

Cross Border Resources Sunray State Tank Battery

Closure Report Section 16, Township 8S, Range 31E Chaves County, New Mexico

February 20, 2018



Prepared for: Red Mountain Resources 14282 Gills Rd. Farmers Branch, TX 75244

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (505) 397-0510

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I. Company Contacts

NAME	Company	Telephone	E-mail
Ross	Red Mountain	817-996-4653	ross@redmountainresources.com
Pearson	Resources, Inc.		_
Bob Allen	SESI	505-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged to perform delineation services on the Sunray State Battery located in Section 16, Township 8S, Range 31E Chaves County, New Mexico. According to the C-141: a compromised line to the heater treater ruptured, causing a release of crude oil to ground surface. The line was repaired, and the impacted surface area was fenced in. The C-141 was filed with NMOCD on April 24, 2015 and assigned **1RP-3619**.

III. Surface and Ground Water

Research of the *New Mexico Office of the State Engineer* indicates that there is no record of groundwater in the immediate vicinity, but that average depth to water for Township 8S, and Range 31E is 103' BGS.

IV. Characterization

The target cleanup levels are determined using the *Guidelines for Remediation of Leaks, Spills and Releases* published by the NMOCD (August 13, 1993). Based on the ranking criteria presented below, the applicable Recommended Remediation Action Levels (RRAL) are 10 parts per million (ppm) Benzene, 50 ppm combined benzene, toluene, ethyl benzene, and total xylenes (BTEX), and 100 ppm Total Petroleum Hydrocarbons (TPH). Characterization of vertical extent of chloride concentration to a level of 250 mg/kg (PPM) is also required.

Depth to Ground Water:									
(Vertical distance from contaminants to	Less than 50 feet	20 points							
seasonal high water elevation of	50 feet to 99 feet	10 points							
groundwater)	>100 feet	0 points	Х						
Wellhead Protection Area:									
(Less than 200 feet from a private domestic	Yes	20 points							
water source; or less than 1000 feet from all	No	0 points	Х						
other water sources)									
Distance to Surface Water:									
(Horizontal distance to perennial lakes,	Less than 200 feet	20 points							
ponds, rivers, streams, creeks, irrigation	200 feet to 1000 feet	10 points							
canals and ditches)	>1000 feet	0 points	Χ						
RANKING SCORE (TOTAL POINTS)			0						

V. Work Performed

On June 15, 2016 SESI personnel were on location to address the concerns of ground surface impact. The impacted area was mapped utilizing a handheld Trimble Juno 3D, whereby it was determined that the spill area measured approximately 28,704 sq. ft. The site was flagged in order to activate a line locate request with the New Mexico One Center, in order to conduct a vertical delineation of the impacted area.

On June 29, 2016 SESI personnel revisited the site in order to determine the vertical extent of impact and map sample point positions. Four (4) Soil Bores were advanced from depths of 1' BGS at BH-4 to 27' BGS at BH-3, respectively. Representative soil samples were retrieved at various depth below ground surface, properly packaged, preserved, transported to Cardinal Labs of Hobbs, NM by Chain of Custody and analyzed for Chloride (CI⁻) (Method SM 4500CI-B). The results are presented in the table below:

Soil Sample Results: Field Tests 06-29-16								
SAMPLE ID	Sample Date	Field Test CHLORIDES	Lab Results CHLORIDES					
BH-1 Surface	6/29/16	1030 ppm						
BH-1 @ 1'	6/29/16	1030 ppm						
BH-1 @ 2'	6/29/16	1040 ppm						
BH-1 @ 3'	6/29/16	1045 ppm						
BH-1 @ 4'	6/29/16		32.0					
BH-2 @ 4'	6/29/16	<124 ppm						
BH-3 @ 4'	07/01/16		32.0					
BH-3 @ 7'	6/29/16		976					
BH-3 @ 8'	07/01/16	4484 ppm						
BH-3 @ 11'	6/29/16	4884 ppm						
BH-3 @ 12'	7/01/16		2440					
BH-3 @ 13'	6/29/16	3164 ppm						
BH-3 @ 16'	7/01/16	1012 ppm						
BH-3 @ 17'	6/29/16	1528 ppm						
BH-3 @ 20'	7/01/16		976					
BH-3 @ 24'	07/01/16	360 ppm						
BH-3 @ 27'	07/01/16		192					
	(/20/16	<104						
BH-4 Surface	6/29/16	<124	14.0					
BH-4 @ 1'	6/29/16		16.0					

Between October 13, 2016 and October 24, 2016, Gandy removed the hard pan hydrocarbon from the site and transported the material to an NMOCD approved facility.

