

REVIEWED

By Kristen Lynch at 1:51 pm, Oct 18, 2016

NMOCD
APPROVED

Gandy Corporation

Nuckols Battery 24 #1

Closure

**Section 24, Township 7S, Range 31E
Chaves County, New Mexico**

30-005-20736

October 12, 2016



Prepared for:

**Cross Border Resources
14282 Gillis Rd.,
Farmers Branch, TX 14282**

By:

**Safety & Environmental Solutions, Inc.
703 East Clinton Street
Hobbs, New Mexico 88240
(575) 397-0510**

I. Company Contacts

Representative	Company	Telephone	E-mail
Ross Pearson	Red Mountain Resources	469-995-0425	ross@redmountainresources.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

II. Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Red Mountain Resources to assess a spill area on the Nuckols Battery, concerning a One Hundred and Sixty (160) bbl. release comprised of oil and produced water. This site is situated in Chaves County, Section 24, Township 7S, and Range 31E.

According to the C-141: Vandals opened the load line valves on the oil and water tanks allowing all of the contained fluids to impact ground surface. The spill area was mapped, using a Trimble Juno 3B. Whereby, the total area of impact was estimated to be 4,441 sq. ft. The NMOCD and BLM respectively, were notified on March 20, 2016, and the C-141 filed and stamped by the NMOCD on March 24, 2016 assigning this event number **1RP-4222** (C-141).

III. Surface and Ground Water

There is no record of groundwater in the immediate vicinity of the site location. Further research of the New Mexico Office of the State Engineer records indicates the average depth to groundwater for the area to be 238' bgs.

IV. Work Performed

On April 11, 2016 SESI personnel together with equipment and personnel from Gandy Corporation were onsite to photograph, assess and map the spill area. The backhoe removed all heavy hydro carbon staining. SESI personnel were present to conduct simultaneous field testing to perform confirmation sampling. Field tests were conducted of the representative soil samples. Approximately 35 yds of impacted soil were removed and disposed of at an NMOCD approved facility. The results of field tests are presented in the table below.

Soil Sample Results: Field Tests 04-11-16		
SAMPLE ID	TPH	CHLORIDES
TT-1 @ 6"	06 ppm	156 ppm
TT-1 @ 1.5'	No test	<108 ppm
TT-2 @ 6"	06 ppm	<108 ppm
TT-2 @ 1.5'	No test	<108 ppm

Based on the request of Mr. Keyes of the NMOCD, SESI personnel returned to the site to install an auger hole to a depth of 1' bgs., slightly to the Northwest of the impacted area ([Site Map](#)). A representative soil sample was taken from the surface and at a depth of 1' bgs., properly packaged, preserved and transported to Cardinal Laboratories of Hobbs, NM by chain of custody, and analyzed for Chloride (Method SM4500Cl-B). The results are recapped in the following table:

Lab Confirmation Sample Date 07-01-16	
SAMPLE ID	CHLORIDES
AH-1 Surface	<16.0 mg/kg
AH-1 1'	<16.0 mg/kg

On August 18, 2016, SESI sent via an email to Jamie Keyes of the NMOCD a site map with proposed sampling points that would be an effective delineation. On this same said date, the proposed sampling diagram was approved.

On August 19, 2016, SESI personnel revisited the site in order to retrieve representative soil samples from the referenced locations on the approved site map. The soil samples were properly packaged, preserved, and transported via chain of custody to Cardinal Labs of Hobbs, NM for analyses of BTEX (Benzene Toluene Ethylbenzene Total Xylenes)(Method 8021B), Chlorides (Method SM4500Cl-B), and TPH (Total Petroleum Hydrocarbons) (Method 8015M). Displayed below is a table re-capping the results:

Soil Sample Results: Cardinal Laboratories 8-19-16							
SAMPLE ID	Benzene	Toluene	Ethylbenzene	Total Xylenes	Chlorides	TPH GRO	TPH DRO
AH-2 Surface	<0.050	<0.050	<0.050	<0.150	<16.0	<200	13500
AH-2 1'	<0.050	<0.050	<0.050	<0.150	32.0	<50.0	742
AH-3 1'	<0.050	<0.050	<0.050	<0.150	192	<10.0	65.8
AH-4 Surface	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	37.9
AH-4 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<200	1750
AH-5 1'	<0.050	<0.050	<0.050	<0.150	32.0	<10.0	37.4
AH-6 Surface	<0.050	<0.050	0.094	<0.150	<16.0	<50.0	1930
AH-6 1'	<0.050	<0.050	<0.050	<0.150	96.0	<10.0	19.2
AH-7 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	<10.0
AH-8 Surface	<0.050	<0.050	<0.050	<0.150	176	<10.0	234
AH-8 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	<10.0
AH-9 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	<10.0
AH-10 Surface	<0.050	<0.050	<0.050	<0.150	576	<50.0	1150
AH-10 1'	<0.050	<0.050	<0.050	<0.150	144	<10.0	<10.0
AH-11 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	2300
AH-12 Surface	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	<10.0
AH-12 1'	<0.050	<0.050	<0.050	<0.150	128	<10.0	922
AH-13 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	648
AH-14 Surface	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	44.4
AH-14 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	4270
AH-15 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<200	3110
AH-16 Surface	<0.050	<0.050	<0.050	<0.150	<16.0	<50.0	1130
AH-16 1'	<0.050	<0.050	<0.050	<0.150	<16.0	<10.0	<10.0

On September 20, 2016, based on the aforementioned results and at the request of NMOCD representatives, SESI submitted the revised site map with the additional sampling point positions that were included in the Remediation Plan. The NMOCD approved this plan with the conditions that confirmation samples be taken at the bottom of excavation, horizontal delineation be achieved, and the NMOCD be notified prior to all sampling events.

On September 22, 2016, SESI personnel together with equipment and the operator with Gandy Corp. were onsite to begin remediation activities. The backhoe began excavation at the west side of the battery and the south side of the tanks. SESI personnel conducted field testing for TPH and Chlorides intermittently during excavation for confirmation. All samples were properly packed, preserved and transported to Cardinal Laboratories of Hobbs, NM to be analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method SM4500CI-B). Below is a table re-capping the analyses:

SAMPLE ID	Soil Sample Results: Cardinal Laboratories 9-23-16							
	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO
SP-2 BOTTOM 4'	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	<10.0	<10.0
SP-23 BOTTOM 8'	<0.050	<0.050	<0.050	<0.150	<0.300	192	<10.0	<10.0
SP-25 SOUTH WALL	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	<10.0	<10.0
SP-29 SOUTH WALL	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	<10.0	<10.0
SP-20 BOTTOM 8'	<0.050	<0.050	<0.050	<0.150	<0.300	176	<10.0	<10.0
SP-21 BOTTOM 7'	<0.050	<0.050	<0.050	<0.150	<0.300	192	<10.0	<10.0
SP-24 BOTTOM 8'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
SP-34 NORTH WALL	<0.050	<0.050	<0.050	<0.150	<0.300	64.0	<10.0	<10.0
SP-36 NORTH WALL	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	<10.0	<10.0

On September 30, 2016, SESI personnel together with equipment and the operator with Gandy Corp. were onsite to continue excavation of the north and west side of the location. The JSA was completed and excavation photos were taken. Soil samples were obtained from the bottom and the East and West walls. All samples were properly packed, preserved and transported to Cardinal Laboratories of Hobbs, NM to be analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method SM4500CI-B).

