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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 430 West Wilshire, Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

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

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING **REVIEWED** By Kellie Jones at 7:28 am, Dec 09, 2015

November 20, 2015

Ms. Kellie Jones NMOCD District I 1625 N. French Dr. Hobbs, NM 88240

Subject:

APPROVED

By Kellie Jones at 7:28 am, Dec 09, 2015

Remedial Activities and Closure Report Legacy Reserves Operating, LP Rock Queen Unit #86 API #: 30-005-00931 (1RP-3900)

Dear Ms. Jones,

Legacy Reserves (Legacy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our remediation activities and closure request are submitted herein.

Incident Date

August 28, 2015

Background Information

The Rock Queen Unit No. 86 is located approximately forty-seven (47) miles northwest of Lovington in Chaves County, New Mexico. The legal location for this site is Section 36, Township 13 South, and Range 31 East. More specifically the latitude and longitude for the release are 33.1485596 North and -103.7815247 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of the Kimbrough gravelly loam with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is comprised of Holocene to middle Pleistocene eolian deposits. Drainage courses in this area are normally dry. The New Mexico State Engineer's web site indicates the nearest ground water data to be in S35-T13S-R31E. The ground water in Section 35 is reported to be a depth of 165-feet below ground surface (bgs). See Appendix II for the referenced groundwater data.

The ranking for this site is 0 based on the following:

3	Depth to ground water	>100'
3	Wellhead Protection Area	>1000'
N	Distance to surface water body	>1000'
Г	Distance to surrow y	

Incident Description

On August 28, 2015 a flow line leak was discovered. The amount of the mixed fluids released was approximately 20 barrels. All wells were shut in and the flow line was repaired. A vacuum truck was called to the location and recovered approximately 5 barrels of fluid. The impacted area is off the well pad and measured approximately 170-feet long by 100-feet wide. A site plan is presented in Appendix I.

Initial Actions Taken

On September 8, 2015 Talon mobilized personnel to begin site assessment and soil sampling activities for the generation of a work plan. Grab soil samples were collected utilizing a hand auger to a depth of 1.5-feet below ground surface where refusal was encountered. A summary laboratory results are presented in Table 1.

On September 16, 2015 Talon personnel returned to the site to obtain deeper vertical delineation samples utilizing a backhoe to a depth of 11-feet bgs where hard rock refusal was encountered. A summary of laboratory results are presented in Table 2.

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 TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and the chloride samples were analyzed per Method SM4500Cl-B.

Laboratory Results

See Appendix V for complete report of laboratory results.

September 4, 201	5			Т	Table 1
Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	0.431	22800	<200	20100
S-1	1'	< 0.300	12200	<10	<10
S-1 Refusal	1.5'	< 0.300	13800	<50	976
S-2	0'	< 0.300	13800	<10	11.5
S-2	1'	< 0.300	432	<10	<10
S-2 Refusal	1.5'	< 0.300	128	<10	<10
S-3	0'	< 0.300	23600	<200	16800
S-3	1'	< 0.300	13200	<10	35.6
S-3 Refusal	1.5'	< 0.300	13600	<10	<10

September 24, 20 Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	Table 2 TPH (mg/kg) DRO
S-1	2'		11600		
S-1	3'		4800		
S-1	4'		3760	elektrone <u>n</u> terretek	andre <u>n</u> iske
S-1	6'		7200		
S-1	7'		800		
S-1	8'		528	pag and	14 14
S-1	9'		400	1999 - 199 <u>1 -</u> 1993 - 199	
S-1	10'		288		
S-2	2'		<16		
S-2	3'		96		
S-2	4'		<16	이는 사람은 <u>"그</u> 가 가 물었는	
S-2	5'		32		
S-3	2'		3760		
S-3	3'		1320		
S-3	4'		9400		
S-3	5'		6200		
S-3	6'		9500		
S-3	7'		11600		
S-3	8'		16000		1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.
S-3	9'		19600		
S-3	10'		6300	1111-111-11-11-11-11 1111-11-11-11-11-11	
S-3	11'		3320		

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH. The chloride remediation standard is considered to be 1,000 mg/kg based upon a water table depth of 100-feet bgs.

Remedial Actions Taken

- The impacted area in the vicinity of sample location S-2 was excavated to a depth of 1-foot bgs.
- The impacted area in the vicinity of sample locations S-1 and S-3 was excavated to a depth of 4-feet bgs.
- A 20-mil liner was installed in the bottom of the 4-foot excavation at sample locations S-1 and S-3.
- All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility.
- Geotagged photographs were taken of the remediation process. Photographic documentation is presented in Appendix IV
- The excavated areas were backfilled with top soil and contoured to match the surrounding terrain.

Closure

On behalf of Legacy Reserves Operating LP, we respectfully request that no further actions be required and that closure with regard to this release be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

