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Remediation and Closure Report

Rio Blanco 33 Federal #1 30-025-36359 – 1RP-4734 Talon Project No. 700794.234.01

Prepared For:

Devon Energy Production 6488 Seven Rivers Hwy Artesia, New Mexico 88210

Prepared By:

Kimberly M. Wilson TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

November 13, 2017

NMOCD approves 1RP-4734 for closure.

By Olivia Yu at 9:12 am, Sep 05, 2018

APPROVED

Ms. Olivia Yu **NMOCD District I** 1625 N. French Dr. Hobbs, NM 88240

Subject: Remediation and Closure Report Rio Blanco 33 Federal #1 30-025-36359 - 1RP-4734

Dear Ms. Yu,

Devon Energy had contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Rio Blanco 33 Federal #1 located approximately forty (40) miles northwest of Jal, New Mexico. The legal location for this release is Unit Letter N, Section 33, Township 22 South and Range 34 East in Lea County, New Mexico. More specifically the latitude and longitude for the release are 32.3436928 North and -103.4783325 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services (NRCS) the soil in this area is made up of Pyote and Maljamar fine sands. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocene to middle Pleistocene in age and is comprised of eolian sands and piedmont deposits. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer (NMOSE) database indicates the average ground water in the area to be 162-feet below ground surface (bgs). A copy of this report is attached in Appendix II.

Therefore the ranking for this site is a **0** based on the following:

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

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene and 5,000 mg/kg for TPH. The NMOCD recommended guidelines for total chlorides is 600 mg/kg.

Incident Description and Initial Remedial Actions

On June 4, 2017, lightning struck a 500BBL fiberglass produced water tank causing it to catch fire and structurally compromising it. The wells were immediately shut in. The fire department assisted in extinguishing the fire and approximately 310 barrels of produced water were lost. A vacuum truck recovered approximately 310bbls produced water. All fluid stayed inside the lined earthen berm containment on location. A site plan illustrating the work area is attached in Appendix I.

Remedial Actions Taken

Pursuant to the meeting between NMOCD District I Office with OCD, Devon and Talon personnel along with the follow-up emails dated August 22 and 31, 2017, all remediation activities agreed upon were adhered too. See attached NMOCD emails regarding the stipulations/conditions in Appendix II.

The northern half of the former tank battery is the vicinity of S-1 was excavated to a depth of 1-foot deep. The southern portion of the work area was excavated to a depth of 2-feet deep and a 20-mil liner was keyed in and installed per NMOCD direction. Also as directed by NMOCD the area in the vicinity of S-3 was scraped to a depth of 0.25-feet deep and a confirmation sample was obtained. Sidewall samples of the excavated area were also collected per NMOCD direction. The laboratory results are presented below and Appendix III contains the complete laboratory analytical results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT
S-1/B-1	0.0	< 0.300	160	<10	942	266
	1.0	< 0.300	448	<10	17.7	<10
	3.0	< 0.300	192	<10	<10	<10
	4.0	< 0.300	96	<10	<10	<10
	5.0	< 0.300	48	<10	<10	<10
	10.0	< 0.300	32	<10	<10	
	15.0	< 0.300	32	<10	<10	124
	20.0	< 0.300	160	<10	<10	
	25.0	< 0.300	32			
	30.0	< 0.300	<16			
S-2 / B-2	0.0	< 0.300	1920	<10	13	<10
	1.0	< 0.300	1620	<10	1050	127
	3.0	< 0.300	560	<10	11.6	
	4.0	< 0.300	192	<10	<10	
	5.0	< 0.300	160	<10	<10	
	10.0	< 0.300	901	<10	<10	
	15.0	< 0.300	368	<10	<10	
	20.0	< 0.300	320	<10	<10	
S-3	0.0	< 0.300	992	<10	<10	
	0.25		352			

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO	TPH (mg/kg) EXT
S-4	0.0	< 0.300	32	<10	<10	
S-5	0.0	<0.300	<16	<10	<10	
S-6	0.0	< 0.300	<16	<10	<10	(an air)
W sidewall	1.0		208	<10	<10	<10
S sidewall	1.0		320	<10	<10	<10
S bottom	2.0		32	<10	<10	<10
E sidewall	1.0		432	<10	257	20.8
N sidewall	1.0		48	<10	11.4	<10
N bottom	2.0		288	<10	<10	<10

--Analyte Not Tested

All excavated soil was transported to Lea Land, LLC, a NMOCD approved disposal facility. The work area was backfilled with new/clean caliche which was obtained from Lea Land, LLC, machine compacted and then contoured to match the surrounding location

Closure

On behalf of Devon Energy, we respectfully request that no further actions be required and that closure with respect to these releases be granted. A Final C-141 is also attached. See Appendix IV.

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 ·

ly m. Wilson mber Kimberly M. Wilson

Rimberly M. Wusc Project Manager

David J. Adkins District Manager

Attachments:

Appendix ISite PlanAppendix IIGroundwater Data & Regulators StipulationsAppendix IIILaboratory ResultsAppendix IVFinal C-141

APPENDIX I

SITE MAP



APPENDIX II

GROUNDWATER DATA

REGULATORY STIPULATIONS



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	(R=POD been rep O=orpha	placed,						in t N								
serves a water right file.)	C=the fil closed)	e is		(qua		ers ar		allest to		4=5C) AD83 UT	Minn	netere)	(In feet	Y	
	,	POD			arg	est)			(14	AD05 01		netera)	(III IGGI	/	
		Sub-		Q	Q	Q									٧	Vater
POD Number	Code		County	64	16	; 4	Sec			Х		Υ	, 2011년 - 2016년 1월 1월 1일 (1917년 - 2018) - 2018년 1월 1919년 1월 1919년 1월 1919년 1월 1919년 1월 1919년 1월 1919년 1월 1919년 1월 1919년 - 1월 1919년 1월	othWellDepthV		
CP 01075 POD1		CP	LE		1	1	80	23S	34E	641278	357752	25 🔵	2503	430	20	410
CP 00872 POD1		CP	LE	1	1	1	08	23S	34E	641225	357750	4* 🔘	2555	494	305	189
CP 01130 POD2		CP	LE	2	1	2	07	23S	34E	640674	357754	19 🔵	2938	27		
CP 01130 POD1		CP	LE	2	1	2	07	23S	34E	640662	357758	58 🔵	2941	27		
												Aver	age Depth to W	ater:	162 fe	et
													Minimum De	pth:	20 fe	et
													Maximum Dej	pth:	305 fe	et
Record Count:4							q				**********					
UTMNAD83 Rad	lius Search	(in met	ers):													
Easting (X): 6	643006		Nort	hin	g ('	Y):	3579	9337			Radius:	3000				
*UTM location was der	ived from PL	SS - see	Help													
The data is furnished by concerning the accuracy	the NMOSE/	ISC and ss, reliabi	is accepte lity, usabili	d by ity, c	the	e re uital	cipier bility 1	t with for any	the exp particul	ressed unde lar purpose	erstanding of the data	that th a.	e OSE/ISC make	no warranties, exp	pressed o	r implied,
8/1/17 10:15 AM											ana an		WATER COL WATER	_UMN/ AVERAG	E DEPT	НТО

