

Cross Border Resources
Sunray State Tank Battery

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

July 18, 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 Pearson	Red Mountain Resources, Inc.	817-996-4653	ross@redmountainresources.com
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 seasonal high water elevation of groundwater)	Less than 50 feet	20 points	
	50 feet to 99 feet	10 points	
	>100 feet	0 points	X
Wellhead Protection Area:			
(Less than 200 feet from a private domestic water source; or less than 1000 feet from all other water sources)	Yes	20 points	
	No	0 points	X
Distance to Surface Water:			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet	20 points	
	200 feet to 1000 feet	10 points	
	>1000 feet	0 points	X
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 (Cl-) (Method SM 4500Cl-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 @ 4'	6/29/16	<124 ppm	32.0
BH-2 @ 4'	6/29/16	<124 ppm	32.0
BH-3 @ 4'	07/01/16	1428 ppm	976
BH-3 @ 7'	6/29/16	8548 ppm	
BH-3 @ 8'	07/01/16	4484 ppm	
BH-3 @ 11'	6/29/16	4884 ppm	
BH-3 @ 12'	7/01/16	1636 ppm	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	872 ppm	976
BH-3 @ 24'	07/01/16	360 ppm	
BH-3 @ 27'	07/01/16		192
BH-4 Surface	6/29/16	<124	
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 packaged, preserved, transported to Hall Labs of Albuquerque, NM by Chain of Custody and analyzed for Chloride (Cl-) (Method SM 4500Cl-B). The results are presented in the table below:

Soil Sample Results: 11-21-17		
SAMPLE ID	Sample Date	Lab Results CHLORIDES
SP 1 Bottom 4ft	11/9/2017	150
SP-2 Bottom 4ft	11/9/2017	900
SP-3 North Wall	11/9/2017	ND
SP-4 West Wall	11/9/2017	120
SP-5 South Wall	11/9/2017	110
SP-6 East Wall	11/9/2017	65

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.

On June 25, 108, SESI personnel was onsite at the CBR Sunray Battery to obtain soil samples for testing. Representative soil samples were properly packaged, preserved, transported to Cardinal Labs of Hobbs, NM by Chain of Custody and analyzed for Chloride (Cl⁻) (Method SM 4500Cl-B). The results are presented in the table below:

Soil Sample Results: 06-25-18			
SAMPLE ID	Sample Date	Field Test CHLORIDES	Lab Results CHLORIDES
BH-1 Surface	6/25/2018	180	238
BH-1 @ 1'	6/25/2018	180	140
BH-1 @ 2'	6/25/2018	268	161
BH-1 @ 3'	6/25/2018	268	186
BH-2 Surface	6/25/2018	<128	18.6
BH-2 @ 1'	6/25/2018	<128	17.1
BH-2 @ 2'	6/25/2018	<128	15.4
BH-2 @ 3'	6/25/2018	<128	19.3

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



Sunray State Tank Battery

Survey

1996

© 2016 Google

Google earth

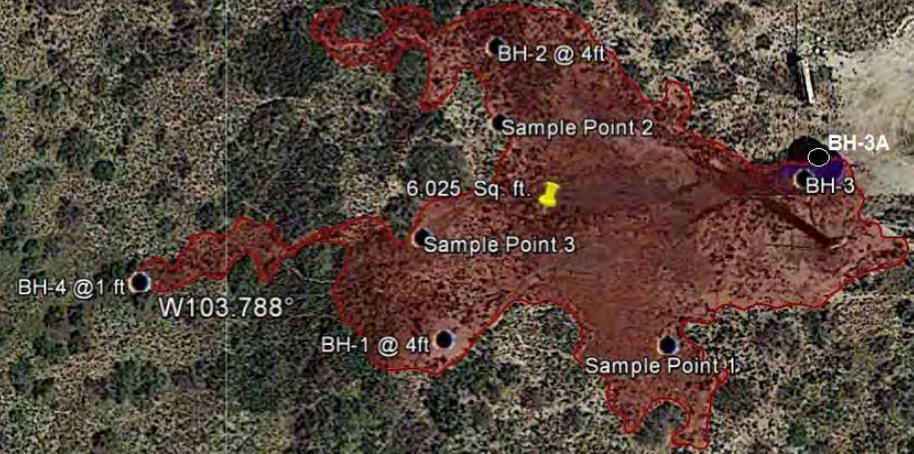
Imagery Date: 10/4/2014 33°37'17.32" N 103°47'13.83" W elev 4231 ft eye alt 4821 ft

**Figure 2
Site Plan**

Cross Border Resources
Sunray State Tank Battery
Sample Points Map

- Legend**
- @ 4ft
 - BH-4 @1 ft
 - BH-4 @1 ft
 - BH-4 @1 ft
 - Feature 1
 - Feature 2
 - Sample Point
 - Spill Area 1
 - United States
 - Untitled Polygon

Sunray State Tank



Survey
Google earth
© 2016 Google



Appendix A

Analytical Results



July 12, 2016

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 07/06/16 9:00.