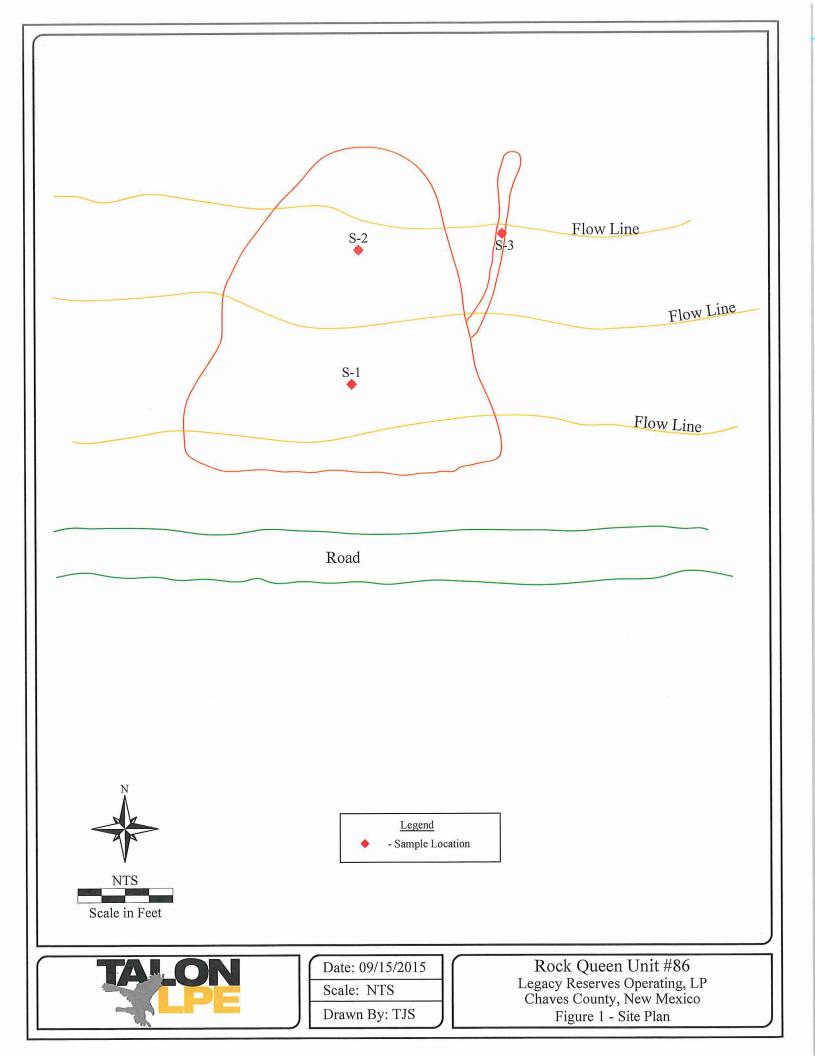
Respectfully submitted, TALON/LPE

Sheldon Hitchcock Project Manager

32

David J. Adkins District Manager

SITE PLAN



GROUNDWATER DATA

and the State of t	New Mexico Office of the State Engineer Water Column/Average Depth to Water	
(A CLW##### in the	(R=POD has	_

POD suffix indicates the POD has been replaced & no longer serves a water right file.)	C=rob has been replace O=orphaned C=the file is closed)	ed, , ((2=NE 3 st to lar	3=SW 4=SI gest) (N	E) VAD83 UTM in me	eters)	(n feet)	
POD Number	POD Sub- Code basin	County		Q 16		Sec	Tws	Rng	х	Y	Distance			Water Column
L 10218	L	LE		4	1	35	13S	31E	612429	3668393* 🌍	1147	185	165	20
RA 11846 POD1		СН	2	4	2	34	13S	31E	611764	3668407 🌍	1793	375	90	285
										Avera	ge Depth to	Water:	127	feet
											Minimum	Depth:	90	feet
											Maximum	Depth:	165	feet
Record Count: 2														and hill free and as

UTMNAD83 Radius Search (in meters):

Easting (X): 613532

Northing (Y): 3668710

Radius: 2000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

INITIAL C-141

&

FINAL C-141

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

API #: 30-005-00931

Release Notification and Corrective Action

	OPERATOR	\boxtimes	Initial Report	П	Final Report
Name of Company : Legacy Reserves Operating, LP	Contact : Daniel Rosa				
Address : 303 W. Wall St. Ste 1300, Midland, TX 79701	Telephone No.: 432-631-0099				
Facility Name : Rock Queen Unit # 86	Facility Type: Well				
			the second se		

Surface Owner : STATE

Mineral Owner:

LOCATION OF RELEASE

Unit Letter E	Section 36	Township 13S	Range 31E	Feet from the 1980	North/South Line North	Feet from the 660	East/West Line West	County: CHAVES
------------------	---------------	-----------------	--------------	--------------------	---------------------------	-------------------	------------------------	----------------

Latitude 33.1485596 N Longitude -103.7815247 W

NATURE OF RELEASE

Type of Release : Mixed Fluids	Volume of Release : 20 bbls Volume Recovered: 5 bbls
Source of Release : Flow line leak	Date and Hour of Occurrence: Date and Hour of Discovery: 8/28/2015
	8/28/2015
Was Immediate Notice Given?	If YES, To Whom?
Yes 🛛 No 🗌 Not Required	
By Whom?	Date and Hour .
Was a Watercourse Reached?	If YES Volume Imposition the Watercourse
Yes 🖾 No	If Y E RECEIVED he Watercourse.
If a Watercourse was Impacted, Describe Fully.*	By OCD District 1 at 10:55 am, Oct 07, 2015
the location and recovered 5 barrels of fluid.	aked causing a release of 20 barrels of mixed fluids. A vac truck was called to
sampling to generate a work plan.	s off the well pad. Talon/LPE was contacted for initial site assessment and soil
public health or the environment. The acceptance of a C-141 report by the	the best of my knowledge and understand that pursuant to NMOCD rules and obtifications and perform corrective actions for releases which may endanger NMOCD marked as "Final Report" does not relieve the operator of liability contamination that pose a threat to ground water, surface water, human health bes not relieve the operator of responsibility for compliance with any other
Signature: Daniel Roya	OIL CONSERVATION DIVISION
Printed Name: Daniel Rosa	Approved by District Supervisor:
Title: Foreman	Approval Date: 10/07/2015 Expiration Date: 12/07/2015
E-mail Address: Drosa@legacylp.com	Conditions of Approval:
	Site samples required. Delineate and remediate as per MNOCD guides. Geotag

photographs of remediation required.