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action

	OPERATOR	🛛 Initial Report	Final Repor
Name of Company Devon Energy Production Company	Contact Randall Gladden, P	roduction Foreman	
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-513-9463	3	
Facility Name Rio Blanco 33 Federal #1	Facility Type Salt Water Dis	posal	

Surface Owner Private

Mineral Owner Federal

API No 30-025-36359

LOCATION OF RELEASE

Unit Letter Section Township Range N 33 22S 34E	Feet from the 1000	North/South Line South	Feet from the 1620	East/West Line West	County Lea
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Latitude: 32.3436928 Longitude: -103.4783325

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 310 BBLS Volume Recovered 310 BBLS
Source of Release	Date and Hour of Occurrence Date and Hour of Discovery
Produced water storage tank	6/4/2017 9:18@ pm 6/4/2017 9:18@ pm
Was Immediate Notice Given?	If YES, To Whom?
Yes No Not Required	BLM-Shelly Tucker
	OCD-Olivia Yu
By Whom? David Simmons, Assistant Production Foreman	Date and Hour
by whom. David Siminons, Assistant Froduction Foreman	BLM - 8/29/2016 @ 11:48 pm
	OCD - 8/29/2016 @ 11:58 pm
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse
Yes X No	N/A
	RECEIVED
If a Watercourse was Impacted, Describe Fully.* N/A	
	By Olivia Yu at 9:58 am, Jun 26, 2017
Describe Cause of Problem and Remedial Action Taken.*	
	tch fire and structurally compromising it. The wells were immediately shut in.
The fire department assisted in extinguishing the fire.	
Describe Area Affected and Cleanup Action Taken.*	
	ng struck. A vacuum truck recovered approximately 310bbls produced water.
All fluid stayed inside the earthen berm containment on location.	
	he best of my knowledge and understand that pursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release no	otifications and perform corrective actions for releases which may endanger
	NMOCD marked as "Final Report" does not relieve the operator of liability
	e contamination that pose a threat to ground water, surface water, human health
	pes not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	
	OIL CONSERVATION DIVISION
Signature: Dana DeLaRosa	a 1
	<u>o</u>
Printed Name: Dana DeLaRosa	Approved by Environmental Specialist:
Title: Field Admin Support	Approval Date: 6/26/2017 Expiration Date:
E-mail Address: Dana.Delarosa@dvn.com	Conditions of Approval:
	Attached
Date: Phone: 575.746-5594	see attached directive
* Attach Additional Sheets If Necessary	
Autori Additional Sheets II Necessary	1RP-4734 nOY1717736160

pOY1717736475

From: Sent: To: Subject: David Adkins Monday, September 18, 2017 12:16 PM Kimberly M. Wilson FW: [EXTERNAL] RE: Proposed remediation activities, Devon Rio Blanco 33 Fed 001, 1RP-4734

David J. Adkins District Manager Artesia Office: 575.746.8768 Direct: 575.616.4022 Cell: 575.441.4835 Fax: 575.746.8905 Emergency: 866.742.0742 Web: www.talonlpe.com



From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Friday, September 01, 2017 7:40 AM
To: Shoemaker, Mike <Mike.Shoemaker@dvn.com>; David Adkins <dadkins@talonlpe.com>
Cc: Fulks, Brett <Brett.Fulks@dvn.com>
Subject: RE: [EXTERNAL] RE: Proposed remediation activities, Devon Rio Blanco 33 Fed 001, 1RP-4734

Mr. Shoemaker:

Noted.

Thanks, Olivia

From: Shoemaker, Mike [mailto:Mike.Shoemaker@dvn.com]
Sent: Friday, September 1, 2017 7:20 AM
To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>; David Adkins <<u>dadkins@talonlpe.com</u>>
Cc: Fulks, Brett <<u>Brett.Fulks@dvn.com</u>>
Subject: Re: [EXTERNAL] RE: Proposed remediation activities, Devon Rio Blanco 33 Fed 001, 1RP-4734

Olivia,

The battery size will be shrinking and S-2 will be outside the secondary containment area for the new battery so we are moving forward with installment of the 20 mil liner at 2'. Thanks,

Get Outlook for iOS

From: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>
Sent: Friday, September 1, 2017 7:15:34 AM
To: David Adkins
Cc: Shoemaker, Mike; Fulks, Brett
Subject: [EXTERNAL] RE: Proposed remediation activities, Devon Rio Blanco 33 Fed 001, 1RP-4734

Good morning Mr. Adkins:

Thank you for the data in advance. Please include this document along with the remediation/closure report for 1RP-4734. Has the location of S-2 been confirmed to be under the new tank battery, and thus, does not necessitate a 20 mil liner at 2 ft. bgs because of the surface 80 mil liner under the entire tank battery?

Olivia

 From: David Adkins [mailto:dadkins@talonlpe.com]

 Sent: Thursday, August 31, 2017 4:57 PM

 To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>>

 Cc: Shoemaker, Mike <<u>Mike.Shoemaker@dvn.com</u>>; Fulks, Brett (<u>Brett.Fulks@dvn.com</u>) <<u>Brett.Fulks@dvn.com</u>>

 Subject: RE: Proposed remediation activities, Devon Rio Blanco 33 Fed 001, 1RP-4734

Hello Olivia,

Attached please find the confirmation sample analysis for the above referenced project. The chloride results are all below the permissible limits of 600 mg/kg for this project. We will proceed with the liner installation per your direction tomorrow. An updated site map detailing sampling locations excavation areas will be provided in the closure report documentation along with a Final C-141. Thank you.

