

AMARILLO 921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.748.8905

HOBBS 318 East Taylor Street Hobbs, New Mexico 88241 Phone 505.393.4261 Fax 505.393.4658

MIDLAND 2901 State Highway 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

OKLAHOMA CITY 7700 North Hudson Ave Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

> SAN ANTONIO 13111 Lookout Way San Antonio, TX 78233 Phone 210.265.8025 Fax 210.568.2191

INVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

January 7, 2014

Mr. Mike Bratcher

NMOCD District 2

1301 West Grand Avenue
Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan

RECEIVED

JAN 1 0 2014

NMOCD ARTESIA

KC Resources Inc Jones D Battery 30-015-00192

Dear Mr. Bratcher,

KC Resources Inc, also known as Crystal River Oil and Gas, has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Jones D Battery. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

Unknown

Background Information

The Jones D Battery is located approximately ten (10) miles southeast of Artesia, New Mexico. The legal location for the site is Section 13, Township 18 South and Range 26 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the release are 32.750622 North and -104.330041 West.

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Reeves loam with a 0 to 1 percent slope. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology, Paleozoic Age sedimentary deposits, is comprised of the Guadeloupian Artesia Group, Tansil and Yates formations which include silty soils under lain by weathered gypsum and hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S24-T18S-R26E. The ground water in the area is reported to be 18' below ground surface (bgs). The referenced groundwater data is presented in Appendix I.

The ranking for this site is 20 based on the as following:

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

Incident Description

On August 29, 2013 a field inspection by Mike Bratcher of the NMOCD discovered a trench from the water tank to an open excavation. A release of produced fluids was observed.

Actions Taken

On October 30, 2013 Talon/LPE mobilized personnel to the site to carry out soil sampling activities for the construction of a work plan. Grab soil samples were collected utilizing a hand auger. Grab samples were collected to a depth of 2-foot below land surface. A site map is attached.

On December 18, 2013 Talon/LPE mobilized personnel again to the site for additional sampling using a backhoe to obtain deeper samples for vertical delineation purposes.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for volatile organics (BTEX) per EPA Method 8021B, Total Petroleum Hydrocarbons (TPH) per EPA Method 8015M, and total chlorides via Method SM 4500Cl-B. The complete laboratory report is attached as Appendix II.

Analytical Results

Analytical results received from Cardinal Laboratories are summarized below:

November 6, 2013

Sample	<u>Depth</u>	BTEX	Chlorides	TPH (mg/kg)
S-1	0' 2'	<0.300 <0.300	2520 2600	<10 <10
S-2	1'	< 0.300	4960	276
S-3	0' 2'	<0.300 <0.300	7600 6640	<10 154
S-4	1'	< 0.300	2080	<10

December 27, 2013

Sample	<u>Depth</u>	BTEX	Chlorides	TPH (mg/kg)
BG .	0' 2'		96 48	
S-1	2' 4' 6'	<0.300 <0.300 <0.300	3440 1470 208	<10 <10 <10
S-2	2' 4' 6' 8'	 	1360 192 96 176	

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 100 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

Proposed Remedial Actions

- The impacted area at sample location S-1 will be excavated to a depth of 4.5-feet deep and confirmation samples on the sidewalls will be taken.
- The area in the trench (S-2) will be excavated to a depth of 2.5-foot and confirmation sample for TPH will be taken.
- At soil sample location S-3, the impacted area will be excavated to a depth of 3-feet deep. Soil samples will be collected and field tested to determine if remaining soil can be left in place.
- Upon approval by the NMOCD of the confirmation samples at S-3, the excavated areas will be backfilled using new material from a local borrow pit. The area will be contoured to match the surrounding location.
- The excavated soil will be transported to a NMOCD approved solid waste disposal facility.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office, including Form C-141 and to the client.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