* Attach Additional Sheets If Necessary

nKJ1528038998 pKJ1528039219 District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 8750

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Oil Conservation Division 1220 South St. Francis Dr.

District IV 1220 S. St. Fran	strict IV 1220 South St. Francis Dr. 20 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505											
			Rele	ease Notific		And in case of the local division of the loc		ction				
						OPERAT			🗌 Initia	al Report		inal Report
Name of Co	mpany: L	egacy Reserv	es Opera	ating, LP		Contact: Fre	A MARKET DE LA CONTRACTOR DE LA CONTRACTORIZIÓN DE LA CONTRACTOR DE LA CON	10				
Address: 30	3 W. Wall	St. Ste 1300), Midlan	d, TX 79701		acility Typ	No. 432-664-169	12				
Facility Nar	ne: Rock (Queen Unit #	86			acting Typ						
Surface Ow	ner: State			Mineral C	wner: S	state			API No	, 30-005-0	0931	
						OF RE						
Unit Letter E	Section 36	Township 13S	Range 31E	Feet from the 1980	North/S North	South Line	Feet from the	East/V West	Vest Line	County Chaves		
	I		Lat	titude_ <u>33.1485</u>	5 <u>96</u>	_Longitud	le_ <u>-103.78152</u> 4	7				
				NAT	URE	OF REL						
Type of Rele	ease: Mixed	Fluids					Release: 20bbls			Recovered: : Hour of Dis		
Source of Re	elease: Flow	line				Bate and F 8/28/2015	Iour of Occurrence	ce:	8/28/201:		covery.	
Was Immedi	ate Notice	Given?				If YES, To	Whom?					
			Yes 🗌	No 🛛 Not R	equired							
By Whom?						Date and H	lour:					
Was a Water	rcourse Rea] Yes 🛛	🛾 No		If YES, V	olume Impacting	the Wate	ercourse.			
If a Waterco	urce was In	npacted, Desci	ihe Fully	*								
		iipacica, Desci	1001 4119.									
Describe	una of Duch	lem and Reme	dial Actic	n Taken *	-							
A flowline l	eaked causi	ing a release of	f approxin	nately 20bbls of n	nixed flui	ids. A vacuu	m truck was utiliz	ed to rea	cover appro	oximately 5	bls of fl	uid.
	-	U										
Describe Ar	ea Affected	and Cleanup	Action Ta	iken.*							a	the
The impacte	ed area was	in the pasture	southeast	of the location. T is from the soil say	alon/LPE	E was contact	ted to conduct a s	ite asses	sment and field and si	soil samplir ubsequently	ig within	i by
Impacted are	ea. Upon re be remedia	tion was cond	ncted to th	ne scope laid out in	n the app	roved work	plan. The area wa	is backfi	lled and co	ontoured to	natch the	
surrounding		tion was cond		ie beepe inte ente								
					1	1 1	. I	underet	nd that not	rought to NTA	<u>۱۹۵۵</u>	les and
I hereby cer	tify that the	information	given aboy	ve is true and com and/or file certain	release n	ne best of my	and perform corre	ctive ac	tions for re	leases which	h may en	danger
public healt	h or the ent	vironment. Th	e accentar	nce of a C-141 ren	ort by th	e NMOCD r	narked as "Final I	Report"	docs not re	lieve the op	erator of	hability
should their	onerations	have failed to	adequate	ly investigate and	remediat	e contamina	tion that pose a th	reat to g	round wat	er, surface v	ater, nui	nan nealth
or the envir	onment. In	addition, NM	OCD acce	eptance of a C-14	l report d	loes not relie	ve the operator of	respons	sidility for	compliance	with any	other
federal, stat	e, or local l	aws and/or reg	gulations.				OIL CON	JSERV	ATION	J DIVISI	ON	
	-	2	/	M. D.	l,			DLIC	11101		011	
Signature:	-	redd	u T	Filele	A							
Printed Nar	ne: Freddie					Approved b	y Environmental	Speciali	st:			

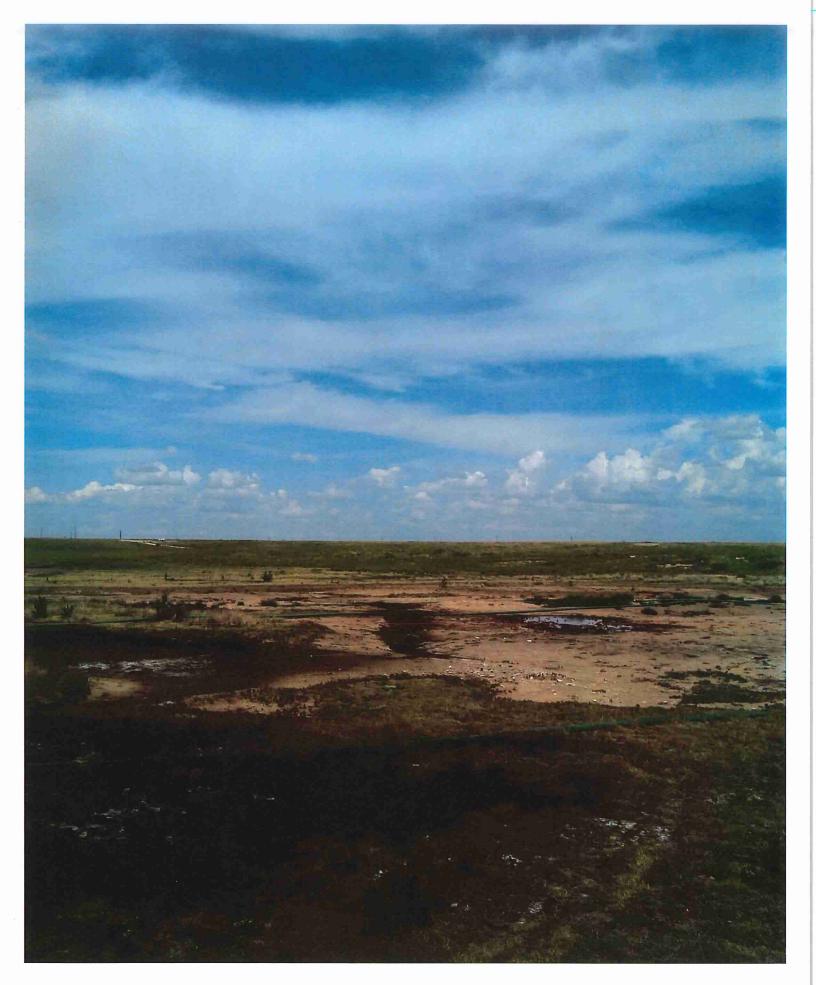
Printed Name: Freddie Gibbs					-
Title: Production Superintenden	t	Approval Date:	Expiration D	Date:	
E-mail Address: fgibbs@legacy		Conditions of Approval:		Attached	
Date: 11/20/15	Phone:432-644-1692				_