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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	07/06/2016	Sampling Date:	06/29/2016
Reported:	07/12/2016	Sampling Type:	Soil
Project Name:	CBR-16-001	Sampling Condition:	** (See Notes)
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: BH-1 4' (H601503-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/07/2016	ND	432	108	400	3.77	

Sample ID: BH-2 4' (H601503-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/07/2016	ND	432	108	400	3.77	

Sample ID: BH-3 4' (H601503-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	07/07/2016	ND	432	108	400	3.77	

Sample ID: BH-3 12' (H601503-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	07/07/2016	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 07/06/2016
 Reported: 07/12/2016
 Project Name: CBR-16-001
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 07/01/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: BH-3 20' (H601503-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	07/07/2016	ND	432	108	400	3.77	

Sample ID: BH-3 27' (H601503-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/07/2016	ND	432	108	400	3.77	

Sample ID: BH-4 1' (H601503-07)

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	07/07/2016	ND	432	108	400	3.77	

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*=Accredited Analyte

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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



Celey D. Keene, Lab Director/Quality Manager

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions

Project Manager: Bob Allen

Address: 703 East Clinton, PO Box 1613

City: Hobbs State: NM Zip: 88240

Phone #: 575 397-0510 Fax #: 575 393-4388

Project #: CBR-16-001 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: Same

Attn:

Address:

City:

State: Zip:

Phone #:

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chlorides
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H1601503	BH-1	4FR	G 1						06/28	1050	X	
	BH-2	4FR	G 1						06/28	1115	X	
	BH-3	4FR	G 1						07/01	1000	X	
	BH-3	12FR	G 1						07/01	1045	X	
	BH-3	20FR	G 1						07/01	1130	X	
	BH-3	27FR	G 1						07/01	1230	X	
	BH-4	1FR	G 1						06/29	1300	X	

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Relinquished By: *Don Fury* Date: *07/01/06* Time: *8900*

Received By: *Joel Hendon*

Delivered By: (Circle One) UPS Bus Other

Sample Condition: Cool Intact Yes No

Checked By: *Don Fury*

Checked By: *Joel Hendon*

Remarks:

Remarks:

Phone Result: Yes No

Phone Result: Yes No

Additional Phone #:

Additional Phone #:

Additional Fax #:

Additional Fax #:



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/qa/lab_accred_certif.html.

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

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Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/24/2017
 Reported: 03/28/2017
 Project Name: CBR-16-001
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/20/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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

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	

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

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	

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

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	

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

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	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 03/24/2017
 Reported: 03/28/2017
 Project Name: CBR-16-001
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 03/20/2017
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

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

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	

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

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	

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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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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- *** Insufficient time to reach temperature.
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Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager

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/ga/lab_accred_certif.html.

Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TT -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
TT -2 1'	H701601-06	Soil	20-Jun-17 12:20	21-Jun-17 09:31
TT -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

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax 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
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Cardinal Laboratories
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)			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	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -1 3'
H701601-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			91.5 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.9 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	285		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -1 4'
H701601-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			91.5 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.9 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	113		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -1 9'
H701601-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.6 %	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	<10.0		10.0	mg/kg	1	7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctane</i>			93.7 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.1 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	26.7		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -1 14'
H701601-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %	72-148		7062201	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	
<i>Surrogate: 1-Chlorooctane</i>			93.9 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			77.5 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	27.0		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -2 1'
H701601-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			100 %	72-148		7062201	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	
<i>Surrogate: 1-Chlorooctane</i>			95.5 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			81.5 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	10.2		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -2 3'
H701601-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	
<i>Surrogate: 1-Chlorooctane</i>			90.8 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			83.3 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	12.0		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -2 4'
H701601-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	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	
<i>Surrogate: 1-Chlorooctane</i>			90.6 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.2 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	174		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -2 9'
H701601-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	
<i>Surrogate: 1-Chlorooctane</i>			90.6 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			78.0 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	82.3		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -2 14'
H701601-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	
<i>Surrogate: 1-Chlorooctane</i>			98.0 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.9 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	27.8		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -4 1'
H701601-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.9 %	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	
<i>Surrogate: 1-Chlorooctane</i>			90.5 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.0 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	<10.0		10.0	mg/kg wet	10	B706234	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -4 3'
H701601-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	
<i>Surrogate: 1-Chlorooctane</i>			92.6 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			82.4 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	16.6		10.0	mg/kg wet	10	B706234	JDA	30-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -4 4'
H701601-13 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			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	
<i>Surrogate: 1-Chlorooctane</i>			95.8 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			80.5 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	<10.0		10.0	mg/kg wet	10	B706232	JDA	29-Jun-17	EPA300.0	
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Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -4 9'
H701601-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			99.6 %	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	
<i>Surrogate: 1-Chlorooctane</i>			88.5 %	28.3-164		7062104	MS	22-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			76.1 %	34.7-157		7062104	MS	22-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	78.6		10.0	mg/kg wet	10	B706232	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