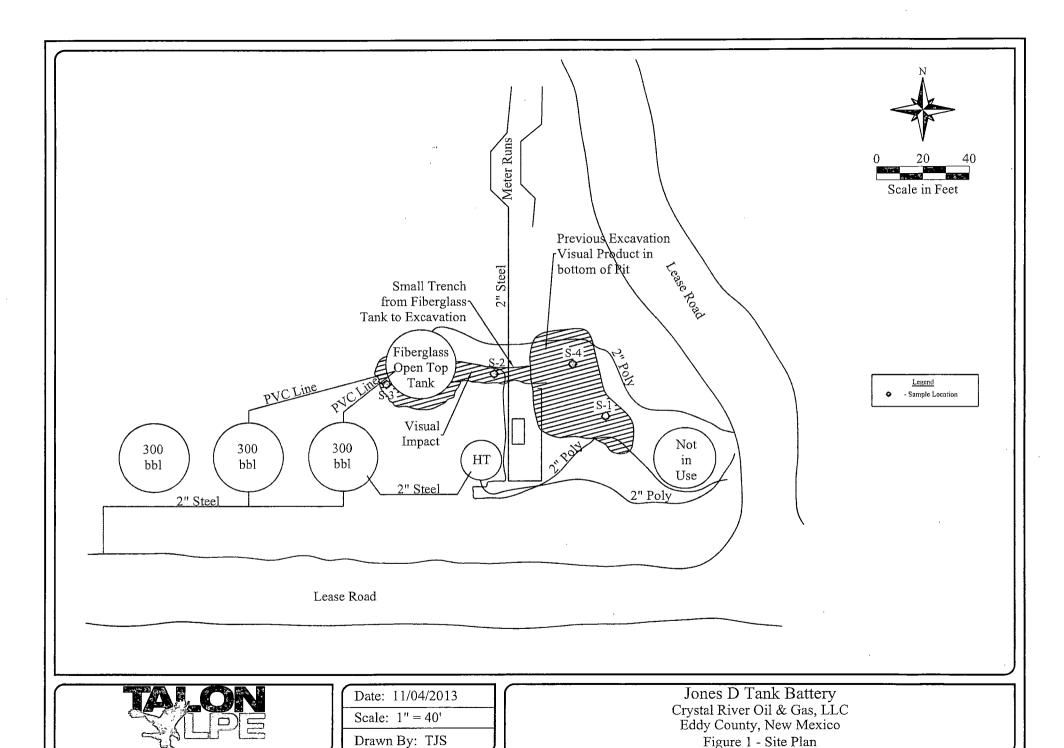
Imberly M. Wilson
Kimberly M. Wilson

Project Manager

David J. Adkins

District Manager

SITE MAP



APPENDIX I GROUNDWATER DATA



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)

	,	•							0 , (,			
		POD						* * *	, F	(p. a plantamina del ristarro digir que a tallono desa vesa é tentres pel aque no sono meno delsam		4		
		Sub=	Q	Q	Q							Depth	Depth	Water
POD Number	Code t	asin County	64	16	4,	Sec	Tws	Ring	X	Y	Distance	Well	Water	Column
RA 03409 REPAR		ED	2	4	2	24	18S	26E	562963	3622210* 🕟	1014	175	18	157
RA 03409		ED	1	4	2	24	18S	26E	562763	3622210* 🕞	1033	175	18	157
RA 02132 B		ED	1	2	1	24	18S	2 <u>6</u> E	561958	3622611* 🚱	1176	166		
RA 04298		ED		1	2	19	18S	27E	564082	3622523* 🕥	1321	92		
RA 03900		ED	1	3	1	24	18S	26E	561557	3622206* 🕞	1735	845	90	755
RA 01343 CLW	0	СН	1	2	4	14	185	26E	561157	3623417* 💽	1815	150	23	127
RA 03750		ED		3	4	24	18S	26E	562465	3621299* 😜	1988	110	35	75

Average Depth to Water:

36 feet

Minimum Depth:

18 feet

Maximum Depth:

90 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 562962

Northing (Y): 3623224

Radius: 2000

APPENDIX II LABORATORY RESULTS



November 06, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: JONES D FEDERAL NO. 1

Enclosed are the results of analyses for samples received by the laboratory on 10/31/13 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited through Texas NELAP under certificate number T104704398-11-3. 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 accredited analytes are denoted by a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes are denoted by a complete list of accredited analytes are denoted by the solution of the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the comp

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.