* Attach Additional Sheets If Necessary

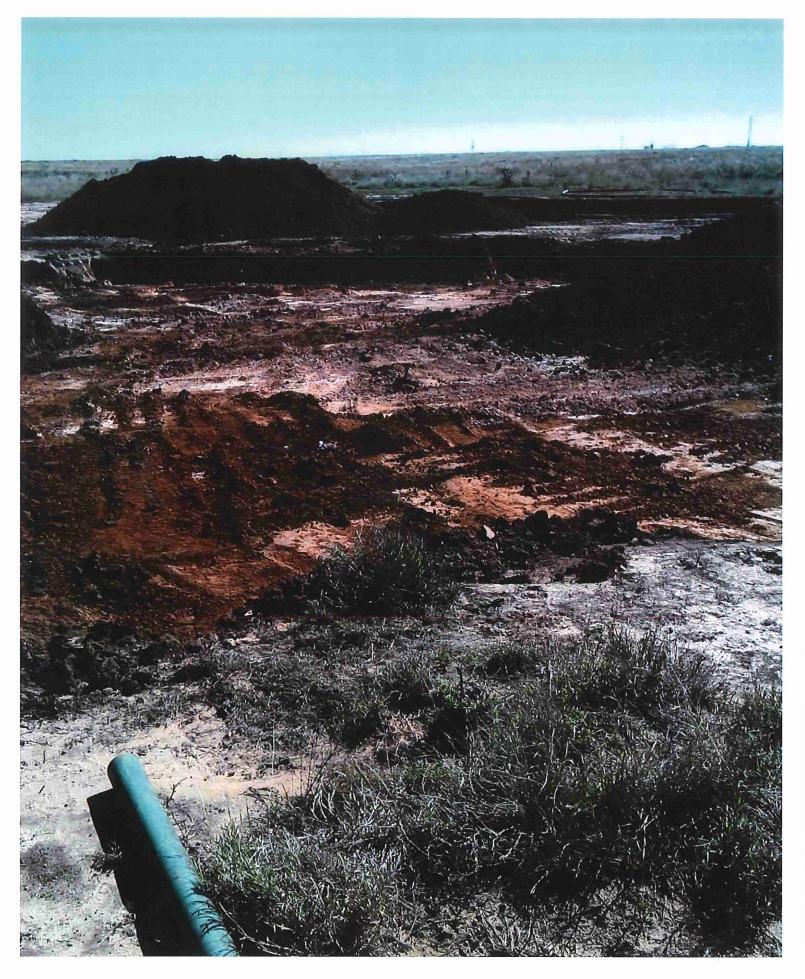
PHOTOGRAPHIC DOCUMENTATION



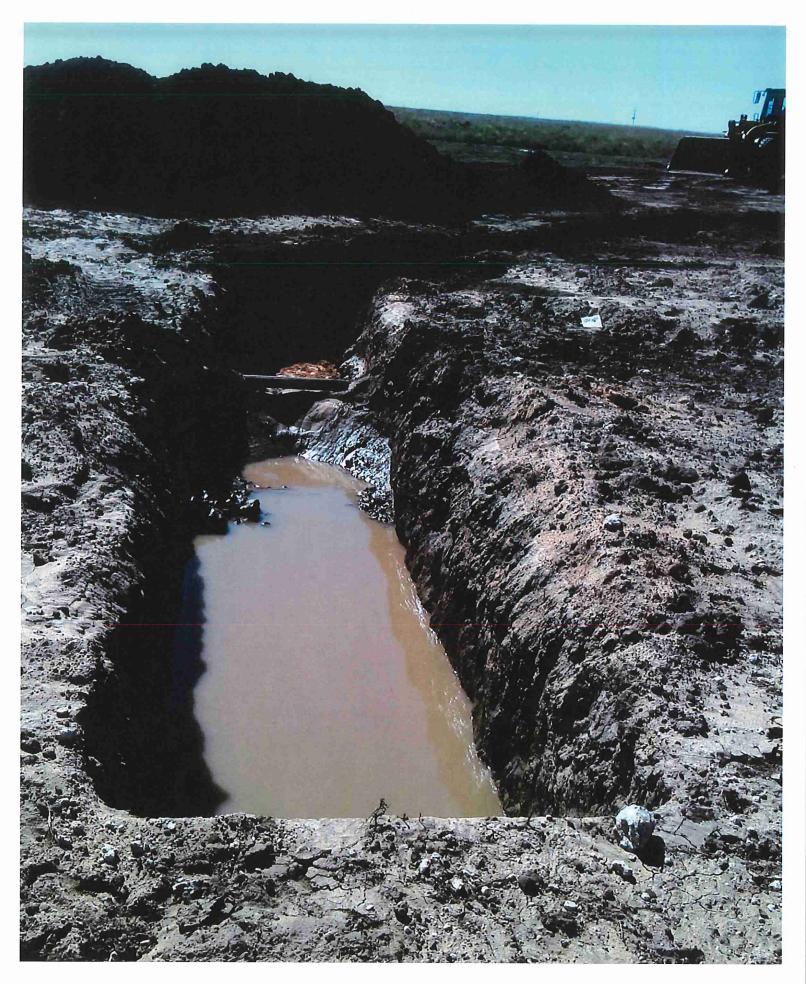
33.146617 -103.779667



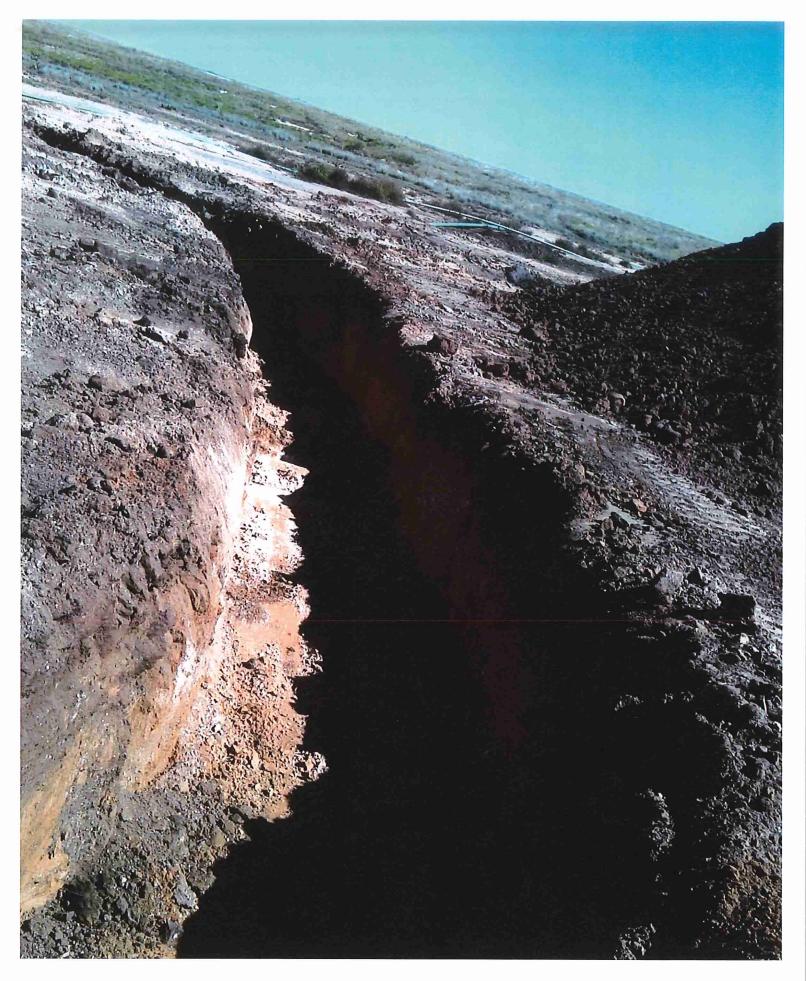
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