Respectfully,

David J. Adkins District Manager Artesia Office: 575.746.8768 Direct: 575.616.4022 Cell: 575.441.4835 Fax: 575.746.8905 Emergency: 866.742.0742 Web: www.talonlpe.com



From: Yu, Olivia, EMNRD [mailto:Olivia.Yu@state.nm.us]
Sent: Thursday, August 31, 2017 12:14 PM
To: David Adkins <<u>dadkins@talonlpe.com</u>>
Cc: Shoemaker, Mike <<u>Mike.Shoemaker@dvn.com</u>>
Subject: RE: Proposed remediation activities, Devon Rio Blanco 33 Fed 001, 1RP-4734

Dear Mr. Adkins:

NMOCD approves of the delineation completed for 1RP-4734. These are the conditions of approval for remediation:

- 1. Laboratory analyses (TPH extended and chlorides) of sidewall and bottom confirmation samples for each of the 3 proposed areas of excavation (S1, S-2, and S-3).
- 2. On a scaled map, outline the areas represented by S-1, S-2, S-3; notate the depth of excavation for each of the areas; and the locations of confirmation samples.
- 3. As B-2 at 10 ft. bgs for S-2 is above permissible chloride levels of 600 mg/kg, please properly key in a minimal 20-mil liner at the bottom of the proposed 2 ft. excavation.

Please confirm and inform if clarification is required.

Thanks, Olivia

From: David Adkins [mailto:dadkins@talonlpe.com] Sent: Tuesday, August 22, 2017 6:45 PM To: Yu, Olivia, EMNRD <<u>Olivia.Yu@state.nm.us</u>> Cc: Shoemaker, Mike <<u>Mike.Shoemaker@dvn.com</u>> Subject: Proposed remediation activities, Devon Rio Blanco 33 Fed 001, 1RP-4734

Miss Yu,

Thank you for the time you afforded Mike and I this past Friday, it was very much appreciated. Pursuant to our conversations Devon Energy would like to immediately proceed with remediation in order to bring this facility back on line.

Attached please find the lab reports (2) from the drilling and the initial site assessment as well as a Google Earth image of the location. The lab report dated August 22, 2017 will be updated to include chlorides via Method 300 at two sample locations as discussed. (A rush analysis via Method 300 is a 3-5 day turnaround time.)

A data table summary of the laboratory results from inside the former battery area is presented below.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO Ext.
S-1 / B-1	0'	< 0.300	160	<10.0	1208
	1'	< 0.300	448	<10.0	17.7
	3'	< 0.300	192	<10.0	<10.0
	4'	< 0.300	96	<10.0	<10.0
	5'	< 0.300	48	<10.0	<10.0
S-2 / B-2	0'	< 0.300	1920	<10.0	13.0
	1'	< 0.300	1620	<10.0	1177
	3'	< 0.300	560	<10.0	11.6
	4'	< 0.300	192	<10.0	<10.0
	5'	< 0.300	160	<10.0	<10.0

Pursuant to our meeting, our proposed scope of work is as follows:

- Excavate the former tank battery area to a depth of 1-foot deep in the northern portion of the battery (S-1/B-1) and the southern half of the battery (S-2/B-2) to a depth of 2-feet deep.
- Collect confirmation samples from the bottom and side walls of the excavation. Present the data to NMOCD for
 permission to close the excavation.
- The area immediately to the north of the battery (sample location S-3) will be scraped (0.25-0.5-feet deep) and a confirmation sample will also be collected and presented to the NMOCD prior to backfilling.
- The excavated areas will be backfilled with caliche and contoured to match the surrounding location.
- A closure report documenting all remedial actions along with a Final C-141 Form will be presented to the NMOCD .

Thank you for your time and consideration in this matter. Respectfully submitted,

David J. Adkins District Manager Artesia Office: 575.746.8768 Direct: 575.616.4022

APPENDIX III

LABORATORY RESULTS



August 08, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RIO BLANCO

Enclosed are the results of analyses for samples received by the laboratory on 08/02/17 15:40.

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 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 (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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO	Sampling Condition:	Cool & Intact
Project Number:	33 FED 1 - 700794.234.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 0' (H702034-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 72-148							
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/07/2017	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/03/2017	ND	198	99.2	200	4.50	
DRO >C10-C28	942	10.0	08/03/2017	ND	199	99.6	200	3.47	
EXT DRO >C28-C36	266	10.0	08/03/2017	ND					
Surrogate: 1-Chlorooctane	88.3	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.9	% 34.7-15	7						

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 whitscever 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 incurred 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 claim is based to be setted reasons or otherwise. Results relate only to the samples identified above. This report shall once reproduced except in full with written approval of Cardinal laboratories.



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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO	Sampling Condition:	Cool & Intact
Project Number:	33 FED 1 - 700794.234.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-1 1' (H702034-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result Reporting Limi		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/07/2017	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	17.7	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					
Surrogate: 1-Chlorooctane	92.0	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	92.4	% 34.7-15	7						

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 profits incidented by subsidiaries, antificates or subsidiaries, and inflates or subsidiaries, and or or leaded to the performance of the services hereunder by Cardinal, regardless of whether such damins 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 Liboratories.