TT -4 14'
H701601-15 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			101 %	72-148		7062202	MS	23-Jun-17	8021B	

Petroleum Hydrocarbons by GC 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	
<i>Surrogate: 1-Chlorooctane</i>			91.6 %	28.3-164		7062105	MS	21-Jun-17	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			95.3 %	34.7-157		7062105	MS	21-Jun-17	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	<100		100	mg/kg wet	100	B706232	JDA	29-Jun-17	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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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							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>ND</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>98.6</i>	<i>72-148</i>			

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			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0495</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>98.9</i>	<i>72-148</i>			

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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0498</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>99.6</i>	<i>72-148</i>			

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							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0504</i>		<i>mg/kg</i>	<i>0.0500</i>		<i>101</i>	<i>72-148</i>			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 7062202 - Volatiles
LCS (7062202-BS1)

Prepared: 22-Jun-17 Analyzed: 23-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			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0515</i>		mg/kg	<i>0.0500</i>		<i>103</i>	<i>72-148</i>			

LCS Dup (7062202-BSD1)

Prepared: 22-Jun-17 Analyzed: 23-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	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	<i>0.0507</i>		mg/kg	<i>0.0500</i>		<i>101</i>	<i>72-148</i>			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

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
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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							
<i>Surrogate: 1-Chlorooctane</i>	45.2		mg/kg	50.0		90.4	28.3-164			
<i>Surrogate: 1-Chlorooctadecane</i>	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			
<i>Surrogate: 1-Chlorooctane</i>	48.8		mg/kg	50.0		97.6	28.3-164			
<i>Surrogate: 1-Chlorooctadecane</i>	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	
<i>Surrogate: 1-Chlorooctane</i>	50.7		mg/kg	50.0		101	28.3-164			
<i>Surrogate: 1-Chlorooctadecane</i>	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	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							
<i>Surrogate: 1-Chlorooctane</i>	45.9		mg/kg	50.0		91.8	28.3-164			
<i>Surrogate: 1-Chlorooctadecane</i>	48.1		mg/kg	50.0		96.1	34.7-157			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

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 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			
<i>Surrogate: 1-Chlorooctane</i>	<i>50.7</i>		mg/kg	<i>50.0</i>		<i>101</i>	<i>28.3-164</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>50.0</i>		mg/kg	<i>50.0</i>		<i>100</i>	<i>34.7-157</i>			

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	
<i>Surrogate: 1-Chlorooctane</i>	<i>52.0</i>		mg/kg	<i>50.0</i>		<i>104</i>	<i>28.3-164</i>			
<i>Surrogate: 1-Chlorooctadecane</i>	<i>49.4</i>		mg/kg	<i>50.0</i>		<i>98.9</i>	<i>34.7-157</i>			

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 30-Jun-17 16:38

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B706232 - General Prep - Wet Chem
Blank (B706232-BLK1)

Prepared: 27-Jun-17 Analyzed: 28-Jun-17

Chloride ND 10.0 mg/kg wet

LCS (B706232-BS1)

Prepared: 27-Jun-17 Analyzed: 28-Jun-17

Chloride 241 10.0 mg/kg wet 250 96.3 85-115

LCS Dup (B706232-BSD1)

Prepared: 27-Jun-17 Analyzed: 28-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: 27-Jun-17 Analyzed: 29-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: 27-Jun-17 Analyzed: 29-Jun-17