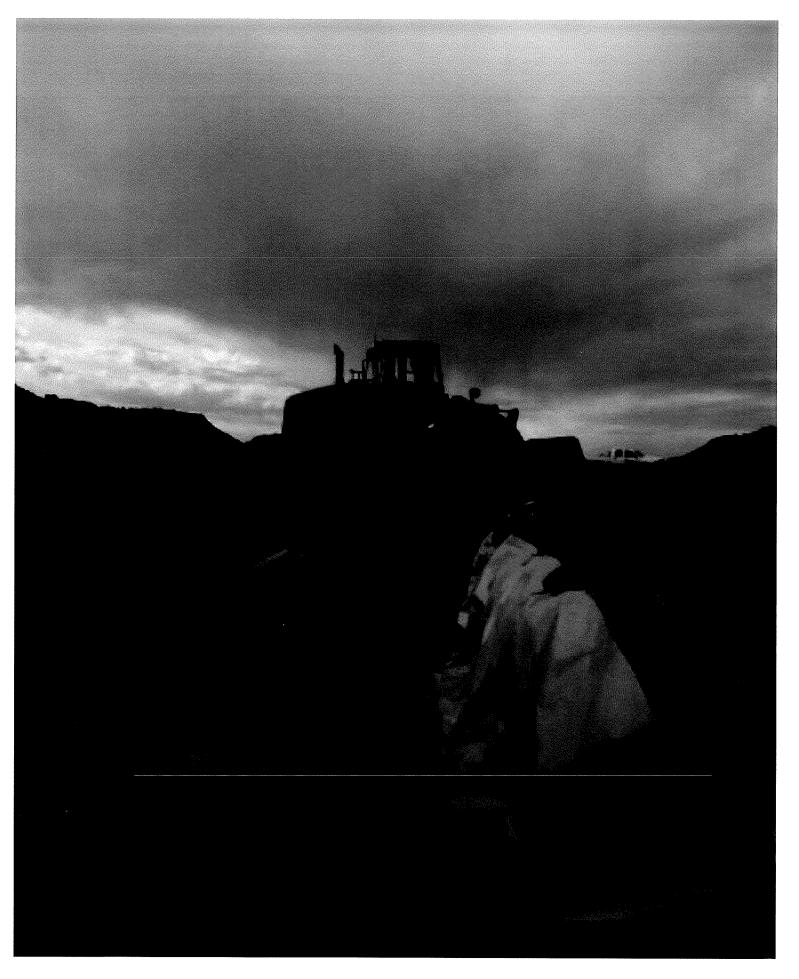
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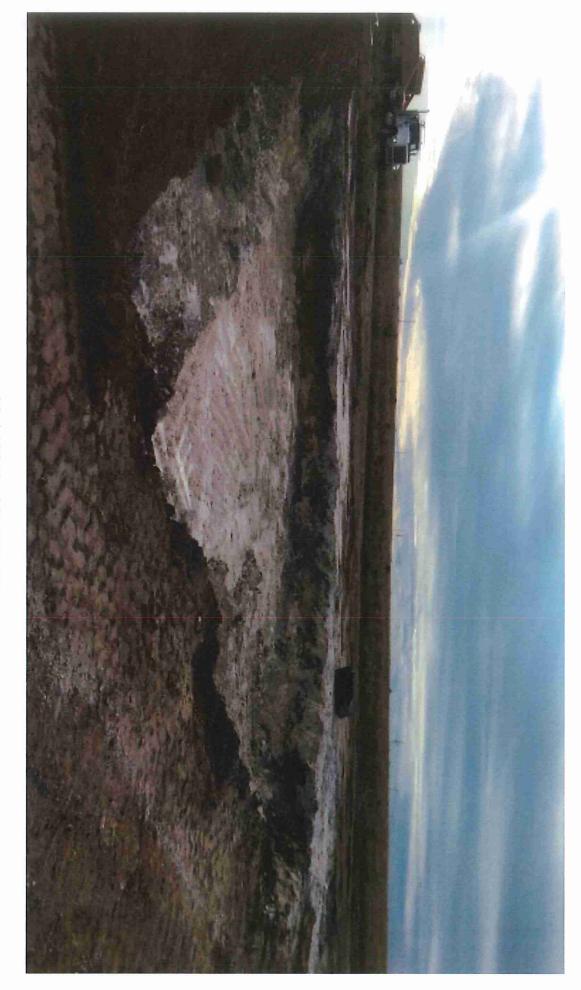
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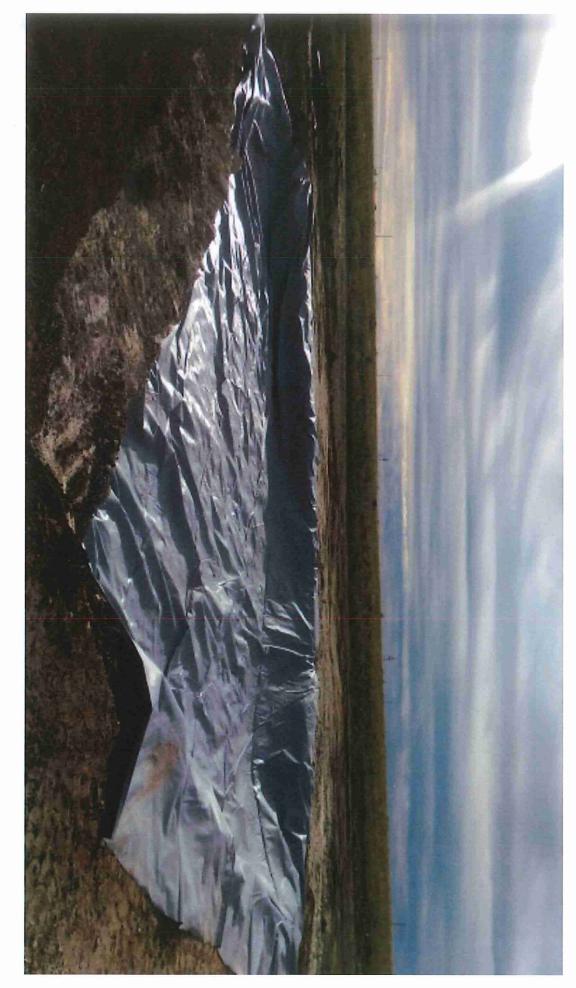
33.146833 -103.77945