On October 3, 2016, SESI personnel together with equipment and the operator with Gandy Corp. were onsite to continue loading and hauling spoils to be transported for disposal. SESI completed delineation and soil sampling for the north side of the excavation, All soil samples obtained were under 1000 ppm for Chlorides and under 5000 ppm for TPH. All samples were properly packed, preserved and transported to Cardinal Laboratories of Hobbs, NM to be analyzed for TPH(total petroleum hydrocarbons)(Method 8015M), and Chlorides (Method SM4500CI-B). Below is a table re-capping the analyses:

SAMPLE ID	Soil Sample Results: Cardinal Laboratories 9-23-16							
	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chlorides	TPH GRO	TPH DRO
SP-39 WEST WALL	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	29.7
SP-40 WEST WALL	<0.050	<0.050	<0.050	<0.150	<0.300	624	<10.0	<10.0
SP-46 BOTTOM 1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
SP-44 BOTTOM 6'	<0.050	<0.050	<0.050	<0.150	<0.300	304	<10.0	<10.0
SP-42 BOTTOM 1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	63.8
SP-48 BOTTOM 1'	<0.050	<0.050	<0.050	<0.150	<0.300	48.0	<10.0	<10.0
SP-49 EAST WALL	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
SP-52 BOTTOM 1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	<10.0	<10.0
SP-54 BOTTOM 1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	32.0	<10.0	<10.0
SP-56 BOTTOM 1.5'	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0	<10.0	<10.0
SP-57 NORTH WALL	<0.050	<0.050	<0.050	<0.150	<0.300	160	<10.0	54.8
SP-59 NORTH WALL	<0.050	<0.050	<0.050	<0.150	<0.300	208	<10.0	<10.0
SP-60 EAST WALL	<0.050	<0.050	<0.050	<0.150	<0.300	208	<10.0	<10.0

VII. Request for Closure

The results of the confirmation sampling indicate that all soils impacted above 5000 ppm TPH and 1000 ppm Chlorides were removed and transported to an approved NMOCD facility for disposal. The area was backfilled with clean soil and returned to grade. Red Mountain Resources respectfully submits this closure report for your consideration, and requests that no further action be required.

VIII. Figures & Forms

Vicinity Map
Site Plan
C-141
Groundwater
Analytical Results
Photo Documentation

Figure 1

Vicinity Map



Nuckols
Tank 3

Moon Ranch Rd

34

Survey


1996

© 2016 Google

Google earth

Imagery Date: 9/30/2014 33°41'20.72" N 103°44'02.09" W elev 4390 ft eye alt 12605 ft

Figure 2
Site Plan

 **Nuckols**



TT-1 @ 6" = 156 ppm
TT-1 @ 1.5' = <108 ppm




TT-2 @ 6" = <108 ppm
TT-2 @ 1.5 = <108 ppm

Survey

© 2016 Google

Google earth

 1996

Imagery Date: 9/30/2014 33°41'12.70" N 103°44'00.77" W elev 4391 ft eye alt 4607 ft 

Appendix A

Final 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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

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: 14282 Gillis Rd., Farmers Branch Tx 14282	Telephone No. 469-995-0425
Facility Name: Nuckols Battery	Facility Type: Tank Battery
Surface Owner: Jake, Maureen Howards	Mineral Owner: Nuckols et al
API No. 30-005-20736	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	24	7 S	31E	660'	South	660'	West	Chaves

Latitude 33.6868973 Longitude -103.7333984

NATURE OF RELEASE

Type of Release: Oil and Produced Water	Volume of Release: 160 Bbls	Volume Recovered: None
Source of Release: Load Lines	Date and Hour of Occurrence 3/18/2016, Unknown	Date and Hour of Discovery 3/19/2016 10:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Baldo Vasquez, Chaves County Sheriff Kellie Jones, NMOCD, Harley Davis BLM	
By Whom? Joseph Urban, Ross Pearson	Date and Hour: 3/19/2016, 11:00 AM Sheriff, and 3/20/2016, 2:24 PM	
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.*

Vandals opened the load line valves on the oil and water tanks allowing entire fluid to be drained onto location. Not sure of the exact time of release. Fluids had impacted ground surface. Contacted sheriff first to establish a case for the criminal activity.