Chloride 240 10.0 mg/kg wet 250 96.2 85-115 0.396 20

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
 Project Manager: Bob Allen
 Address: 703 East Clinton, PO Box 1613
 City: Hobbs State: NM Zip: 88240
 Phone #: 575 397-0510 Fax #: 575 393-4388
 Project #: CR-16-001 Project Owner:

P.O. #: _____
 Company: Same
 Attn: _____
 Address: _____
 City: _____ State: _____ Zip: _____
 Phone #: _____
 Fax #: _____

Project Name: _____
 Project Location: _____

Sampler Name: _____
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H101602	1	1F	1	X	X	X	X	X	06/20	1115	BTEX	
	2	1F	1	X	X	X	X	X	06/20	1115	TPT	
	3	1F	1	X	X	X	X	X	06/20	1120	Soils	
	4	1F	1	X	X	X	X	X	06/20	1140	Chlorides	
	5	1F	1	X	X	X	X	X	06/20	1200	300	
	6	1F	1	X	X	X	X	X	06/20	1220		
	7	1F	1	X	X	X	X	X	06/20	1220		
	8	1F	1	X	X	X	X	X	06/20	1230		
	9	1F	1	X	X	X	X	X	06/20	1250		

Relinquished By: *[Signature]*
 Date: 06/20/17
 Time: 0800

Received By: *[Signature]*
 Date: 06/20/17
 Time: 0800

Relinquished By: *[Signature]*
 Date: 06/20/17
 Time: 0800

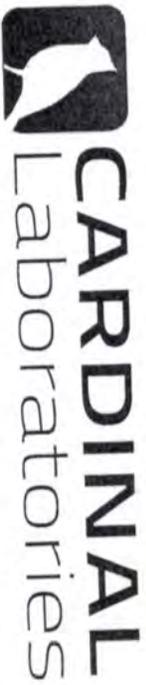
Received By: *[Signature]*
 Date: 06/20/17
 Time: 0800

Delivered By: (Circle One) *[Signature]*
 #75 4,902

Sample Condition: Cool Intact
 Yes No

Sampler - UPS - Bus - Other: _____

REMARKS:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: Safety and Environmental Solutions
 Project Manager: Bob Allen
 Address: 703 East Clinton, PO Box 1613
 City: Hobbs State: NM Zip: 88240
 Phone #: 575 397-0510 Fax #: 575 393-4388
 Project #: CR-16-001 Project Owner:
 Project Name:
 Project Location:
 Sampler Name:
 FOR LAB USE ONLY

P.O. #: Company: Same
 Attn: Address:
 City: State: Zip:
 Phone #: Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS REQUEST					
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :								
H7D1601	10	14	9	X						06/20	13:10	X	BTEX	X	TPH 8015	X	CHLORIDES 300
	11	11	9	X						06/20	13:15	X		X		X	
	12	11	9	X						06/20	13:15	X		X		X	
	13	11	9	X						06/20	13:30	X		X		X	
	14	11	9	X						06/20	13:45	X		X		X	
	15	11	9	X						06/20	14:00	X		X		X	

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Relinquished By: [Signature] Date: 06/20/17
 Received By: [Signature] Date: 06/20/17
 Relinquished By: [Signature] Date: 06/20/17
 Received By: [Signature] Date: 06/20/17

Delivered By: (Circle One) #75 4.90
 Sampler - UPS - Bus - Other: []
 Sample Condition: Cool [] Intact []
 Checked By: [Signature]

REMARKS:

Phone Result: [] Yes [] No Add'l Phone #:
 Fax Result: [] Yes [] No Add'l Fax #:



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 21, 2017

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Sunray CBR State 2

OrderNo.: 1711621

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 11/10/2017 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a white background.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-1 Bottom 4ft

Project: Sunray CBR State 2

Collection Date: 11/7/2017 12:05:00 PM

Lab ID: 1711621-001

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	150	30		mg/Kg	20	11/17/2017 11:11:43 AM	35045
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/15/2017 1:55:10 PM	34988
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2017 1:55:10 PM	34988
Surr: DNOP	96.7	70-130		%Rec	1	11/15/2017 1:55:10 PM	34988
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/14/2017 1:12:46 AM	34944
Surr: BFB	93.3	15-316		%Rec	1	11/14/2017 1:12:46 AM	34944
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/14/2017 1:12:46 AM	34944
Toluene	ND	0.047		mg/Kg	1	11/14/2017 1:12:46 AM	34944
Ethylbenzene	ND	0.047		mg/Kg	1	11/14/2017 1:12:46 AM	34944
Xylenes, Total	ND	0.094		mg/Kg	1	11/14/2017 1:12:46 AM	34944
Surr: 4-Bromofluorobenzene	92.3	80-120		%Rec	1	11/14/2017 1:12:46 AM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-2 Bottom 4ft