Between November 7, 2017 and November 8, 2017, SESI personnel was onsite with Gandy Corporation backhoe operator at the Sunray State 2 Battery to begin remediation. The excavation was twelve by twelve square feet and soil samples were obtained and field test on all four walls. Soil samples were obtained and field tested on all four walls, and two areas from the bottom of the excavation. A liner was installed and loaded with backfill material. The excavation and sample points were mapped and photos were taken of the excavation and the installed liner. All soil samples were properly preserved.

On December 11, 2017, SESI personnel was onsite at the CBR Sunray Battery to till and reseed the affected area. SESI personnel walked the whole area of the site and hand spread the seed. Before and after photos of the area were taken.

VI. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 250ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade. The area has also been reseeded with BLM #2-LPC seed mixture, and SESI commits to a second application being applied in spring 2018. Cross Border Resources respectfully submits this closure report for your consideration, and requests that no further action be required.

VII. Figures & Appendices

Figure 1 – Vicinity Map Figure 2– Site Plan Appendix A – Analytical Results Appendix B – Site Photos Appendix C – C-141 Figure 1 Vicinity Map



Figure 2 Site Plan



Appendix A Analytical Results



March 28, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CBR-16-001

Enclosed are the results of analyses for samples received by the laboratory on 03/24/17 8:15.

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/ga/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



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	03/24/2017	Sampling Date:	03/20/2017
Reported:	03/28/2017	Sampling Type:	Soil
Project Name:	CBR-16-001	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: AH -1 1' (H700779-01)

Chloride, SM4500Cl-B	mg	ng/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/27/2017	ND	448	112	400	0.00	

Sample ID: AH -1 1.5' (H700779-02)

Chloride, SM4500Cl-B	mg	mg/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/27/2017	ND	448	112	400	0.00	

Sample ID: AH -2 1' (H700779-03)

Chloride, SM4500Cl-B	mg	mg/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	448	112	400	0.00	

Sample ID: AH -2 2' (H700779-04)

Chloride, SM4500Cl-B	mg,	ng/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	448	112	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

Received:	03/24/2017	Sampling Date:	03/20/2017
Reported:	03/28/2017	Sampling Type:	Soil
Project Name:	CBR-16-001	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: AH -3 1' (H700779-05)

Chloride, SM4500Cl-B	mg	ng/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/27/2017	ND	448	112	400	0.00	

Sample ID: AH -3 2' (H700779-06)

Chloride, SM4500Cl-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	03/27/2017	ND	448	112	400	0.00	

Sample ID: AH -3 3' (H700779-07)

Chloride, SM4500Cl-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	03/27/2017	ND	448	112	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

company many calory and	PO #	
Project Manager: Bob Allen		
E	Company: Same	
Hobbs	b: 88240 Attn:	
575 307-0510 Fax #: 575	393-4388 Address:	
CR0 16-201 Project Owns	City:	
	State: Zip:	
Project Name:	#	
Project Location:		
Sampler Name:	MATRIX PRESERV SAMPLING	
Lab I.D. Sample I.D.	CONTAINERS COUNDWATER ASTEWATER DIL L LUDGE THER : CID/BASE: E / COOL THER :	
Hunoria (G)F	# CC GR WA SO OIL SLL ICI OT DA IE	
Alt-1 IPT 9	03/20	
2 AHY IN TT	1 501 02/20 105	
1 AH-2 2Ft 4	1 02/60	
2 AH-3 (Pr 4		
1 AH-2 247 9		
	1 1 K 01120 1212	
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MULATIOUM THE'S &	Sample Condition CHECKED BY:	
Delivered By: (Circle One)	Cool Intact (Intrustas)	



June 30, 2017

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: CBR -16 -001

Enclosed are the results of analyses for samples received by the laboratory on 06/21/17 9:31.