Celey D. Keene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received:

10/31/2013

11/06/2013

Sampling Date:

10/30/2013

Reported:

Sampling Type:

Soil

Project Name:

JONES D FEDERAL NO. 1

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701723.001 H-13-18-26 Sample Received By:

Celey D. Keene

Sample ID: S-1 0' (H302651-01)

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	11/04/2013	ND	1.90	94.9	2.00	2.12	
Toluene*	<0.050	0.050	11/04/2013	ND	1.89	94.7	2.00	2.22	
Ethylbenzene*	<0.050	0.050	11/04/2013	ND	1.90	95.2	2.00	2.41	
Total Xylenes*	<0.150	0.150	11/04/2013	ND	5.57	92.9	6.00	2.39	
Total BTEX	<0.300	0.300	11/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	6 89.4-12	6	ı					
Chloride, SM4500CI-B	mg/	kg	Analyze	nalyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2520	16.0	10/31/2013	ND	416	104	400	3.92	
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	11/01/2013	ND	185	92.5	200	0.526	
DRO >C10-C28	<10.0	10.0	11/01/2013	ND	174	87.0	200	2.20	
Surrogate: 1-Chlorooctane	86.9 %	65.2-14	0			-			
Surrogate: 1-Chlorooctadecane	92.9 9	63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keine



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

Received:

10/31/2013

Reported: 11/06/2013

Project Name:

JONES D FEDERAL NO. 1

Project Number:

701723.001

Project Location:

H-13-18-26

Sampling Date:

10/30/2013

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Soil

Celey D. Keene

Sample ID: S-1 2' (H302651-02)

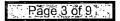
BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/04/2013	ND	1.90	94.9	2.00	2.12	
Toluene*	<0.050	0.050	11/04/2013	ND	1.89	94.7	2.00	2.22	
Ethylbenzene*	<0.050	0.050	11/04/2013	ND	1.90	95.2	2.00	2.41	
Total Xylenes*	<0.150	0.150	11/04/2013	ND	5.57	92.9	6.00	2.39	
Total BTEX	<0.300	0.300	11/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP			· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	10/31/2013	ND	416	104	400	3.92	
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	11/01/2013	ND	185	92.5	200	0.526	
DRO >C10-C28	<10.0	10.0	11/01/2013	ND	174	87.0	200	2.20	
Surrogate: 1-Chlorooctane	91.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.4	% 63.6-15	4						

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Celey D. Keine





TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/31/2013

11/06/2013

Sampling Date:

10/30/2013

Reported:

Sampling Type:

Soil

Project Name:

JONES D FEDERAL NO. 1

Sampling Condition:

Cool & Intact

Project Number: Project Location:

701723.001 H-13-18-26

Sample Received By:

Celey D. Keene

Sample ID: S-2 1' (H302651-03)

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	11/04/2013	ND	1.90	94.9	2.00	2.12	
Toluene*	<0.050	0.050	11/04/2013	ND	1.89	94.7	2.00	2.22	
Ethylbenzene*	<0.050	0.050	11/04/2013	ND	1.90	95.2	2.00	2.41	
Total Xylenes*	<0.150	0.150	11/04/2013	ND	5.57	92.9	6.00	2.39	
Total BTEX	<0.300	0.300	11/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4960	16.0	10/31/2013	ND	416	104	400	3.92	
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	11/01/2013	ND	185	92.5	200	0.526	
DRO >C10-C28	276	10.0	11/01/2013	ND	174	87.0	200	2.20	
Surrogate: 1-Chlorooctane	85.8	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	94.7	% 63.6-15	4						

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Fax To:

(575) 745-8905

Received:

10/31/2013

Reported:

11/06/2013

Project Name:

JONES D FEDERAL NO. 1

Project Number:

701723.001

Project Location:

H-13-18-26

Sampling Date:

10/30/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Celey D. Keene

Sample ID: S-3 0' (H302651-04)

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	11/04/2013	ND	1.90	94.9	2.00	2.12	
Toluene*	<0.050	0.050	11/04/2013	ND	1.89	94.7	2.00	2.22	
Ethylbenzene*	<0.050	0.050	11/04/2013	ND	1.90	95.2	2.00	2.41	
Total Xylenes*	< 0.150	0.150	11/04/2013	ND	5.57	92.9	6.00	2.39	
Total BTEX	<0.300	0.300	11/04/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 89.4-12	6						_
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	10/31/2013	ND	416	104	400	3.92	
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	11/01/2013	ND	185	92.5	200	0.526	
DRO >C10-C28	<10.0	10.0	11/01/2013	ND	174	87.0	200	2.20	
Surrogate: 1-Chlorooctane	91.6	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.5	% 63.6-15	4						

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Celey D. Keine



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

Fax To:

Received:

10/31/2013

Reported: Project Name: 11/06/2013

Project Number:

JONES D FEDERAL NO. 1

701723.001

Project Location:

H-13-18-26

Sampling Date:

10/30/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: S-3 2' (H302651-05)

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	11/05/2013	ND	1.90	94.9	2.00	2.12	
Toluene*	<0.050	0.050	11/05/2013	ND	1.89	94.7	2.00	2.22	
Ethylbenzene*	<0.050	0.050	11/05/2013	ND	1.90	95.2	2.00	2.41	
Total Xylenes*	<0.150	0.150	11/05/2013	ND	5.57	92.9	6.00	2.39	
Total BTEX	<0.300	0.300	11/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 %	6 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
- Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6640	16.0	10/31/2013	ND	416	104	400	3.92	
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	11/01/2013	ND	185	92.5	200	0.526	
DRO >C10-C28	154	10.0	11/01/2013	ND	174	87.0	200	2.20	
Surrogate: 1-Chlorooctane	82.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	98.4	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Kune





TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

10/31/2013

Sampling Date:

10/30/2013

Reported:

11/06/2013

Sampling Type:

Soil

Project Name:

JONES D FEDERAL NO. 1

Sampling Condition:

Cool & Intact

Project Number:

701723.001

Sample Received By:

Celey D. Keene

Project Location:

H-13-18-26

Sample ID: S-4 1' (H302651-06)

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	11/05/2013	ND	1.90	94.9	2.00	2.12	
Toluene*	<0.050	0.050	11/05/2013	ND	1.89	94.7	2.00	2.22	•
Ethylbenzene*	<0.050	0.050	11/05/2013	ND	1.90	95.2	2.00	2.41	
Total Xylenes*	<0.150	0.150	11/05/2013	ND	5.57	92.9	6.00	2.39	
Total BTEX	<0.300	0.300	11/05/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	10/31/2013	ND	416	104	400	3.92	
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	11/01/2013	ND	185	92.5	200	0.526	
DRO >C10-C28	<10.0	10.0	11/01/2013	ND	174	87.0	200	2.20	
Surrogate: 1-Chlorooctane	91.7	% 65.2-14	0	,					
Surrogate: 1-Chlorooctadecane	99.0	% 63.6-15	4						