Project: Sunray CBR State 2

Collection Date: 11/7/2017 12:40:00 PM

Lab ID: 1711621-002

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	900	30		mg/Kg	20	11/17/2017 11:48:57 AM	35045
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	11/15/2017 2:17:23 PM	34988
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2017 2:17:23 PM	34988
Surr: DNOP	96.8	70-130		%Rec	1	11/15/2017 2:17:23 PM	34988
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2017 1:36:13 AM	34944
Surr: BFB	90.8	15-316		%Rec	1	11/14/2017 1:36:13 AM	34944
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/14/2017 1:36:13 AM	34944
Toluene	ND	0.048		mg/Kg	1	11/14/2017 1:36:13 AM	34944
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2017 1:36:13 AM	34944
Xylenes, Total	ND	0.097		mg/Kg	1	11/14/2017 1:36:13 AM	34944
Surr: 4-Bromofluorobenzene	91.2	80-120		%Rec	1	11/14/2017 1:36:13 AM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-3 NorthWall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 10:20:00 AM

Lab ID: 1711621-003

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	ND	30		mg/Kg	20	11/17/2017 12:01:21 PM	35045
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/15/2017 2:39:28 PM	34988
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2017 2:39:28 PM	34988
Surr: DNOP	93.9	70-130		%Rec	1	11/15/2017 2:39:28 PM	34988
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	11/14/2017 1:59:39 AM	34944
Surr: BFB	91.7	15-316		%Rec	1	11/14/2017 1:59:39 AM	34944
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	11/14/2017 1:59:39 AM	34944
Toluene	ND	0.049		mg/Kg	1	11/14/2017 1:59:39 AM	34944
Ethylbenzene	ND	0.049		mg/Kg	1	11/14/2017 1:59:39 AM	34944
Xylenes, Total	ND	0.098		mg/Kg	1	11/14/2017 1:59:39 AM	34944
Surr: 4-Bromofluorobenzene	92.9	80-120		%Rec	1	11/14/2017 1:59:39 AM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-4 WestWall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 11:35:00 AM

Lab ID: 1711621-004

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	120	30		mg/Kg	20	11/17/2017 12:13:46 PM	35045
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	11/15/2017 3:01:35 PM	34988
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	11/15/2017 3:01:35 PM	34988
Surr: DNOP	85.7	70-130		%Rec	1	11/15/2017 3:01:35 PM	34988
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2017 2:23:00 AM	34944
Surr: BFB	88.9	15-316		%Rec	1	11/14/2017 2:23:00 AM	34944
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/14/2017 2:23:00 AM	34944
Toluene	ND	0.048		mg/Kg	1	11/14/2017 2:23:00 AM	34944
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2017 2:23:00 AM	34944
Xylenes, Total	ND	0.097		mg/Kg	1	11/14/2017 2:23:00 AM	34944
Surr: 4-Bromofluorobenzene	89.0	80-120		%Rec	1	11/14/2017 2:23:00 AM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-5 SouthWall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 10:50:00 AM

Lab ID: 1711621-005

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	110	30		mg/Kg	20	11/17/2017 12:51:00 PM	35045
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	11/15/2017 3:23:36 PM	34988
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	11/15/2017 3:23:36 PM	34988
Surr: DNOP	83.3	70-130		%Rec	1	11/15/2017 3:23:36 PM	34988
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	11/14/2017 2:46:22 AM	34944
Surr: BFB	90.7	15-316		%Rec	1	11/14/2017 2:46:22 AM	34944
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.023		mg/Kg	1	11/14/2017 2:46:22 AM	34944
Toluene	ND	0.046		mg/Kg	1	11/14/2017 2:46:22 AM	34944
Ethylbenzene	ND	0.046		mg/Kg	1	11/14/2017 2:46:22 AM	34944
Xylenes, Total	ND	0.092		mg/Kg	1	11/14/2017 2:46:22 AM	34944
Surr: 4-Bromofluorobenzene	91.1	80-120		%Rec	1	11/14/2017 2:46:22 AM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1711621