Celez Di Keine



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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO	Sampling Condition:	Cool & Intact
Project Number:	33 FED 1 - 700794.234.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 0' (H702034-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2,00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6,00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102	% 72-148							
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	08/07/2017	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	13.0	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	<10.0	10.0	08/04/2017	ND					
Surrogate: 1-Chlorooctane	85.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	87.7	% 34.7-15	7						

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Celley D. Keene



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

Received:	08/02/2017	Sampling Date:	08/02/2017
Reported:	08/08/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO	Sampling Condition:	Cool & Intact
Project Number:	33 FED 1 - 700794.234.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-2 1' (H702034-04)

BTEX 8021B	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/04/2017	ND	2.27	113	2.00	1.36	
Toluene*	<0.050	0.050	08/04/2017	ND	2.10	105	2.00	0.0527	
Ethylbenzene*	<0.050	0.050	08/04/2017	ND	2.19	110	2.00	1.11	
Total Xylenes*	<0.150	0.150	08/04/2017	ND	6.57	109	6.00	0.942	
Total BTEX	<0.300	0.300	08/04/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101	% 72-148	,						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1620	16.0	08/07/2017	ND	448	112	400	3.64	
ТРН 8015М	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/04/2017	ND	190	95.0	200	1.88	
DRO >C10-C28	1050	10.0	08/04/2017	ND	192	95.9	200	2.00	
EXT DRO >C28-C36	127	10.0	08/04/2017	ND					
Surrogate: 1-Chlorooctane	98.1	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	120	% 34.7-15	7						

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Celleg D. Kerne



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 $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keine

Relinquished By: Relinquished By: Delivered By: Sampler - UPS - B	PLEASE NOTE: Labity and Damages. Cardinal's liability analyses. All clams, including those for nepligence and an	Ŷ	wn	2/	Lab I.D.	Sampler Name:	Project Location:	Project #: Project Name:	Phone #:	city: Art	Address: 40	Project Manager:	101 (578 Company Name:	
Date: Time: 4, 1 c H, 1 c H, 1 c	Cardinal's lability and client's exclusive ren Cardinal's lability and client's exclusive ren	<-2 -	8-2-01		Sample I.D.	D. AJKWS / K. WI	22, 162 002	Project Owner: Pro Blanco 3	Fax #:	Sla State: NM Zip:	BW. TOKON A	K. WISSA	101 East Mariand, HODDS, NM 88240 (575) 393-2326 FAX (575) 393-2476 :	boratoria
	heap for any claim arising whether based in contract of fort, shall be limited to the annount paid by the client for the angle and the completion of the applicability of the completion of the completion of the applicability of the completion of t		-	0 6 	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	クルス Fax #:	growing and a	3 Fed 1 State: Zip:	7	Zip: Attn:	Company:	P.O. #:	40 3 8	
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No Add'I Phone #: No Add'I Fax #:													ANALYSIS REQUEST	CUSTODY AND ANALYSIS REQUEST

Page 7 of 7



August 24, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RIO BLANCO

Enclosed are the results of analyses for samples received by the laboratory on 08/18/17 16:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-9. 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/ga/lab accredited certif.html.

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

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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. Keine



Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-1 3'	H702213-01	Soil	17-Aug-17 15:30	18-Aug-17 16:08
B-1 4'	H702213-02	Soil	17-Aug-17 15:35	18-Aug-17 16:08
B-1 5'	H702213-03	Soil	17-Aug-17 15:40	18-Aug-17 16:08
B-1 10'	H702213-04	Soil	17-Aug-17 15:50	18-Aug-17 16:08
B-1 15'	H702213-05	Soil	17-Aug-17 16:00	18-Aug-17 16:08
B-1 20'	H702213-06	Soil	17-Aug-17 16:15	18-Aug-17 16:08
B-2 3'	H702213-07	Soil	17-Aug-17 14:30	18-Aug-17 16:08
B-2 4'	H702213-08	Soil	17-Aug-17 14:35	18-Aug-17 16:08
B-2 5'	H702213-09	Soil	17-Aug-17 14:40	18-Aug-17 16:08
B-2 10'	H702213-10	Soil	17-Aug-17 14:50	18-Aug-17 16:08
B-2 15'	H702213-11	Soil	17-Aug-17 15:00	18-Aug-17 16:08
B-2 20'	H702213-12	Soil	17-Aug-17 15:15	18-Aug-17 16:08
S-3 0'	H702213-13	Soil	17-Aug-17 14:30	18-Aug-17 16:08
S-4 0'	H702213-14	Soil	17-Aug-17 14:40	18-Aug-17 16:08
S-5 0'	H702213-15	Soil	17-Aug-17 14:50	18-Aug-17 16:08
S-6 0'	H702213-16	Soil	17-Aug-17 15:00	18-Aug-17 16:08

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TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210			Project Num Project Mana	ger: DAV	794.234.01	5			Reported: 24-Aug-17 16:	46
			_	B-1 3' 213-01 (So	, iI)					
			117044	.13-01 (50	,,					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	192		16.0	mg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-	148	7081901	MS	19-Aug-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			83.1 %	28.3	-164	7081902	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			86.8 %	34.7	-157	7081902	MS	19-Aug-17	8015B	

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Celez D. Kune .



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905										
			_	3-1 4' 213-02 (So	,in						
			117022	213-02 (30	лп) 			emose kaka del esamene emose e a marte a tradicio de tradicio de tradicio de tradicio de tradicio de tradicio d			
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	96.0		16.0	mg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B		
Volatile Organic Compounds	by EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID))		106 %	72-	148	7081901	MS	19-Aug-17	8021B		
Petroleum Hydrocarbons by (GC FID										
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B		
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B		
Surrogate: 1-Chlorooctane			93.3 %	28.3	-164	7081902	MS	19-Aug-17	8015B		
Surrogate: 1-Chlorooctadecane			97.6 %	34.7	-157	7081902	MS	19-Aug-17	8015B		

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Celeg D. Keine



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905										
				3-1 5' 213-03 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	48.0		16.0	nıg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B		
Volatile Organic Compounds by	y EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-	148	7081901	MS	19-Aug-17	8021B		
Petroleum Hydrocarbons by Go	C FID										
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B		
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B		
Surrogate: 1-Chlorooctane			88.6 %	28.3	-164	7081902	MS	19-Aug-17	8015B		
Surrogate: 1-Chlorooctadecane			93.3 %	34.7	-157	7081902	MS	19-Aug-17	8015B		

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Celez Detrene



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905										
				-1 10'							
			H7022	213-04 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds							44 800000000000000000000000000000000000				
Chloride	32.0		16.0	mg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72	148	7081901	MS	19-Aug-17	8021B		
Petroleum Hydrocarbons by GC	FID										
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B		
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B		
Surrogate: 1-Chlorooctane			86.3 %	28.3	164	7081902	MS	19-Aug-17	8015B		
Surrogate: 1-Chlorooctadecane			91.0 %	34.7	1.57	7081902	MS	19-Aug-17	8015B		

