/20/2017	ND	5.16	86.0	6.00	2.74	
Total BTX	<0.300	0.300	04/20/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 95.4 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/21/2017	ND	432	108	400	7.69	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

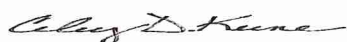
Surrogate: 1-Chlorooctane 95.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 3' (H701006-10)

BTEX 8021B			mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46				
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22				
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95				
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74				
Total BTEX	<0.300	0.300	04/21/2017	ND								

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/21/2017	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80		
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91		

Surrogate: 1-Chlorooctane 98.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 105 % 34.7-157

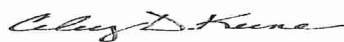
Sample ID: S-2 4' (H701006-11)

Chloride, SM4500Cl-B			mg/kg Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/21/2017	ND	432	108	400	7.69		

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Analytical Results For:

TALON LPE
KIMBERLY WILSON
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ARTESIA NM, 88210
Fax To: (575) 745-8905

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 5' (H701006-12)

Chloride, SM4500Cl-B			mg/kg								Analyzed By: AC	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Chloride	144	16.0	04/21/2017	ND	432	108	400	7.69				

Sample ID: S-3 0' (H701006-13)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEX	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 95.7 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5330	16.0	04/21/2017	ND	432	108	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

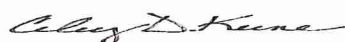
Surrogate: 1-Chlorooctane 120 % 28.3-164

Surrogate: 1-Chlorooctadecane 129 % 34.7-157

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Analytical Results For:

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 1' (H701006-14)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEx	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 98.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	624	16.0	04/21/2017	ND	432	108	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

Surrogate: 1-Chlorooctane 105 % 28.3-164

Surrogate: 1-Chlorooctadecane 113 % 34.7-157

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Analytical Results For:

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-3 2' (H701006-15)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEX	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 97.8 % 72-148

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80		
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91		

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 109 % 34.7-157

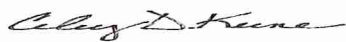
Sample ID: S-3 3' (H701006-16)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	04/21/2017	ND	448	112	400	3.64		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 4' (H701006-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	04/21/2017	ND	448	112	400	3.64		

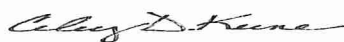
Sample ID: S-3 5' (H701006-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/21/2017	ND	448	112	400	3.64		

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Analytical Results For:

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-4 0' (H701006-19)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEX	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/18/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/18/2017	ND	191	95.3	200	2.91	

Surrogate: 1-Chlorooctane 108 % 28.3-164

Surrogate: 1-Chlorooctadecane 118 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H701006-20)

BTEx 8021B			mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46				
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22				
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95				
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74				
Total BTEx	<0.300	0.300	04/21/2017	ND								

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	182	90.9	200	3.80	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	191	95.3	200	2.91	

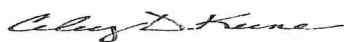
Surrogate: 1-Chlorooctane 119 % 28.3-164

Surrogate: 1-Chlorooctadecane 127 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 2' (H701006-21)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEx	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 97.4 % 72-148

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/19/2017	ND	182	90.9	200	3.80		
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	191	95.3	200	2.91		

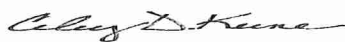
Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 121 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 3' (H701006-22)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEx	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.5 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

Surrogate: 1-Chlorooctane 105 % 28.3-164

Surrogate: 1-Chlorooctadecane 117 % 34.7-157

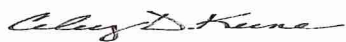
Sample ID: S-4 4' (H701006-23)

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/21/2017	ND	448	112	400	3.64		

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 5' (H701006-24)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/21/2017	ND	448	112	400	3.64		

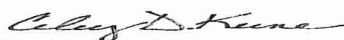
Sample ID: S-5 0' (H701006-25)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/21/2017	ND	448	112	400	3.64		

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Analytical Results For:

 TALON LPE
 KIMBERLY WILSON
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 ARTESIA NM, 88210
 Fax To: (575) 745-8905

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 1' (H701006-26)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEX	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 72-148

Chloride, SM4500CI-B			mg/kg							
			Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	640	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774		
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40		

Surrogate: 1-Chlorooctane 77.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 82.9 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-5 2' (H701006-27)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEX	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.0 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	256	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

Surrogate: 1-Chlorooctane 116 % 28.3-164

Surrogate: 1-Chlorooctadecane 127 % 34.7-157

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Analytical Results For:

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

Received:	04/17/2017	Sampling Date:	04/13/2017
Reported:	04/24/2017	Sampling Type:	Soil
Project Name:	FALCON 3G FED #32	Sampling Condition:	Cool & Intact
Project Number:	701307.097.01	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: S-5 3' (H701006-28)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46	
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22	
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95	
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74	
Total BTX	<0.300	0.300	04/21/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 98.1 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/21/2017	ND	448	112	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 124 % 34.7-157

Sample ID: S-5 4' (H701006-29)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/21/2017	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 0' (H701006-30)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46		
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74		
Total BTEx	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 95.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	04/21/2017	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774		
DRO >C10-C28	10.7	10.0	04/19/2017	ND	194	97.0	200	2.40		

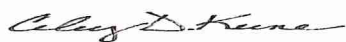
Surrogate: 1-Chlorooctane 124 % 28.3-164

Surrogate: 1-Chlorooctadecane 135 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 1' (H701006-31)