Date Reported: 11/21/2017

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-6 Eastwall

Project: Sunray CBR State 2

Collection Date: 11/7/2017 11:25:00 AM

Lab ID: 1711621-006

Matrix: SOIL

Received Date: 11/10/2017 10:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CJS
Chloride	65	30		mg/Kg	20	11/17/2017 1:03:24 PM	35045
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	11/15/2017 3:45:43 PM	34988
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	11/15/2017 3:45:43 PM	34988
Surr: DNOP	79.9	70-130		%Rec	1	11/15/2017 3:45:43 PM	34988
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/14/2017 3:09:43 AM	34944
Surr: BFB	91.6	15-316		%Rec	1	11/14/2017 3:09:43 AM	34944
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	11/14/2017 3:09:43 AM	34944
Toluene	ND	0.048		mg/Kg	1	11/14/2017 3:09:43 AM	34944
Ethylbenzene	ND	0.048		mg/Kg	1	11/14/2017 3:09:43 AM	34944
Xylenes, Total	ND	0.097		mg/Kg	1	11/14/2017 3:09:43 AM	34944
Surr: 4-Bromofluorobenzene	92.6	80-120		%Rec	1	11/14/2017 3:09:43 AM	34944

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
	D Sample Diluted Due to Matrix	E Value above quantitation range
	H Holding times for preparation or analysis exceeded	J Analyte detected below quantitation limits
	ND Not Detected at the Reporting Limit	P Sample pH Not In Range
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

Sample ID	MB-35045	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	35045	RunNo:	47229					
Prep Date:	11/17/2017	Analysis Date:	11/17/2017	SeqNo:	1506472	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-35045	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	35045	RunNo:	47229					
Prep Date:	11/17/2017	Analysis Date:	11/17/2017	SeqNo:	1506473	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.5	90	110			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

Sample ID LCS-34988	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 34988		RunNo: 47144							
Prep Date: 11/14/2017	Analysis Date: 11/15/2017		SeqNo: 1504196				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.2	73.2	114			
Surr: DNOP	4.2		5.000		83.6	70	130			

Sample ID MB-34988	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 34988		RunNo: 47144							
Prep Date: 11/14/2017	Analysis Date: 11/15/2017		SeqNo: 1504197				Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.3		10.00		92.8	70	130			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| PQL Practical Quantitative Limit | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

Sample ID MB-34944	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 34944		RunNo: 47077							
Prep Date: 11/10/2017	Analysis Date: 11/13/2017		SeqNo: 1502179		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	920		1000		92.4	15	316			

Sample ID LCS-34944	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 34944		RunNo: 47077							
Prep Date: 11/10/2017	Analysis Date: 11/13/2017		SeqNo: 1502180		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	75.9	131			
Surr: BFB	1000		1000		104	15	316			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1711621

21-Nov-17

Client: Safety & Environmental Solutions

Project: Sunray CBR State 2

Sample ID MB-34944	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 34944		RunNo: 47077							
Prep Date: 11/10/2017	Analysis Date: 11/13/2017		SeqNo: 1502211		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.8	80	120			

Sample ID LCS-34944	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 34944		RunNo: 47077							
Prep Date: 11/10/2017	Analysis Date: 11/13/2017		SeqNo: 1502212		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	1.000	0	79.8	77.3	128			
Toluene	0.81	0.050	1.000	0	81.2	79.2	125			
Ethylbenzene	0.83	0.050	1.000	0	82.6	80.7	127			
Xylenes, Total	2.5	0.10	3.000	0	84.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.94		1.000		93.6	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified



Hall Environmental Analysis Laboratory
 4901 Hawkins NE
 Albuquerque, NM 87109
 TEL: 505-345-3975 FAX: 505-345-4107
 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 1711621

RcptNo: 1

Received By: Dennis Suazo 11/10/2017 10:00:00 AM

Completed By: Isaiah Ortiz 11/10/2017 12:37:52 PM

Reviewed By: *Sue 11/10/17*

IO

Chain of Custody

- 1. Custody seals intact on sample bottles? Yes No Not Present
- 2. Is Chain of Custody complete? Yes No Not Present
- 3. How was the sample delivered? Courier

Log In

- 4. Was an attempt made to cool the samples? Yes No NA
- 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- 6. Sample(s) in proper container(s)? Yes No
- 7. Sufficient sample volume for indicated test(s)? Yes No
- 8. Are samples (except VOA and ONG) properly preserved? Yes No
- 9. Was preservative added to bottles? Yes No NA
- 10. VOA vials have zero headspace? Yes No No VOA Vials
- 11. Were any sample containers received broken? Yes No
- 12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes No
- 13. Are matrices correctly identified on Chain of Custody? Yes No
- 14. Is it clear what analyses were requested? Yes No
- 15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.9	Good	Yes			