Green Analytical Laboratories

Soluble (DI Water Extraction)

								· · · · · · · · · · · · · · · · · · ·
Chloride	<10.0	10.0	mg/kg wet	10	B708206	JDA	23-Aug-17	EPA300.0

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Celeg & Keine



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905									
				-1 15' 213-05 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
	<u>mg pakaya ya paka a maanii ku ku</u>		Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			105 %	72-	148	7081901	MS	19-Aug-17	8021B	
Petroleum Hydrocarbons by GC	C FID			A						
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctane			85.3 %	28.3	-164	7081902	MS	19-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			90.1 %	34.7	-157	7081902	MS	19-Aug-17	8015B	

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Celey D. Keene



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905										
				-1 20' 213-06 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	160		16.0	mg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B		
Volatile Organic Compounds b	y EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72	148	7081901	MS	19-Aug-17	8021B		
Petroleum Hydrocarbons by G	C FID										
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
Surrogate: 1-Chlorooctane			85.3 %	28.3	-164	7081902	MS	20-Aug-17	8015B		
Surrogate: 1-Chlorooctadecane			92.5 %	34.7	-157	7081902	MS	20-Aug-17	8015B		

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TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905										
				3-2 3' 213-07 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	560		16.0	mg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-	148	7081901	MS	19-Aug-17	8021B		
Petroleum Hydrocarbons by GC	FID										
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
DRO >C10-C28	11.6		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
Surrogate: 1-Chlorooctane			79.4 %	28.3	-164	7081902	MS	20-Aug-17	8015B		
Surrogate: 1-Chlorooctadecane			84.7 %	34.7	-157	7081902	MS	20-Aug-17	8015B		

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TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905									
				3-2 4' 213-08 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds						***				141107-00-0020-0010-00-00-00-00-00-00-00-00-00-00-00-
Chloride	192		16.0	mg/kg	4	7082103	AC	21-Aug-17	4500-Cl-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-	148	7081901	MS	19-Aug-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctane			87.7 %	28.3	-164	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			93.6 %	34.7	-157	7081902	MS	20-Aug-17	8015B	

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				3-2 5' 213-09 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	160		16.0	mg/kg	4	7082104	AC	21-Aug-17	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			104 %	72-	148	7081901	MS	19-Aug-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctane			85.5 %	28.3	-164	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			89.6 %	34.7	-157	7081902	MS	20-Aug-17	8015B	

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				-2 10'						
			H7022	213-10 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	901		16.0	mg/kg	4	7082104	AC	22-Aug-17	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								a fa la fa
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	19-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-	148	7081901	MS	19-Aug-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctane			86.2 %	28.3	-164	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			89.8 %	34.7	-157	7081902	MS	20-Aug-17	8015B	
			Green Analy							

Green Analytical Laboratories

Soluble (DI Water Extraction)

Chloride	869	20.0	mg/kg wet	20	B708206	JDA	23-Aug-17	EPA300.0	

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				-2 15' 213-11 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories			<u></u>		
Inorganic Compounds										
Chloride	368		16.0	mg/kg	4	7082104	AC	21-Aug-17	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-	148	7081901	MS	20-Aug-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctane			86.8 %	28.3	-164	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			89.9 %	34.7	-157	7081902	MS	20-Aug-17	8015B	

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			_	-2 20'						
			H7022	213-12 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	320		16.0	mg/kg	4	7082104	AC	21-Aug-17	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		104 %	72-148		7081901	MS	20-Aug-17	8021B		
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctane			81.8 %	28.3	-164	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			91.3 %	34.7	-157	7081902	MS	20-Aug-17	8015B	

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TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905									46
				S-3 0'						
			H7022	213-13 (So)))	-				
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	992		16.0	mg/kg	4	7082104	AC	21-Aug-17	4500-CI-B	
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		104 %	72-148		7081901	MS	20-Aug-17	8021B		
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctane			76.0 %	28.3	-164	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			80.4 %	34.7	-157	7081902	MS	20-Aug-17	8015B	

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TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 1Project Manager:DAVID ADKINSFax To:(575) 745-8905								Reported: 24-Aug-17 16:-	46
			-	5-4 0'						
			H /02.	213-14 (So)11)			n Can Alan De La Gaulia de Sala de La Gaulia de Caladaria de Cal		
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	32.0		16.0	mg/kg	4	7082104	AC	21-Aug-17	4500-Cl-B	
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	20-Aug-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)		104 %	72-148		7081901	MS	20-Aug-17	8021B		
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctane			85.0 %	28.3	-164	7081902	MS	20-Aug-17	8015B	
Surrogate: 1-Chlorooctadecane			86.9 %	34.7	-157	7081902	MS	20-Aug-17	8015B	

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TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:46Project Manager:DAVID ADKINSFax To:(575) 745-8905										
				8-5 0' 213-15 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	<16.0		16.0	mg/kg	4	7082104	AC	21-Aug-17	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			102 %	72-	148	7081901	MS	20-Aug-17	8021B		
Petroleum Hydrocarbons by GC	FID										
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
Surrogate: 1-Chlorooctane			77.2 %	-164	7081902	MS	20-Aug-17	8015B			
Surrogate: 1-Chlorooctadecane			81.5 %	34.7	-157	7081902	MS	20-Aug-17	8015B		

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Celeg & Kene



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project:RIO BLANCOReported:Project Number:700794.234.0124-Aug-17 16:Project Manager:DAVID ADKINSFax To:(575) 745-8905										
				S-6 0'							
			H7022	213-16 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	l Laborat	ories						
Inorganic Compounds											
Chloride	<16.0		16.0	mg/kg	4	7082104	AC	21-Aug-17	4500-Cl-B		
Volatile Organic Compounds by	EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7081901	MS	20-Aug-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			103 %	72-	148	7081901	MS	20-Aug-17	8021B		
Petroleum Hydrocarbons by GC	C FID									and and the state of	
GRO C6-C10	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
DRO >C10-C28	<10.0		10.0	mg/kg	1	7081902	MS	20-Aug-17	8015B		
Surrogate: 1-Chlorooctane			83.2 % 28.3-164			7081902	MS	20-Aug-17	8015B		
Surrogate: 1-Chlorooctadecane			86.0 %	34.7	-157	7081902	MS	20-Aug-17	8015B		