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*=Accredited Analyte

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Celeg D. Keena





Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Lalon / LPE	ANALYSIS REQUEST
Project Manager: Aguid Malkins	P.O.#:
Address: 408 W. Zeras	Company: Jalon
City: Arteria State: NMZip: 88218	Attn:
Phone #: 575-746-8768 Fax #: 575-746-8905	
Project #: 70/723.00/ Project Owner: Crystal Riv	e City:
Project Name: Jones & #1 Battery	State: Zip:
Project Location: 4-13-18-26	Phone #:
Sampler Name: Robbie De Rosler	Fax #:
FOR LAB USE ONLY MATRIX	PRESERV SAMPLING
(C)OMP	
Lab I.D. Sample I.D.	
Lab i.b.	
#CONTAINERS GROUNDWATER WASTEWATER SOIL.	SLUDGE OTHER: AGIDIBASE GELCOOL OTHER:
01 5-1 0	1 10/30/12 10:48
25-12' 6 1	1 1 12:55 1 1 1
33-2 /	1 1 1:05 1 1 1
of S-3 0' 6 1	
8 S-3 2' G /	1:28
003-41	1:35 / /
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in co	itract or fort, shall be limited to the amount paid by the client for the
sarvice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interrupt affiliates or successors adaing out of or related to the performance of services hereunder by Cardinal, regardless of whether such	ons, loas of use, or loss of profits incurred by client, its subsidiaries,
Relinquished By: Date: Received By:	Phone Result: ☐ Yes ☐ No Add'l Phone #: Fax Result: ☐ Yes ☐ No Add'l Fax #:
Time: And M	REMARKS:
Relinquished By: Date: 3 13 Received By:	1 preo-
Time:	110040
Delivered By: (Circle One)	idition CHECKED BY:
Cool Inta	(Indials)
Sampler - UPS - Bus - Other: 5.2 Yes V	No OU

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

#34



December 27, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: JONES D TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/19/13 10:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited through Texas NELAP under certificate number T104704398-13-5. 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 analytes are denoted by a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accredited analytes are denoted by a complete list of accredited analytes are denoted by the solution of the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the complete list of accredited analytes are denoted by the comp

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.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

Chloride, SM4500CI-B

12/19/2013

Reported:

12/27/2013

Project Name:

JONES D TANK BATTERY

Project Number:

NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

12/18/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: BG- O' (H303080-01)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/26/2013	ND	416	104	400	0.00	
Sample ID: BG- 2' (H303080-0	2)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	12/26/2013	ND	416	104	400	0.00	
Sample ID: S-1 2' (H303080-0	3)								
BTEX 8021B	mg,	g/kg Analyzed By: MS				<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150	0.150	12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK			·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	12/26/2013	ND	416	104	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

Analyzed By: CK

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Celey D. Keine



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

Fax

12/19/2013

Reported: 12/27/2013

Project Name: JONES D TANK BATTERY

Project Number: NONE GIVEN

Project Location: NOT GIVEN

Sampling Date:

12/18/2013

Sampling Type:

Sampling Condition:

Cool & Intact

Soil

Sample Received By:

Jodi Henson

Sample ID: S-1 2' (H303080-03)

Received:

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	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	<10.0	10.0	12/24/2013	ND	201	101	200	16.4	
Surrogate: 1-Chlorooctane	94.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	89.4	% 63.6-15	4						

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Celey & Keene

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TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/19/2013

Reported:

12/27/2013

Project Name:

JONES D TANK BATTERY

Project Number: Project Location:

NONE GIVEN

Sampling Date:

12/18/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-1 4' (H303080-04)

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	12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150 0.150		12/27/2013	ND	4.88	81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.6	89.4-12	6					-	
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1470 16.0		12/26/2013	ND	416	104	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	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	<10.0	10.0	12/24/2013	ND	201	101	200	16.4	
Surrogate: 1-Chlorooctane	89.1	% 65.2-14	0		-		<u> </u>		
Surrogate: 1-Chlorooctadecane	81.5	% 63.6-15	4						

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Celey D. Keine



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

Received:

12/19/2013

Reported:

12/27/2013

Project Name:

JONES D TANK BATTERY

Project Number: Project Location: NONE GIVEN

,, m.