Chain-of-Custody Record

Client: Safety of Environment
Solution

Mailing Address: 203 E. CLINTON

Alabolas NW 88240

Phone #: 525-397-0570

email or Fax#:

QA/QC Package:

Standard Level 4 (Full Validation)

Accreditation:

NELAP Other

EDD (Type)

Project Manager:

Allen Rob

Sampler: Sage June

On Job: Yes No

Sample Temperature: 2.8 + 0.1 (CP) = 2.9

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
11/07	1205	S	SP1 Bottom 4ft	1	Fiw	1116 a1
11/07	1240	S	SP-2 Bottom 4ft	1		-002
11/07	1020	S	SP3 Northwell	1		-003
11/07	1035	S	SP4 Westwell	1		-004
11/07	1050	S	SP5 Southwell	1		-005
11/07	1125	S	SP6 Eastwell	1		-006
						007
						TMD

Date: 11/09/17 Time: 1500

Relinquished by: Sage June

Date: 11/09/17 Time: 1500

Relinquished by:

Received by: Dawson

Date: 11/17/17 Time: 1000

Received by:

Remarks:

Turn-Around Time:

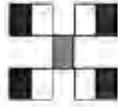
Standard Rush

Project Name: CBR

SUNRAY SITE - 2 BATT

Project #:

CBR-16-001



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX + MTBE + TMBs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAHs (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / 8082 PCBs	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
X	X	X	X	X	X	X	X	X	X	X	X

COURT 11/17
DPS

July 02, 2018

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 06/26/18 12:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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 accredited 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. Keene

Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 SURFACE	H801732-01	Soil	25-Jun-18 10:00	26-Jun-18 12:00
BH-1 1'	H801732-02	Soil	25-Jun-18 10:10	26-Jun-18 12:00
BH-1 2'	H801732-03	Soil	25-Jun-18 10:20	26-Jun-18 12:00
BH-1 3'	H801732-04	Soil	25-Jun-18 10:30	26-Jun-18 12:00
BH-2 SURFACE	H801732-05	Soil	25-Jun-18 10:45	26-Jun-18 12:00
BH-2 1'	H801732-06	Soil	25-Jun-18 10:55	26-Jun-18 12:00
BH-2 2'	H801732-07	Soil	25-Jun-18 11:10	26-Jun-18 12:00
BH-2 3'	H801732-08	Soil	25-Jun-18 11:20	26-Jun-18 12:00

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-1 SURFACE
H801732-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			89.7 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			79.8 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	238		50.0	mg/kg wet	50	B806254	JDA	28-Jun-18	EPA300.0	
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Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-1 1'
H801732-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			94.7 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			82.9 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	140		10.0	mg/kg wet	10	B806254	JDA	28-Jun-18	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-1 2'
H801732-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			100 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			88.0 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	161		10.0	mg/kg wet	10	B806254	JDA	28-Jun-18	EPA300.0	
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Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-1 3'
H801732-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			89.9 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			80.4 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	186		50.0	mg/kg wet	50	B806254	JDA	28-Jun-18	EPA300.0	
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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-2 SURFACE
H801732-05 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			103 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			90.5 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	18.6		10.0	mg/kg wet	10	B806254	JDA	28-Jun-18	EPA300.0	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-2 1'
H801732-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.7 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			77.2 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	17.1		10.0	mg/kg wet	10	B806254	JDA	28-Jun-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-2 2'
H801732-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			104 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			86.5 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			77.4 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	15.4		10.0	mg/kg wet	10	B806254	JDA	28-Jun-18	EPA300.0	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

BH-2 3'
H801732-08 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories
Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Toluene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	8062701	MS	27-Jun-18	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	8062701	MS	27-Jun-18	8021B	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			105 %	69.8-142		8062701	MS	27-Jun-18	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctane</i>			94.8 %	41-142		8062702	MS	27-Jun-18	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			83.6 %	37.6-147		8062702	MS	27-Jun-18	8015B	

Green Analytical Laboratories
Soluble (DI Water Extraction)

Chloride	19.3		10.0	mg/kg wet	10	B806254	JDA	28-Jun-18	EPA300.0	
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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