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/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	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

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project Number: N Project Manager: B		Reported: 30-Jun-17 16:38	
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Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
ΤΤ -1 1'	H701601-01	Soil	20-Jun-17 11:15	21-Jun-17 09:31
TT -1 3'	H701601-02	Soil	20-Jun-17 11:15	21-Jun-17 09:31
TT -1 4'	H701601-03	Soil	20-Jun-17 11:20	21-Jun-17 09:31
TT -1 9'	H701601-04	Soil	20-Jun-17 11:40	21-Jun-17 09:31
TT -1 14'	H701601-05	Soil	20-Jun-17 12:00	21-Jun-17 09:31
ΤΤ -2 1'	H701601-06	Soil	20-Jun-17 12:20	21-Jun-17 09:31
ΤΤ -2 3'	H701601-07	Soil	20-Jun-17 12:20	21-Jun-17 09:31
TT -2 4'	H701601-08	Soil	20-Jun-17 12:30	21-Jun-17 09:31
TT -2 9'	H701601-09	Soil	20-Jun-17 12:50	21-Jun-17 09:31
TT -2 14'	H701601-10	Soil	20-Jun-17 13:10	21-Jun-17 09:31
TT -4 1'	H701601-11	Soil	20-Jun-17 13:15	21-Jun-17 09:31
TT -4 3'	H701601-12	Soil	20-Jun-17 13:15	21-Jun-17 09:31
TT -4 4'	H701601-13	Soil	20-Jun-17 13:30	21-Jun-17 09:31
TT -4 9'	H701601-14	Soil	20-Jun-17 13:45	21-Jun-17 09:31
TT -4 14'	H701601-15	Soil	20-Jun-17 14:00	21-Jun-17 09:31

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental SolutionsProject:CBR -16 -001703 East ClintonProject Number:NONE GIVENHobbs NM, 88240Project Manager:Bob AllenFax To:(575) 393-4388	Reported: 30-Jun-17 16:38
--	------------------------------

TT -1 1'

H701601-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-	148	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	20.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			92.1 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			80.1 %	34.7	-157	7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories

Soluble (DI Water Extraction)								
Chloride	76.7	10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solu 703 East Clinton Hobbs NM, 88240	tions		Project Nun Project Mana		NE GIVEN Allen	8		3	Reported: 30-Jun-17 16:	38
				FT -1 3' 601-02 (So	.;])					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
Volatile Organic Compounds by	v EPA Method	8021								
Benzene*	<0.050	0021	0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-	148	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			91.5 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	34.7-	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	285		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solu 703 East Clinton Hobbs NM, 88240	itions		Project Nun Project Nun Project Mana Fa	Reported: 30-Jun-17 16:38						
				T-1 4'	.1)					
			H701	601-03 (So	911) 					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	ories					
Volatile Organic Compounds b	y EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-	148	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			91.5 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
			Green Anal	ytical Lab	oratories					
Soluble (DI Water Extraction)										
Chloride	113		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solut 703 East Clinton Hobbs NM, 88240	Clinton Project Number: NONE GIVEN 30-Jun-17 16:38									
				T -1 9'						
			H7010	501-04 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	22-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	72-	48	7062201	MS	22-Jun-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			<i>93.7 %</i>	28.3	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.1 %	34.7	157	7062104	MS	22-Jun-17	8015B	
Soluble (DI Water Extraction)			Green Analy	tical Lab	oratories					

10.0

Cardinal Laboratories

Chloride

*=Accredited Analyte

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mg/kg wet

10

B706234

JDA

30-Jun-17

EPA300.0

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analyte			T		Safety & Environmental SolutionsProject:CBR -16 -001R703 East ClintonProject Number:NONE GIVEN30-JHobbs NM, 88240Project Manager:Bob AllenFax To:(575) 393-4388									
Analyte			1	Γ-1 14'										
Analyte			H701	501-05 (Sa	il)									
	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes				
			Cardina	l Laborat	ories									
Volatile Organic Compounds by El	PA Method	8021												
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B					
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B					
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B					
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	23-Jun-17	8021B					
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	23-Jun-17	8021B					
Surrogate: 4-Bromofluorobenzene (PID)			99.9 %	72	148	7062201	MS	23-Jun-17	8021B					
Petroleum Hydrocarbons by GC F	ID													
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B					
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B					
Surrogate: 1-Chlorooctane			93.9 %	28.3-	164	7062104	MS	22-Jun-17	8015B					
Surrogate: 1-Chlorooctadecane			77.5 %	34.7-	157	7062104	MS	22-Jun-17	8015B					
Soluble (DI Water Extraction)			Green Analy	tical Lab	oratories									