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33.146849 -103.779462



33.146848 -103.779463

LABORATORY RESULTS



September 14, 2015

SHELDON HITCHCOCK TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: ROCK QUEEN UNIT #86

Enclosed are the results of analyses for samples received by the laboratory on 09/09/15 10:35.

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/qa/lab 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 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 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 analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited analytes are specified analytes and water and specified accredited analytes and water and specified accredited analytes and water and specified accredited accredited

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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-1 0' (H502367-01)

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	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	0.126	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	0.305	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	0.431	0.300	09/11/2015	ND					
Surrogate: 4-Bromofluorobenzene	e (PIE 105 9	6 85.6-13	7						

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	09/14/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/10/2015	ND	189	94.3	200	2.02	
DR0 >C10-C28	20100	200	09/10/2015	ND	216	108	200	1.76	
Surrogate: 1-Chlorooctane	57.5	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 598 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability 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 interruption, loss of uso of uso 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 upon any of the above stated reasons or otherwise. Results relate only to the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di Keine



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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-1 1' (H502367-02)

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	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	<0.150	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	<0.300	0.300	09/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	09/14/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2015	ND	189	94.3	200	2.02	
DRO >C10-C28	<10.0	10.0	09/10/2015	ND	216	108	200	1.76	
Surrogate: 1-Chlorooctane	73.8 9	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 73.7 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits 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 claims based upon any of the above stated reasons or otherwise. Results relate on the sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Di Kerre-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-1 1.5' REFUSAL (H502367-03)