Volatile Organic Compounds by EPA Method 8021 - Quality Control
Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Notes
Batch 8062701 - Volatiles										
Blank (8062701-BLK1)				Prepared & Analyzed: 27-Jun-18						
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							
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	0.105		mg/kg	0.100		105	69.8-142			
LCS (8062701-BS1)				Prepared & Analyzed: 27-Jun-18						
Benzene	1.79	0.050	mg/kg	2.00		89.5	74.5-124			
Toluene	1.79	0.050	mg/kg	2.00		89.7	78.8-122			
Ethylbenzene	1.80	0.050	mg/kg	2.00		89.8	78.6-122			
Total Xylenes	5.65	0.150	mg/kg	6.00		94.1	79.7-123			
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	0.102		mg/kg	0.100		102	69.8-142			
LCS Dup (8062701-BSD1)				Prepared & Analyzed: 27-Jun-18						
Benzene	1.75	0.050	mg/kg	2.00		87.3	74.5-124	2.50	15.2	
Toluene	1.75	0.050	mg/kg	2.00		87.7	78.8-122	2.20	15.1	
Ethylbenzene	1.75	0.050	mg/kg	2.00		87.6	78.6-122	2.47	15.4	
Total Xylenes	5.48	0.150	mg/kg	6.00		91.4	79.7-123	2.93	15.2	
<i>Surrogate: 4-Bromofluorobenzene (PID)</i>	0.102		mg/kg	0.100		102	69.8-142			

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

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
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Batch 8062702 - General Prep - Organics
Blank (8062702-BLK1)

Prepared & Analyzed: 27-Jun-18

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Total TPH C6-C28	ND	10.0	mg/kg							
<i>Surrogate: 1-Chlorooctane</i>	41.3		mg/kg	50.0		82.7	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	37.2		mg/kg	50.0		74.4	37.6-147			

LCS (8062702-BS1)

Prepared & Analyzed: 27-Jun-18

GRO C6-C10	170	10.0	mg/kg	200		85.1	76.5-133			
DRO >C10-C28	174	10.0	mg/kg	200		86.9	72.9-138			
Total TPH C6-C28	344	10.0	mg/kg	400		86.0	78-132			
<i>Surrogate: 1-Chlorooctane</i>	39.8		mg/kg	50.0		79.6	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	37.4		mg/kg	50.0		74.7	37.6-147			

LCS Dup (8062702-BSD1)

Prepared & Analyzed: 27-Jun-18

GRO C6-C10	175	10.0	mg/kg	200		87.4	76.5-133	2.75	20.6	
DRO >C10-C28	179	10.0	mg/kg	200		89.7	72.9-138	3.11	20.6	
Total TPH C6-C28	354	10.0	mg/kg	400		88.6	78-132	2.93	18	
<i>Surrogate: 1-Chlorooctane</i>	38.2		mg/kg	50.0		76.5	41-142			
<i>Surrogate: 1-Chlorooctadecane</i>	36.5		mg/kg	50.0		73.0	37.6-147			

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 Safety & Environmental Solutions
 703 East Clinton
 Hobbs NM, 88240

 Project: CBR -16 -001
 Project Number: NONE GIVEN
 Project Manager: Bob Allen
 Fax To: (575) 393-4388

 Reported:
 02-Jul-18 13:06

Soluble (DI Water Extraction) - Quality Control
Green Analytical Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B806254 - General Prep - Wet Chem
Blank (B806254-BLK1)

Prepared & Analyzed: 28-Jun-18

Chloride ND 10.0 mg/kg wet

LCS (B806254-BS1)

Prepared & Analyzed: 28-Jun-18

Chloride 247 10.0 mg/kg wet 250 98.7 85-115

LCS Dup (B806254-BSD1)

Prepared & Analyzed: 28-Jun-18

Chloride 247 10.0 mg/kg wet 250 98.9 85-115 0.158 20

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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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Appendix B Site Photos

**Cross Border Resources
Sunray State Tank Battery
5-31-2017**















**Cross Border Resources
Sunray State Tank Battery**

11-9-17





Cross Border Resources
Sunray State Tank Battery
6-20-2018





Appendix C
C-141

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 87505

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 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

Type of Release Oil	Volume of Release Unknown	Volume Recovered None
Source of Release Tank Battery, Heater Treater	Date and Hour of Occurrence N/A	Date and Hour of Discovery 10/17/2014
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

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 fixed. Spill area has been fenced in. Samples have been 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 contaminated soil with micro-blaze and water affected area until hydrocarbon levels get down to an acceptable level per NMOCD guidelines. Once soil reaches acceptable hydrocarbon levels, plan to seed the soil with native grasses.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Alan Barksdale	Approved by Environmental Specialist:	
Title: Chairman	Approval Date:	Expiration Date:
E-mail Address: alan@redmountainresources.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/13/2015 Phone: 214-871-0400		

* Attach Additional Sheets If Necessary