BTEx 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2017	ND	1.89	94.7	2.00	2.46	
Toluene*	<0.050	0.050	04/21/2017	ND	1.80	89.9	2.00	2.22	
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.81	90.6	2.00	2.95	
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.16	86.0	6.00	2.74	
Total BTEX	<0.300	0.300	04/21/2017	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 98.2 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/21/2017	ND	448	112	400	3.64	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

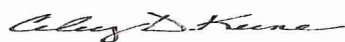
Surrogate: 1-Chlorooctane 111 % 28.3-164

Surrogate: 1-Chlorooctadecane 119 % 34.7-157

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 2' (H701006-32)

BTEx 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/21/2017	ND	1.99	99.3	2.00	3.03	
Toluene*	<0.050	0.050	04/21/2017	ND	1.89	94.5	2.00	2.85	
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.92	95.8	2.00	2.39	
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.47	91.1	6.00	2.37	
Total BTEX	<0.300	0.300	04/21/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 72-148

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/21/2017	ND	448	112	400	3.64	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

Surrogate: 1-Chlorooctane 123 % 28.3-164

Surrogate: 1-Chlorooctadecane 134 % 34.7-157

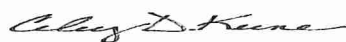
Sample ID: S-6 3' (H701006-33)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/21/2017	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 04/17/2017
 Reported: 04/24/2017
 Project Name: FALCON 3G FED #32
 Project Number: 701307.097.01
 Project Location: EDDY COUNTY, NM

 Sampling Date: 04/13/2017
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-6 4' (H701006-34)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	04/21/2017	ND	448	112	400	3.64		

Sample ID: S-7 0' (H701006-35)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	1.99	99.3	2.00	3.03		
Toluene*	<0.050	0.050	04/21/2017	ND	1.89	94.5	2.00	2.85		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	1.92	95.8	2.00	2.39		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.47	91.1	6.00	2.37		
Total BTEX	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 98.5 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	04/21/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	12.8	10.0	04/19/2017	ND	194	97.0	200	2.40	

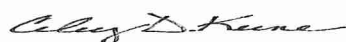
Surrogate: 1-Chlorooctane 126 % 28.3-164

Surrogate: 1-Chlorooctadecane 136 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received: 04/17/2017
Reported: 04/24/2017
Project Name: FALCON 3G FED #32
Project Number: 701307.097.01
Project Location: EDDY COUNTY, NM

Sampling Date: 04/13/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 1' (H701006-36)

BTEx 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	04/21/2017	ND	2.12	106	2.00	0.264		
Toluene*	<0.050	0.050	04/21/2017	ND	2.00	99.8	2.00	1.18		
Ethylbenzene*	<0.050	0.050	04/21/2017	ND	2.01	100	2.00	1.52		
Total Xylenes*	<0.150	0.150	04/21/2017	ND	5.72	95.3	6.00	1.31		
Total BTEx	<0.300	0.300	04/21/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/21/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/19/2017	ND	191	95.5	200	0.774	
DRO >C10-C28	<10.0	10.0	04/19/2017	ND	194	97.0	200	2.40	

Surrogate: 1-Chlorooctane 129 % 28.3-164

Surrogate: 1-Chlorooctadecane 138 % 34.7-157

Sample ID: S-7 2' (H701006-37)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/21/2017	ND	448	112	400	0.00	

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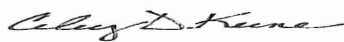
Notes and Definitions

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

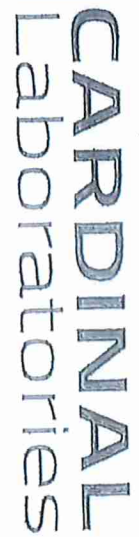
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Page 1 of 4

ANALYSIS REQUEST

* Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326.



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 4

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

ANALYSIS REQUEST

BILL TO

Company Name: Talon/LPE

P.O. #:

Project Manager: Kimberly Dillane

Company: Talon/LPE

Address: 408 W. Texas Ave.

Attn:

City: Artesia

State: NM Zip: 88210

Phone #: 575-746-8768

Fax #: 575-746-8905

Address:

Project #: 701307.097.01

Project Owner: Kim Rock

City:

Project Name: Alden 34 Federal #1

State:

Zip:

Project Location:

Phone #:

Sample Name: Kim Wood

Fax #:

FOR LAB USE ONLY

MATRIX PRESERV SAMPLING

Lab I.D.

Sample I.D.

H701006

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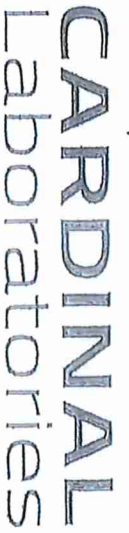
Page 3 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST

Company Name: Talon/LPE		P.O. #:	
Project Manager: Kimberly Wilson		Company: Talon/LPE	
Address: 408 W. Texas Ave.		Attn:	
City: Artesia		State: NM Zip: 88210	
Phone #: 575-746-8768		Fax #: 575-746-8905	
Project #: 701307.097.01		Project Owner: Kim Rod	
Project Name: Eddy, City		State: Zip:	
Project Location: Eddy, City		Phone #: Fax #:	
Sampler Name: Kim Wilson		PRESERV. SAMPLING	
FOR LAB USE ONLY		MATRIX	
Lab I.D.		Sample I.D.	
H701307.097.01		H701307.097.01	
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326