10.0

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Chloride

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mg/kg wet

10

B706234

JDA

30-Jun-17

EPA300.0

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental SolutionsProject:CBR -16 -001703 East ClintonProject Number:NONE GIVEN30Hobbs NM, 88240Project Manager:Bob AllenFax To:(575) 393-438850										38
			-	T -2 1'						
			H701	501-06 (So	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062201	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	72-	148	7062201	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			95.5 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			81.5 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
			Green Analy	tical Lab	oratories					
Soluble (DI Water Extraction)										

10.0

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Chloride

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mg/kg wet

10

B706234

JDA

29-Jun-17

EPA300.0

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutio 703 East Clinton Hobbs NM, 88240	ons		Project Num Project Mana		Reported: 30-Jun-17 16:38					
				T -2 3' 601-07 (Se	sil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by 1	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.5 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	16.7		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			90.8 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			83.3 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
			Green Analy	vtical Lab	oratories					

Soluble (DI Water Extraction)								
Chloride	12.0	10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solu 703 East Clinton Hobbs NM, 88240	utions	Project: CBR -16 -001 Project Number: NONE GIVEN Project Manager: Bob Allen Fax To: (575) 393-4388							Reported: 30-Jun-17 16:38		
				T -2 4'	•1\						
			H701	601-08 (So	oil)						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	al Laborat	ories						
Volatile Organic Compounds b	y EPA Method	8021									
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B		
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B		
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B		
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B		
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B		
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-	148	7062202	MS	23-Jun-17	8021B		
Petroleum Hydrocarbons by G	C FID										
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B		
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B		
Surrogate: 1-Chlorooctane			90.6 %	28.3	164	7062104	MS	22-Jun-17	8015B		
Surrogate: 1-Chlorooctadecane			79.2 %	34.7	-157	7062104	MS	22-Jun-17	8015B		
			Green Anal	ytical Lab	oratories						
Soluble (DI Water Extraction)											
Chloride	174		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0		

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutio 703 East Clinton Hobbs NM, 88240	SolutionsProject:CBR -16 -001Reported:Project Number:NONE GIVEN30-Jun-17 16:Project Manager:Bob AllenFax To:(575) 393-4388									38
				T-2 9'	•1\					
			H701	601-09 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.7 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			90.6 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			78.0 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
Soluble (DI Water Extraction)			Green Analy	vtical Lab	oratories					

Chloride 82.3 10.0 mg/kg wet 10	B706234 JDA	29-Jun-17	EPA300.0
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Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Succy & Environmental Solutions									Reported: :0-Jun-17 16:	38
				Г-2 14'						
			H7010	501-10 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			98.0 %	28.3	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.9 %	34.7	157	7062104	MS	22-Jun-17	8015B	
Soluble (DI Water Extraction)			Green Analy	tical Lab	oratories					

10.0

Cardinal Laboratories

Chloride

*=Accredited Analyte

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mg/kg wet

10

B706234

JDA

30-Jun-17

EPA300.0

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Soluti 703 East Clinton Hobbs NM, 88240	I Solutions Project: CBR -16 -001 Reported: Project Number: NONE GIVEN 30-Jun-17 16:38 Project Manager: Bob Allen Fax To: (575) 393-4388									
				T -4 1'						
			H701	601-11 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.9 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			90.5 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			79.0 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
Soluble (DI Water Extraction)			Green Analy	tical Lab	oratories					