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	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	<0.150	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	<0.300	0.300	09/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	6 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	09/14/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	09/10/2015	ND	189	94.3	200	2.02	
DRO >C10-C28	976	50.0	09/10/2015	ND	216	108	200	1.76	
Surrogate: 1-Chlorooctane	71.3 9	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	88.8 9	52.1-17	6						

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Celeg Di Kerre

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-2 0' (H502367-04)

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	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	<0.150	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	<0.300	0.300	09/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	106 %	85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13800	16.0	09/14/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2015	ND	189	94.3	200	2,02	
DRO >C10-C28	11.5	10.0	09/10/2015	ND	216	108	200	1.76	
Surrogate: 1-Chlorooctane	73.4 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	72.7 9	52.1-17	6						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-2 1' (H502367-05)

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	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	<0.150	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	<0.300	0.300	09/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 %	6 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	09/14/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2015	ND	189	94.3	200	2.02	
DRO >C10-C28	<10.0	10.0	09/10/2015	ND	216	108	200	1.76	
Surrogate: 1-Chlorooctane	72.1 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	70.9 9	52.1-17	6						

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		
Troject Location.	EEGACI		

Sample ID: S-2 1.5' REFUSAL (H502367-06)

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	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	<0.150	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	<0.300	0.300	09/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	09/14/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2015	ND	189	94.3	200	2,02	
DRO >C10-C28	<10.0	10.0	09/10/2015	ND	216	108	200	1.76	

Surrogate: 1-Chlorooctane69.9 %47.2-157Surrogate: 1-Chlorooctadecane79.7 %52.1-176

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Celeg Di Keine-

Celey D. Keene, Lab Director/Quality Manager



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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-3 0' (H502367-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS		5			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	<0.150	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	<0.300	0.300	09/11/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23600	16.0	09/14/2015	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: CK					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	09/10/2015	ND	189	94.3	200	2.02	
DRO >C10-C28	16800	200	09/10/2015	ND	216	108	200	1.76	

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

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Celeg Di Keine

77.9%

437 %

47.2-157

52.1-176



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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-3 1' (H502367-08)

mg	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	09/11/2015	ND	2.04	102	2.00	1.40	
<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
<0.150	0.150	09/11/2015	ND	6.31	105	6.00	0.796	
<0.300	0.300	09/11/2015	ND					
	Result <0.050 <0.050 <0.050 <0.150	Result Reporting Limit <0.050	Result Reporting Limit Analyzed <0.050	<0.050 0.050 09/11/2015 ND <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL 107 % 85.6-137

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	09/14/2015	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2015	ND	189	94.3	200	2.02	
DRO >C10-C28	35,6	10.0	09/10/2015	ND	216	108	200	1.76	
Surrogate: 1-Chlorooctane	72.7	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 82.7 % 52.1-176

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

Received:	09/09/2015	Sampling Date:	09/08/2015
Reported:	09/14/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Jodi Henson
Project Location:	LEGACY		

Sample ID: S-3 1.5' REFUSAL (H502367-09)

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	09/11/2015	ND	2.04	102	2.00	1.40	
Toluene*	<0.050	0.050	09/11/2015	ND	1.87	93.3	2.00	1.27	
Ethylbenzene*	<0.050	0.050	09/11/2015	ND	1.91	95.7	2.00	0.474	
Total Xylenes*	<0.150	0,150	09/11/2015	ND	6.31	105	6.00	0.796	
Total BTEX	<0.300	0.300	09/11/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIL 105 % 85.6-137

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13600	16.0	09/14/2015	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/10/2015	ND	189	94.3	200	2.02	
DRO >C10-C28	<10.0	10.0	09/10/2015	ND	216	108	200	1.76	
Surrogate: 1-Chlorooctane	74.7	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 83.9 % 52.1-176

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Celeg Di Keene



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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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Celeg D. Keine-

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(575) 393-2326 FAX (575) 393-2476	33-2476				
Company Name: Talon/LPE		OL TIIB	A second contract of the second contract of t	ANALYSIS REQUEST	Γ
Project Manager: 5, Hitch Cock		P.O. #:			Τ
Address: 408 W. Texas Ave.		company: Talon/LPE			
City: Artesia state: NM	NM zip: 88210	Attn:			
Phone #: 575-746-8768 Fax #: 5	Fax #: 575-746-8905	Address:			
	Project Owner: / CqauY	City:			
Project Name: ROM QUEN UNIT	\$#	State: Zip:			
	•	Phone #:			
Sampler Name: 5, Hitch Cole		Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
Lab I.D. Sample I.D.	ор (с)омр Ајиерз руматер Матер	OC SOL	EX F		
H502367	TNOD #		142 18 14 14 14 14 14		
1 5-1 0,		1 9/8/15 1	:12 / / /		Τ
2 6-1 1	611		1 / / h		
5 5-11.5 recupal	6 1 1		11/1/1		
45-20'	\dot{G} ι ι^{\prime}	:1 7.	1/1/ 02:		
	6 1 7		1/1/22		
65-21,5'refugal	G C L		:26/1/1		
2-30	G c		7 1 7 05		
16-36	6 1 1		/ / / 26:		
3-3 Lig VEPAGal	-		39 11 /		
PLEASE NOTE: Lability and Damages. Cardinar's lability and client's exclusive remedy for any claim areining whether based in contract or lost, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal writin 30 days after completion of the applicable	medy for any claim arising whether based in contract or ir shall be deemed waived unless made in writing and	arising whether based in contract or lort, shall be limited to the arrount paid by the client for the waived unitess made in writing and received by Candinal within 30 days after completion of he ar	he client for the pletion of the applicable	-	٦
versions, in no event anian caronata pe table for incloental of consequential damages, including without affiliates or successons arising out of or related to the performance of services, hereunder by Cardinal, i Do its	 Including without limitation, business interruptions, lo under by Cardinal, regardless of whether such claim is 	limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, regardless of whether such claim is based upon any of the above stated reasons or otherwise			
Shelfur Alun Imme	115 Repeived By:	ENDON RE	Result: 7es sult: 7es RKS:	□ No Add'I Phone #: □ No Add'I Fax #:	
Keiinquished Byt	Received By:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	4. Do Cool Intact	n CHECKED BY:			
† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326	Please fax written changes to (575) 3 93- 2326			1



September 24, 2015

SHELDON HITCHCOCK TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: ROCK QUEEN UNIT #86

Enclosed are the results of analyses for samples received by the laboratory on 09/18/15 13:45.