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Celey D. Keine



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210	Project: RIO BLANCO Project Number: 700794.234.01 Project Manager: DAVID ADKINS	Reported: 24-Aug-17 16:46
ARTESTA NEL 00210	Fax To: (575) 745-8905	

Inorganic Compounds - Quality Control

Cardinal Laboratories

Reporting Analyte Spike Result Source Limit %REC RPD Limit RPD Limit Batch 7082103 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17 Itimit RPD Limit Blank (7082103-BLK1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 Chloride MD 16.0 mg/kg 400 104 80-120 LCS (7082103-BSD1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 Output Output <thoutput< th=""></thoutput<>											
Markyte Read Drike Drike <t< th=""><th></th><th></th><th>Reporting</th><th></th><th>Spike</th><th>Source</th><th></th><th>%REC</th><th></th><th>RPD</th><th></th></t<>			Reporting		Spike	Source		%REC		RPD	
Blank (7082103-BLK1) Prepared & Analyzed: 21-Aug-17 Chloride ND 16.0 mg/kg LCS (7082103-BS1) Prepared & Analyzed: 21-Aug-17 Chloride 416 16.0 mg/kg 400 104 80-120 LCS Dup (7082103-BSD1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 Output 80-120 0.00 20 Batch 7082104 - 1:4 DI Water 416 16.0 mg/kg 400 104 80-120 0.00 20 Batch 7082104 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17 20 0.00 20 0.00 20 Batch 7082104 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17 20 0.00 20 0.00 20 0.00 20 20 20	Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Data (rootroe binn) ND 16.0 mg/kg LCS (7082103-BS1) Prepared & Analyzed: 21-Aug-17 Chloride 416 16.0 mg/kg 400 104 80-120 LCS Dup (7082103-BSD1) Prepared & Analyzed: 21-Aug-17 0.00 20 Batch 7082104 - 1:4 DI Water 416 16.0 mg/kg 400 104 80-120 0.00 20 Batch 7082104 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17	Batch 7082103 - 1:4 DI Water						1429-000-110-00-00-00-00-00-00-00-00-00-00-0				
LCS (7082103-BS1) Prepared & Analyzed: 21-Aug-17 Chloride 416 16.0 mg/kg 400 104 80-120 LCS Dup (7082103-BSD1) Prepared & Analyzed: 21-Aug-17 Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20 Batch 7082104 - 1:4 DI Water 416 16.0 mg/kg 400 104 80-120 0.00 20 Blank (7082104 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17 V <td< td=""><td>Blank (7082103-BLK1)</td><td></td><td></td><td></td><td>Prepared &</td><td>z Analyzed:</td><td>21-Aug-17</td><td></td><td></td><td></td><td></td></td<>	Blank (7082103-BLK1)				Prepared &	z Analyzed:	21-Aug-17				
Chloride 416 16.0 mg/kg 400 104 80-120 LCS Dup (7082103-BSD1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 0.00 20 Batch 7082104 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 V V Blank (7082104-BLK1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 V V Chloride ND 16.0 mg/kg 400 112 80-120 S0-120 LCS (7082104-BSD1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 V V V LCS (7082104-BSD1) Prepared & Analyzed: 21-Aug-17 V <thv< th=""> V <thv< th=""> <thv< td="" th<=""><td>Chloride</td><td>ND</td><td>16.0</td><td>mg/kg</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></thv<></thv<></thv<>	Chloride	ND	16.0	mg/kg							
LCS Dup (7082103-BSD1) Prepared & Analyzed: 21-Aug-17 Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20 Batch 7082104 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17 Chloride ND 16.0 mg/kg LCS (7082104-BLK1) Prepared & Analyzed: 21-Aug-17 Chloride ND 16.0 mg/kg LCS (7082104-BSS1) Prepared & Analyzed: 21-Aug-17 Chloride 448 16.0 mg/kg LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17	LCS (7082103-BS1)				Prepared &	z Analyzed:	21-Aug-17				
Chloride 416 16.0 mg/kg 400 104 80-120 0.00 20 Batch 7082104 - 1:4 DI Water Prepared & Analyzed: 21-Aug-17 Blank (7082104-BLK1) Prepared & Analyzed: 21-Aug-17 Chloride ND 16.0 mg/kg Prepared & Analyzed: 21-Aug-17 Chloride ND 16.0 mg/kg 400 112 80-120 LCS (7082104-BS1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 Chloride 448 16.0 mg/kg 400 112 80-120 LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17	Chloride	416	16.0	mg/kg	400		104	80-120			
Batch 7082104 - 1:4 DI Water Blank (7082104-BLK1) Prepared & Analyzed: 21-Aug-17 Chloride ND 16.0 mg/kg LCS (7082104-BS1) Prepared & Analyzed: 21-Aug-17 Chloride 448 16.0 mg/kg LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17	LCS Dup (7082103-BSD1)				Prepared &	k Analyzed:	21-Aug-17				
Blank (7082104-BLK1) Prepared & Analyzed: 21-Aug-17 Chloride ND 16.0 mg/kg LCS (7082104-BS1) Prepared & Analyzed: 21-Aug-17 Chloride 448 16.0 mg/kg 400 112 80-120 LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17 Prepared & Analyzed: 21-Aug-17	Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	
ND 16.0 mg/kg LCS (7082104-BS1) Prepared & Analyzed: 21-Aug-17 Chloride 448 16.0 mg/kg 400 112 80-120 LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17	Batch 7082104 - 1:4 DI Water	and a second									
LCS (7082104-BS1) Prepared & Analyzed: 21-Aug-17 Chloride 448 16.0 mg/kg 400 112 80-120 LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17	Blank (7082104-BLK1)				Prepared &	k Analyzed:	21-Aug-17				
LCS Dup (7082104-BSD1) 448 16.0 mg/kg 400 112 80-120 LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17	Chloride	ND	16.0	mg/kg							
LCS Dup (7082104-BSD1) Prepared & Analyzed: 21-Aug-17	LCS (7082104-BS1)				Prepared &	2 Analyzed:	21-Aug-17				
	Chloride	448	16.0	mg/kg	400		112	80-120			
Chloride 448 160 mg/kg 400 112 80-120 0.00 20	LCS Dup (7082104-BSD1)				Prepared &	& Analyzed:	21-Aug-17				
	Chloride	448	16.0	mg/kg	400		112	80-120	0.00	20	