Chloride

<10.0

mg/kg wet

10

B706234

10.0

29-Jun-17

EPA300.0

JDA

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutio 703 East Clinton Hobbs NM, 88240	SolutionsProject:CBR -16 -001Reported:Project Number:NONE GIVEN30-Jun-17 16Project Manager:Bob AllenFax To:(575) 393-4388									:38
				T-4 3'						
			H/010	601-12 (So))					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.3 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			92.6 %	28.3	-164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			82.4 %	34.7	-157	7062104	MS	22-Jun-17	8015B	
Soluble (DI Water Extraction)			Green Analy	vtical Lab	oratories					

10.0

Cardinal Laboratories

Chloride

*=Accredited Analyte

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mg/kg wet

10

B706234

JDA

30-Jun-17

EPA300.0

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solu 703 East Clinton Hobbs NM, 88240	tions								Reported: 30-Jun-17 16:	38
				T -4 4'						
			H701	501-13 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds b	y EPA Method 8	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			100 %	72-	48	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by G	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			95.8 %	28.3	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			80.5 %	34.7	157	7062104	MS	22-Jun-17	8015B	
			Green Analy	tical Lab	oratories					

Chloride

<10.0

mg/kg wet 10

B706232

10.0

29-Jun-17

EPA300.0

JDA

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solut 703 East Clinton Hobbs NM, 88240	ions	,						Reported: 30-Jun-17 16:	38	
				T -4 9'						
			H701	501-14 (So	il)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			99.6 %	72-	48	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GC	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctane			88.5 %	28.3	164	7062104	MS	22-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			76.1 %	34.7	157	7062104	MS	22-Jun-17	8015B	
Soluble (DI Water Extraction)			Green Analy	tical Lab	oratories					

Chloride 78.6 10.0 mg/kg wet 10 B706232 JDA 29-Jun-17 EPA300.0

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solut 703 East Clinton Hobbs NM, 88240	ions	5							Reported: 30-Jun-17 16	38
				Г-4 14'						
			H701	501-15 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Volatile Organic Compounds by	EPA Method	3021								
Benzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	7062202	MS	23-Jun-17	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			101 %	72-	148	7062202	MS	23-Jun-17	8021B	
Petroleum Hydrocarbons by GO	C FID									
GRO C6-C10	<10.0		10.0	mg/kg	1	7062105	MS	21-Jun-17	8015B	
DRO >C10-C28	<10.0		10.0	mg/kg	1	7062105	MS	21-Jun-17	8015B	
Surrogate: 1-Chlorooctane			91.6 %	28.3	-164	7062105	MS	21-Jun-17	8015B	
Surrogate: 1-Chlorooctadecane			95.3 %	34.7	-157	7062105	MS	21-Jun-17	8015B	
			Green Analy	tical Lab	oratories					
Soluble (DI Water Extraction)										

100

Cardinal Laboratories

Chloride

*=Accredited Analyte

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mg/kg wet

100

B706232

JDA

29-Jun-17

EPA300.0

Celeg D. Keine

<100

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: CBR -16 -(Project Number: NONE GIV Project Manager: Bob Allen	VEN 30-Jun-17 16:38	
10003 111, 002 10	Fax To: (575) 393	-4388	

Volatile Organic Compounds by EPA Method 8021 - Quality Control

		Cardir	1al Lab	oratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 7062201 - Volatiles										
Blank (7062201-BLK1)				Prepared &	Analyzed:	22-Jun-17	,			
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)	ND		mg/kg	0.0500		98.6	72-148			
LCS (7062201-BS1)				Prepared &	Analyzed:	22-Jun-17	,			
Benzene	2.17	0.050	mg/kg	2.00		109	79.5-124			
Toluene	2.00	0.050	mg/kg	2.00		99.8	75.5-127			
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	77.7-125			
Total Xylenes	5.87	0.150	mg/kg	6.00		97.9	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0495		mg/kg	0.0500		98.9	72-148			
LCS Dup (7062201-BSD1)				Prepared &	Analyzed:	22-Jun-17	,			
Benzene	2.20	0.050	mg/kg	2.00		110	79.5-124	1.21	6.5	
Toluene	2.03	0.050	mg/kg	2.00		101	75.5-127	1.55	7.02	
Ethylbenzene	2.09	0.050	mg/kg	2.00		105	77.7-125	3.17	7.83	
Total Xylenes	6.06	0.150	mg/kg	6.00		101	70.9-124	3.22	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0498		mg/kg	0.0500		99.6	72-148			