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 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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	09/18/2015	Sampling Date:	09/18/2015
Reported:	09/24/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Judy Garcia
Project Location:	E-36-13-31		

Sample ID: S-1 2' (H502467-01)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-1 3' (H502467-02)

Chloride, SM4500CI-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-1 4' (H502467-03)

Chloride, SM4500CI-B	oride, SM4500CI-B mg/kg			Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-1 6' (H502467-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7200	16.0	09/22/2015	ND	416	104	400	3.77	

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Celey D. Keine



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

Received:	09/18/2015	Sampling Date:	09/18/2015
Reported:	09/24/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Judy Garcia
Project Location:	E-36-13-31		

Sample ID: S-1 7' (H502467-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM			-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-1 8' (H502467-06)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-1 9' (H502467-07)

Chloride, SM4500Cl-B mg/kg			Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-1 10' (H502467-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-2 2' (H502467-09)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2015	ND	416	104	400	3.77	

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

Received:	09/18/2015	Sampling Date:	09/18/2015
Reported:	09/24/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Judy Garcia
Project Location:	E-36-13-31		

Sample ID: S-2 3' (H502467-10)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-2 4' (H502467-11)

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-2 5' (H502467-12)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-3 2' (H502467-13)

								the second s
Analyte Resul	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride 3760	16.0	09/22/2015	ND	416	104	400	3.77	

Sample ID: S-3 3' (H502467-14)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	13200	16.0	09/23/2015	ND	416	104	400	3.92	

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Received:	09/18/2015	Sampling Date:	09/18/2015
Reported:	09/24/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Judy Garcia
Project Location:	E-36-13-31		

Sample ID: S-3 4' (H502467-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	09/23/2015	ND	416	104	400	3.92	

Sample ID: S-3 5' (H502467-16)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6200	16.0	09/23/2015	ND	416	104	400	3.92	

Sample ID: S-3 6' (H502467-17)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9500	16.0	09/23/2015	ND	416	104	400	3.92	

Sample ID: S-3 7' (H502467-18)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11600	16.0	09/23/2015	ND	416	104	400	3.92	

Sample ID: S-3 8' (H502467-19)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	09/23/2015	ND	416	104	400	3.92	

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Received:	09/18/2015	Sampling Date:	09/18/2015
Reported:	09/24/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	Cool & Intact
Project Number:	701047.156.01	Sample Received By:	Judy Garcia
Project Location:	E-36-13-31		 and the second se

Sample ID: S-3 9' (H502467-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	09/23/2015	ND	416	104	400	3.92	

Sample ID: S-3 10' (H502467-21)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6300	16.0	09/23/2015	ND	416	104	400	3.92	

Sample ID: S-3 11' (H502467-22)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3320	16.0	09/23/2015	ND	416	104	400	3.92	

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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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ANALYSIS REQUEST

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ANALYSIS REQUEST		0	BILL TO		C.K.	Project Manager: S. H. Hun lock	Project
				-		Company Name: Talon/LPE	Compar
					(575) 393-2326 FAX (575) 393-2476	(575) 393-2326 F	
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Page 9 of 10

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			□ Yes	Yes No	of the applicable Idlaries.						_	<u></u>		3							ANALYSIS REDUEST		CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	је 10	of 1	\$ P630E3

CARDINAL Laboratories



December 8, 2015

Ms. Kellie Jones NMOCD District I

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 430 West Wilshire, Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

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

1625 N. French Dr. Hobbs, NM 88240

Subject:

Remedial Activities and Closure Report (Addendum 1) Legacy Reserves Operating, LP Rock Queen Unit #86 API #: 30-005-00931 (1RP-3900)

Sample Location S-3 Vertical Delineation

10/21/2015

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg DRO
S-3	12		1040		
S-3	13		608		
S-3	14		480		
S-3	15		ND		

(--) Analyte Not Tested (ND) Analyte Not Detected

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH, 1,000 mg/kg for Chloride.

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

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LABORATORY RESULTS



October 22, 2015 SHELDON HITCHCOCK TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ROCK QUEEN UNIT #86

Enclosed are the results of analyses for samples received by the laboratory on 10/21/15 15:36.

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/qa/lab 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 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 SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:	10/21/2015	Sampling Date:	10/21/2015
Reported:	10/22/2015	Sampling Type:	Soil
Project Name:	ROCK QUEEN UNIT #86	Sampling Condition:	** (See Notes)
Project Number:	701047.156.01	Sample Received By:	Judy Garcia
Project Location:	E-36-13-31		

Sample ID: S-3 12' (H502751-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	10/22/2015	ND	416	104	400	0.00	

Sample ID: S-3 13' (H502751-02)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	10/22/2015	ND	432	108	400	3.77	

Sample ID: S-3 14' (H502751-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	Analyzed By: AP					6
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/22/2015	ND	432	108	400	3.77	

Sample ID: S-3 15' (H502751-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/22/2015	ND	432	108	400	3.77	

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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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101 East Marland, Hobbs, NM 88240	
(575) 393-2326 FAX (575) 393-2476	ANALYSIS REQUEST
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	Company: Talon/LPE
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