NOT GIVEN

Sampling Date:

12/18/2013

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

:

Jodi Henson

Sample ID: S-1 6' (H303080-05)

BTEX 8021B	mg/	kg	Analyze	d By: MS	BS			·	*****
Analyte	Result	Reporting Limit	Analyzed	Method Blank		% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050 0.050		12/27/2013	ND	1.73	86.4	2.00	1.95	
Toluene*	<0.050	0.050	12/27/2013	ND	1.70	85.1	2.00	2.58	
Ethylbenzene*	<0.050	0.050	12/27/2013	ND	1.66	82.8	2.00	2.91	
Total Xylenes*	<0.150 0.150		12/27/2013	2/27/2013 ND		81.3	6.00	2.20	
Total BTEX	<0.300	0.300	12/27/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CK					
Analyte	Result Reporting Limit		Analyzed	Analyzed Method Blank		% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	12/26/2013	ND	416	104	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	12/24/2013	ND	194	97.2	200	14.5	
DRO >C10-C28	<10.0	10.0	12/24/2013	ND	201	101	200	16.4	
Surrogate: 1-Chlorooctane	92.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	87.3	% 63.6-15	4						

Sample ID: S-2 2' (H303080-06)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	12/26/2013	ND	416	104	400	0.00	

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Celey D. Kune



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

Received:

Chloride, SM4500Cl-B

12/19/2013

Reported:

12/27/2013

Project Name:

JONES D TANK BATTERY

Project Number:

NONE GIVEN

mg/kg

Project Location:

NOT GIVEN

Sampling Date:

12/18/2013

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 4' (H303080-07)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/26/2013	ND	416	104	400	0.00	
Sample ID: S-2 6' (H303	080-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/26/2013	ND	432	108	400	3.77	
Sample ID: S-2 8' (H303	080-09)						•		
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: CK			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/26/2013	ND	432	108	400	3.77	

Analyzed By: CK

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



CHAIN-OF-GUSTODY AND ANALYSIS REQUEST

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

Company Name: , 12 / 25/16/16					BILL TO ANALYSIS REQUEST																		
Project Manage	r:					_	P.O. #:											F				J.:.	
Address: 40	8 W. Jeras						Company Jalan									ŀ	1						
City: Prite	state: N/M 5-746-8768 Fax#: 575	Zip	:8	8210	>		Attn:								1.				}		. !		
Phone #: 574	5-746-8768 Fax #: 575	-2	46	-890	05		Address:					ļ								ļ			
Project #: Project Owner:						City:] ^										•		
Project Name: Veges O Tank Better						State: Zip:					,	1	1.		1	· ·					. 1	, 1	
Project Location:						Phor	ne #:			· .	1	3				1				ľ		.	
Sampler Name: G. Rarza						Fax #					· ,	Ĭ,		1	1	'						. !	
FOR LAB USE ONLY		٠.		. N	MATRI	X T T	- P	RESE	RV.	SAMPL	ING	~	7		1								
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PLEASE NOTE: Liability as	nd Damages. Cardinars liability and client's exclusive remedy for	any citin	nleha p	g whether b	esed in c	ontract o	or tort, st	nell be lin	nited to	the amount pa	id by the client fo	Lipo	ــــــــــــــــــــــــــــــــــــــ		٠	ـــنك	<u> </u>	L	Ļ—	<u> </u>	L	ļl	لـــــا
service. In no event shall C	ng those for negligence and any other cause whatscever shall be ardinal be liable for incidental or consequental damages, includir	g wilhou	t limilati	ion, businas	a Interruj	otions, lo	es of us	e, or loss	of pro	fits incurred by	client, ita subsidi	aries,	able .		•	• •				, .			
Relinquished By	Ing out of a related to the performance of services hereunder by y: Date:	Pa		ed By:	her such	claim is	based t	mon any	of the	above stated te	Phone Re	sult:	O Y		l No	Add'i	Phone	#:					<u></u>
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Belinquiè her By: Date: Received By:						9	v	rus	u								•	. :			•		
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	Time:	⊥.												•	-								
	: (Circle One)			Cont	ole Co	nditlo	n	CHE	CKI	ED BY:	1							• • •					
Sampler - UPS	- Bus - Other:	5,4	19	Cool	res 📴	Yes		· '	IA	7 .													••