Batch 7062202 - Volatiles

Blank (7062202-BLK1)				Prepared: 22-Jun-	-17 Analyzed: 23	-Jun-17	
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)	0.0504		mg/kg	0.0500	101	72-148	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton	Project Number:		Reported: 30-Jun-17 16:38
Hobbs NM, 88240	Project Manager:	Bob Allen	
	Fax To:	(575) 393-4388	

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7062202 - Volatiles										
LCS (7062202-BS1)				Prepared: 2	2-Jun-17 A	nalyzed: 23	3-Jun-17			
Benzene	2.17	0.050	mg/kg	2.00		109	79.5-124			
Toluene	1.99	0.050	mg/kg	2.00		99.6	75.5-127			
Ethylbenzene	2.04	0.050	mg/kg	2.00		102	77.7-125			
Total Xylenes	5.88	0.150	mg/kg	6.00		98.0	70.9-124			
Surrogate: 4-Bromofluorobenzene (PID)	0.0515		mg/kg	0.0500		103	72-148			
LCS Dup (7062202-BSD1)				Prepared: 2	2-Jun-17 A	nalyzed: 23	3-Jun-17			
Benzene	2.17	0.050	mg/kg	2.00		108	79.5-124	0.261	6.5	
Toluene	1.98	0.050	mg/kg	2.00		98.8	75.5-127	0.837	7.02	
Ethylbenzene	2.03	0.050	mg/kg	2.00		101	77.7-125	0.580	7.83	
Total Xylenes	5.85	0.150	mg/kg	6.00		97.5	70.9-124	0.547	7.78	
Surrogate: 4-Bromofluorobenzene (PID)	0.0507		mg/kg	0.0500		101	72-148			

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: CBR -16 -001 Project Number: NONE GIVEN Project Manager: Bob Allen	Reported: 30-Jun-17 16:38
	Fax To: (575) 393-4388	

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
						,				
Batch 7062104 - General Prep - Organics										
Blank (7062104-BLK1)				Prepared &	& Analyzed:	21-Jun-17				
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	45.2		mg/kg	50.0		90.4	28.3-164			
Surrogate: 1-Chlorooctadecane	40.0		mg/kg	50.0		80.1	34.7-157			
LCS (7062104-BS1)				Prepared &	& Analyzed:	21-Jun-17				
GRO C6-C10	177	10.0	mg/kg	200		88.6	76.6-119			
DRO >C10-C28	182	10.0	mg/kg	200		90.9	81.4-124			
Total TPH C6-C28	359	10.0	mg/kg	400		89.8	79.4-121			
Surrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	28.3-164			
Surrogate: 1-Chlorooctadecane	43.6		mg/kg	50.0		87.1	34.7-157			
LCS Dup (7062104-BSD1)				Prepared &	& Analyzed:	21-Jun-17				
GRO C6-C10	183	10.0	mg/kg	200		91.4	76.6-119	3.03	7.94	
DRO >C10-C28	186	10.0	mg/kg	200		92.9	81.4-124	2.24	9.83	
Total TPH C6-C28	369	10.0	mg/kg	400		92.1	79.4-121	2.63	8.57	
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	28.3-164			
Surrogate: 1-Chlorooctadecane	42.0		mg/kg	50.0		84.0	34.7-157			
Batch 7062105 - General Prep - Organics										
Blank (7062105-BLK1)				Prepared &	& Analyzed:	21-Jun-17				
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	ma/ka							

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	45.9		mg/kg	50.0	91.8	28.3-164	
Surrogate: 1-Chlorooctadecane	48.1		mg/kg	50.0	96.1	34.7-157	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions 703 East Clinton Hobbs NM, 88240	Project: CBR -16 -001 Project Number: NONE GIVEN Project Manager: Bob Allen	Reported: 30-Jun-17 16:38
	Fax To: (575) 393-4388	