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Celeg & Keine



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210			Reported: 24-Aug-17 16:46							
	Volatile Organic (-	·	Method 8 oratories	-	ality Co	ntrol			
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7081901 - Volatiles										
Blank (7081901-BLK1)				Prepared &	z Analyzed:	19-Aug-1	7			
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	72-148			
LCS (7081901-BS1)				Prepared &	Analyzed:	19-Aug-17	7			
Benzene	1.96	0.050	mg/kg	2.00		98.0	79.5-124			
Toluene	2.01	0.050	mg/kg	2.00		101	75.5-127			
Ethylbenzene	2.18	0.050	mg/kg	2.00		109	77.7-125			
Total Xylenes	6.46	0.150	mg/kg	6.00		108	70.9 - 124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0541		mg/kg	0.0500		108	72-148			
LCS Dup (7081901-BSD1)				Prepared &	z Analyzed:	19-Aug-1'	7			
Benzene	2.00	0.050	mg/kg	2.00		99.9	79.5 - 124	1.93	6.5	
Toluene	2.06	0.050	mg/kg	2.00		103	75.5-127	2.25	7.02	
Ethylbenzene	2.23	0.050	mg/kg	2.00		111	77.7-125	2.12	7.83	
Total Xylenes	6.60	0.150	mg/kg	6.00		110	70.9 - 124	2.05	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0536		mg/kg	0.0500		107	72-148			
			00							

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TALON LPE	Project: RIO BLANCO	Reported:
408 W. TEXAS AVE.	Project Number: 700794.234.01	24-Aug-17 16:46
ARTESIA NM, 88210	Project Manager: DAVID ADKINS	
	Fax To: (575) 745-8905	

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Carun								
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7081902 - General Prep - Organics										
Blank (7081902-BLK1)				Prepared &	Analyzed:	19-Aug-17	7			
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C35	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	45.0		mg/kg	50.0		89.9	28.3-164			
Surrogate: 1-Chlorooctadecane	46.4		mg/kg	50.0		92.9	34.7-157			
LCS (7081902-BS1)				Prepared &	Analyzed:	19-Aug-17	7			
GRO C6-C10	181	10.0	mg/kg	200		90.4	76.6-119			
DRO >C10-C28	184	10.0	mg/kg	200		91.9	81.4-124			
Total TPH C6-C28	365	10.0	mg/kg	400		91.2	79.4-121			
Surrogate: 1-Chlorooctane	45.9		mg/kg	50.0		91.7	28.3-164			
Surrogate: 1-Chlorooctadecane	49.9		mg/kg	50.0		99.9	34.7-157			
LCS Dup (7081902-BSD1)				Prepared &	Analyzed:	19-Aug-17	7			
GRO C6-C10	193	10.0	mg/kg	200		96.6	76.6-119	6.61	7.94	
DRO >C10-C28	199	10.0	mg/kg	200		99.6	81.4-124	7.97	9.83	
Total TPH C6-C28	392	10.0	mg/kg	400		98.1	79.4-121	7.30	8.57	
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.3	28.3-164			
Surrogate: 1-Chlorooctadecane	52.0		mg/kg	50.0		104	34.7-157			

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Celez theme



TALON LPE 408 W. TEXAS AVE. ARTESIA NM, 88210		Project N Project Ma		Reported: 24-Aug-17 16:46						
		(DI Water Green Ana		· -	5	rol				
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B708206 - General Prep - Wet Chem										
Blank (B708206-BLK1)				Prepared: 2	22-Aug-17	Analyzed: 2	23-Aug-17			
Chloride	ND	10.0	mg/kg wet		<u> </u>					
LCS (B708206-BS1)				Prepared: 2	22-Aug-17	Analyzed: 2	23-Aug-17			
Chloride	237	10.0	mg/kg wet	250		94.9	85-115			
LCS Dup (B708206-BSD1)				Prepared: 2	22-Aug-17 A	Analyzed: 2	23-Aug-17			
Chloride	240	10.0	mg/kg wet	250		95.8	85-115	0.956	20	

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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 SM4500CI-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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	Sampler - UPS -		Relinguished By:	M	Relinguished By:	analyses. All slaims including those for negligence and any saving. In no event shall Cardinal be liable for incidental or	PLEASE NOTE: LIADINY and I	5-	A	4		2	G	L	()	N		1. 100. 2	Lab LD.	FOR LAB USE ONLY	Sampler Name:	Project Location:	im	Project 祭 706	o 渋	ciw: Artesia	Address; 408 V	Project Manager:	Company Name:	a b		
1 200 100 1108	Currene ones U. C.		A, VO Date:	Time: nc	or or reaces in the performance of services	hose for negligence and any other cause whatseever shall be deemed walved un ing as fiable for holdenial or consequential dampages, included under thinkaider for a second	Damages. Caminat's inibility and elient's exclusive remedy for	1 1 1		+ 2_	2	1	21 15	B-1 (4'	R-I S	8-1 4	8-1.3		Sample I.D.		C S	Lea county Not	-10 Bland	706794. \$254.01 Project Owner:	575-746-8768 Pax #: 575-	state: NM	W. Texas Ave.	DAUS ADRIUS	Talon/LPE	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		ADD ZA
: [Cool Intact (Initials)	CHECKED BY:	Received By:	A July wanter	Raceived By:	those for heginerics and may other cause whotsoever shall be deemed walved unless made in willing and racked by Occilial within 30 days after competion over septements of the other deemed walved in the second	any claim arising whether based in contrast or fort, shall be limited to the s										G		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL. OIL, SLUDGE OTHER : ACID/BASE: ICE / COOL, OTHER :	MATRIX PRESERV.	Fax #:	vA Phone 歩:	ted#1 State: Zip;	T DEVON PROUTY CITY	575-746-8905 Address:	ZIP: 88210 Attn: David A	Company: TalON/	P.D. # 700 / 7	11111		D V	
		A C	Q V			days anter romplekion ottre applezie urred by ellenk, ka eutedidaios, zabiet reasons e eutedidaios,	nount gaid by the client for the	1450	0001	1435	- 1430	1615	1600	1550	1540	15 35	21110 V V V	1 1001	BTEY TPH TOTA . Chilor	-1		c /2	(u			Adres		7.01			CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	
		<u>`</u>			Add'l Phone #: Add'l Fax #:																									VOIS REOLIEST	D ANALYSIS REQUEST	

Cardinal cannot accept verbal changes. Please Tax written changes to (573) 393-2326

Page 24 of 25

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Page 25 of 25

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



August 31, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RIO BLANCO 33 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 08/30/17 16:47.