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 7062105 - General Prep - Organics										
LCS (7062105-BS1)	Prepared & Analyzed: 21-Jun-17									
GRO C6-C10	212	10.0	mg/kg	200		106	76.6-119			
DRO >C10-C28	225	10.0	mg/kg	200		112	81.4-124			
Total TPH C6-C28	437	10.0	mg/kg	400		109	79.4-121			
Surrogate: 1-Chlorooctane	50.7		mg/kg	50.0		101	28.3-164			
Surrogate: 1-Chlorooctadecane	50.0		mg/kg	50.0		100	34.7-157			
LCS Dup (7062105-BSD1)	Prepared & Analyzed: 21-Jun-17									
GRO C6-C10	215	10.0	mg/kg	200		107	76.6-119	1.15	7.94	
DRO >C10-C28	229	10.0	mg/kg	200		114	81.4-124	1.83	9.83	
Total TPH C6-C28	444	10.0	mg/kg	400		111	79.4-121	1.50	8.57	
Surrogate: 1-Chlorooctane	52.0		mg/kg	50.0		104	28.3-164			
Surrogate: 1-Chlorooctadecane	49.4		mg/kg	50.0		98.9	34.7-157			

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager


Analytical Results For:

Safety & Environmental Solutions 703 East Clinton	Project: CBR -16 -00 Project Number: NONE GIVE Project Manager: Bob Allen		
Hobbs NM, 88240	Fax To: (575) 393-4	1388	
	Tux Tu: (3/3) 3/3 -	1500	

Soluble (DI Water Extraction) - Quality Control

Green Analytical Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch B706232 - General Prep - Wet Chem										
Blank (B706232-BLK1)				Prepared: 2	27-Jun-17 A	nalyzed: 2	8-Jun-17			
Chloride	ND	10.0	mg/kg wet							
LCS (B706232-BS1)				Prepared: 2	27-Jun-17 A	nalyzed: 2	8-Jun-17			
Chloride	241	10.0	mg/kg wet	250		96.3	85-115			
LCS Dup (B706232-BSD1)				Prepared: 2	27-Jun-17 A	nalyzed: 2	8-Jun-17			
Chloride	243	10.0	mg/kg wet	250		97.1	85-115	0.798	20	
Batch B706234 - General Prep - Wet Chem										
Blank (B706234-BLK1)				Prepared: 2	27-Jun-17 A	nalyzed: 2	9-Jun-17			
Chloride	ND	10.0	mg/kg wet							
LCS (B706234-BS1)				Prepared: 27-Jun-17 Analyzed: 29-Jun-17						
Chloride	239	10.0	mg/kg wet	250		95.8	85-115			
LCS Dup (B706234-BSD1)				Prepared: 2	27-Jun-17 A	nalyzed: 2	9-Jun-17			
Chloride	240	10.0	mg/kg wet	250		96.2	85-115	0.396	20	