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 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 (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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/30/2017	Sampling Date:	08/28/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO 33 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.243.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: W. SIDE WALL 1.0' (H702317-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/31/2017	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2017	ND	169	84.3	200	3.20	
DRO >C10-C28	<10.0	10.0	08/31/2017	ND	175	87.6	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	08/31/2017	ND					
Surrogate: 1-Chlorooctane	92.5	% 28.3-16	<i>4</i>						
Surrogate: 1-Chlorooctadecane	94.5	% 34.7-15	7						

Sample ID: S. SIDE WALL 1.0' (H702317-02)

mg,	/kg	Analyze	d By: AC			19.11.1.10.01.1.1.1.1.1.1.1.1.1.1.1.1.1.		
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
320	16.0	08/31/2017	ND	448	112	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	08/31/2017	ND	169	84.3	200	3.20	
<10.0	10.0	08/31/2017	ND	175	87.6	200	5.40	
<10.0	10.0	08/31/2017	ND					
93.0	% 28.3-16	4						
103	% 34.7-15	7						
	Result 320 mg, Result <10.0 <10.0 <i>93.0</i>	320 16.0 mg/kg mg/kg Result Reporting Limit <10.0	Result Reporting Limit Analyzed 320 16.0 08/31/2017 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 320 16.0 08/31/2017 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed By: MS Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank BS 320 16.0 08/31/2017 ND 448 mg/kg Analyzed By: MS Method Blank BS Result Reporting Limit Analyzed By: MS BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 320 16.0 08/31/2017 ND 448 112 mg/kg Analyzed By: MS Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 320 16.0 08/31/2017 ND 448 112 400 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC Analyzed By: MS Method Blank BS % Recovery True Value QC Analyzed By: MS Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 320 16.0 08/31/2017 ND 448 112 400 0.00 mg/kg Analyzed By: MS Method Blank BS % Recovery True Value QC RPD Analyzed By: MS

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

Received:	08/30/2017	Sampling Date:	08/28/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO 33 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.243.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: E. SIDE WALL 1.0' (H702317-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC		n de maneur en company y a se met a constant de la segun y a que de parte de maneur de la company			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	08/31/2017	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2017	ND	169	84.3	200	3.20	
DRO >C10-C28	257	10.0	08/31/2017	ND	175	87.6	200	5.40	
EXT DRO >C28-C36	20.8	10.0	08/31/2017	ND					
Surrogate: 1-Chlorooctane	90.5	% 28.3-16	.4						
Surrogate: 1-Chlorooctadecane	104	% 34.7-15	7						

Sample ID: N. SIDE WALL 1.0' (H702317-04)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/31/2017	ND	448	112	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2017	ND	169	84.3	200	3.20	
DRO >C10-C28	11.4	10.0	08/31/2017	ND	175	87.6	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	08/31/2017	ND					
Surrogate: 1-Chlorooctane	91.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.7	% 34.7-15	7						

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Received:	08/30/2017	Sampling Date:	08/28/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO 33 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.243.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: N. BOTTOM EXCAV. 1.0' (H702317-05)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/31/2017	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2017	ND	169	84.3	200	3.20	
DRO >C10-C28	<10.0	10.0	08/31/2017	ND	175	87.6	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	08/31/2017	ND					
Surrogate: 1-Chlorooctane	94.9	% 28.3-16	54						
Surrogate: 1-Chlorooctadecane	103	% 34.7-15	7						

Sample ID: S. BOTTOM EXCAV. 2.0' (H702317-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2017	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/31/2017	ND	169	84.3	200	3.20	
DRO >C10-C28	<10.0	10.0	08/31/2017	ND	175	87.6	200	5.40	
EXT DRO >C28-C36	<10.0	10.0	08/31/2017	ND					
Surrogate: 1-Chlorooctane	93.7	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	99.4	% 34.7-15	7						

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Received:	08/30/2017	Sampling Date:	08/28/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO 33 FED 1	Sampling Condition:	Cool & Intact
Project Number:	700794.243.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: S-3 0.25' (H702317-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	08/31/2017	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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 7 of 7

A R D I N A L



August 31, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: RIO BLANCO 33 FED 1

Enclosed are the results of analyses for samples received by the laboratory on 08/28/17 16:20.

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 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 (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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	08/28/2017	Sampling Date:	08/17/2017
Reported:	08/31/2017	Sampling Type:	Soil
Project Name:	RIO BLANCO 33 FED 1	Sampling Condition:	** (See Notes)
Project Number:	700794.234.01	Sample Received By:	Tamara Oldaker
Project Location:	LEA COUNTY, NM		

Sample ID: B-2 25' (H702274-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/31/2017	ND	432	108	400	0.00	

Sample ID: B-2 30' (H702274-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/31/2017	ND	432	108	400	0.00	

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Notes and Definitions

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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40	Phone #:	Project Location: Lea Causty NM
	State: Zip:	Project Name: KW Blanco 33 fed # 1
٥	Grevy City:	4.01 Project Owner: DOVON
5	Address:	Phone #: 575-746-8768 Fax #: 575-746-8905
2	Attn: D.AD/21NS	City: Artesia state: NM Zip: 88210
	Company: Talon/LPE	Address: 408 W. Texas Ave.
	P.O. # 700794.234.0	Project Manager: DADKINS
ANALYSIS REQUEST		Company Name: Talon/LPE
		101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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APPENDIX IV

FINAL C-141