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

PLEASE NOTE: Lawy and any other cause where the advertised interruption. Both of use, in our or the advertised resonance of any each at a law is the profession of the advertised resonance of any each at a state and any of the advertised resonance of any each at a state at a law is the profession of any each at a state	HIOLIGU 3 4 4 4 4 4 4 4 4 4 4 4 4 4	Lab I.D. Sampler Name: FOR LAB USE OWLY Sample I.D. Sample I.D. NAME ON (C)OMP. ONTAINERS SOUNDWATER ASTEWATER	Project #: CBR - (6-00) Project Owner: Project Name:	Project Manager: Bob Allen Address: 703 East Clinton, PO Box 1613 Address: Hobbs State: NM City: Hobbs Fax #: 575 397-0510	01 E
By: No No Add'l Phone #: By: Fax Result: Yes No Add'l Phone #: By: Fax Result: Yes No Add'l Fax #:		7	#: Zip:	any: Same	P.O. #: ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: (57	Safety and Environmental Solutions	lutions	BILL TO		ANALYSIS REQUEST
Project Manager:	Bob Allen	P.O. #:			
703	703 Fast Clinton, PO Box 1613	Company:	Same		
		Zip: 88240 Attn:		0	
phone #: 575 3	-0510 F	393-4388 Address:		0	
	6-001		-	- NO	
		State:	21p.	15	
Project Location:		Phone #:		30	
Campler Name:		Fay	1	De	
FOR LAB USE ONLY		MATRIX PRESERV	RV. SAMPLING	RI	
Lab I.D.	Sample I.D.	B)RAB OR (C)OMF CONTAINERS ROUNDWATER WASTEWATER COIL DIL SLUDGE DTHER : ACID/BASE: CE / COOL		TPH CHHO	
HTDIGDI	1-2 14Fr	- # 0 GI W X S0 0 S1 0 A	06/20 (XX	
-	Ted 1st	X X 12		58	
12.04	1-4 372		06/20 (315 X	X	
134	A'D P'A		× 5961 02/90	XXX	
15-6	441 A-4	012	06/20 1460 ×	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
			inited to the amount paid by the client for the		
PLEASE NOTE: Liability an analyses. All claims includin	PLEASE NOTE: Liability and Damaget. Cardinal's subsity and cannot without any set of the strength of the stren	be deemed waived unless made in writing and received by C ding without limitation, business interruptions, loss of use, or I	ardinal within 30 bays and composition of the subsidiaries, oss of profits incurred by client, its subsidiaries,		
Relinquished By:	By: But of the performance of services hereupder By: Bb/2(1/) Tipgex 00	Ar by Cardinal, regardless of whether such caums source upon any or an and the second by:	Phone Result: Fax Result: REMARKS:	□ Yes □ No	Add'l Fax #:
Relinquished By:	Chapter .	8	CHECKED BY:		
Delivered By: Sampler - UPS	(Circle ^{fOne)} #75	4.9° Cove Interview	unitals		

C

Appendix B Site Photos Cross Border Resources Sunray State Tank Battery 5-31-2017













































































Cross Border Resources

Sunray State Tank Battery

11-9-17





















Appendix C C-141 **____**

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State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Initial Report Sinal Report ross Border Resources Contact Ross Pearson Final Report

Name of Company Cross Border Resources	Contact Ross Pearson
Address 2515 McKinney Avenue Suite 900	Telephone No. 214-871-0400 ext. 1019
Facility Name Sunray State Battery	Facility Type Tank Battery

Surface Owner New Mexico State Lands Mineral Owner New Mexico State Lands API No. 30-005-21036

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	16	8S	31E	1980'	North	1650'	West	Chaves

Latitude__33.6217____Longitude__-103.7831_____

NATURE OF RELEASE

Toma (Dalance Oil	Value CD-lass II-lasse	V-Lun D						
Type of Release Oil	Volume of Release Unknown		covered None					
Source of Release Tank Battery, Heater Treater	Date and Hour of Occurrence N/A	Date and H	our of Discovery 10/17/2014					
Was Immediate Notice Given?	If YES, To Whom?							
🔲 Yes 🛛 No 🗌 Not Required								
By Whom?	Date and Hour							
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.						
🗌 Yes 🖾 No								
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.*								
Rupture in the Heater-Treater Separator to the water tank. Line has been f	ixed. Spill area has been fenced in. Sa	imples have b	een taken. Please find attached					
report from Hall Environmental.								
Describe Area Affected and Cleanup Action Taken.*		~						
A 35' by 70' area has been affected with spilled oil. Plan to till contamina								
down to an acceptable level per NMOCD guidelines. Once soil reaches ac	cceptable hydrocarbon levels, plan to	seed the soil v	with native grasses.					
I hereby certify that the information given above is true and complete to t								
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The accentance of a $C_{-1}41$ report by the NMOCD marked as "Final Report" does not relieve the operator of liability								
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health								
should their operations have failed to adequately investigate and remediat	e contamination that pose a threat to g	ground water,	surface water, human health					
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other								
rederal, state, or local laws and/or regulations.	federal, state, or local laws and/or regulations.							
	<u>OIL CONSERV</u>	VATION I	DIVISION					
Signature: Maradal	4							
	Approved by Environmental Specialist:							
Printed Name: Alan Barksdale								
Title: Chairman	Approval Date:	Expiration D	ate:					
E-mail Address: alan@redmountainresources.com	Conditions of Approval:		Attached \Box					
		l						
Date: 4/13/2015 Phone: 214-871-0400								

* Attach Additional Sheets If Necessary