Describe Area Affected and Cleanup Action Taken.*

Approximately 35 Bbls of oil were released from the oil load lines impacting an area of approximately 4,441 sq. ft. The primary area impacted remained on the pad. SESI has remediated the site in accordance with NMOCD and BLM guidelines.

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.

OIL CONSERVATION DIVISION

Signature: *Ross Pearson*

Printed Name: *Ross Pearson*

Title: *V.P. Operations*

E-mail Address: *ross@redmountainresources.com*

Date: *8/11/16* Phone: *969-995*

Approved by Environmental Specialist: *Kristen Lynch*

Approval Date: *10/18/2016*

Expiration Date: *N/A*

Conditions of Approval: *N/A*

Attached ☐
IRP 4222

* Attach Additional Sheets If Necessary

40425

Appendix B

Groundwater



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
RA 11245 POD1			CH	3	3	1	20	07S	31E	610806	3728777*	220	180	40
RA 11251 POD1			CH	1	2	4	10	07S	31E	615240	3731841*	210	190	20
RA 11252 POD1			CH	2	4	2	10	07S	31E	615436	3732243*	210		
RA 11255 POD1			CH	2	4	4	04	07S	31E	613805	3733024*	450	350	100
RA 11256 POD1			CH	2	4	4	04	07S	31E	613805	3733024*	450	350	100
RA 11260 POD1			CH	1	2	3	26	07S	31E	616038	3727739	158	120	38

Average Depth to Water: **238 feet**

Minimum Depth: **120 feet**

Maximum Depth: **350 feet**

Record Count: 6

PLSS Search:

Township: 07S

Range: 31E

*UTM location was derived from PLSS - see Help

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

Appendix C

Analytical Results

July 12, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: GAN-16-002

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,



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: GAN-16-002
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: AH-1 SURFACE (H601505-01)

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	07/07/2016	ND	416	104	400	0.00		

Sample ID: AH-1 1' (H601505-02)

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	07/07/2016	ND	416	104	400	0.00	

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

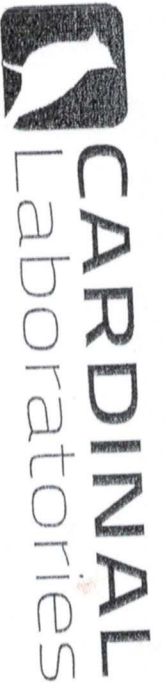
Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

22

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

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 #: 64M-16-002 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.

H1601505

1 AH-1 Surface
2 AH-1 (R)

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

07/01 1600
07/01 1605

Ch boundary

Reimposed By:

Date: 07/01/16

Received By:

Heidi Shender

Reimposed By:

Date: 0800

Received By:

Delivered By: (Circle One)

25.40

Sample Condition
Cool ☐ Intact ☒
Yes ☐ No ☒

CHECKED BY:

Sampler - UPS - Bus - Other:

76

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

August 30, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 08/23/16 8:40.

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

Cardinal Laboratories is 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,



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: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-2 SURFACE (H601887-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	13500	200	08/24/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 71.1 % 35-147

Surrogate: 1-Chlorooctadecane 311 % 28-171

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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: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-2 1' (H601887-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	742	50.0	08/24/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 148 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-3 1' (H601887-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	65.8	10.0	08/24/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 118 % 28-171

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 Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-4 SURFACE (H601887-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	37.9	10.0	08/24/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 90.4 % 35-147

Surrogate: 1-Chlorooctadecane 94.0 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-4 1' (H601887-05)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	1750	200	08/24/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 50.6 % 35-147

Surrogate: 1-Chlorooctadecane 188 % 28-171

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 Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-5 1' (H601887-06)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	214	107	200	0.125	
DRO >C10-C28	37.4	10.0	08/24/2016	ND	217	108	200	4.78	

Surrogate: 1-Chlorooctane 98.0 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-6 SURFACE (H601887-07)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	0.094	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	1930	50.0	08/24/2016	ND	237	119	200	0.708	QM-07, QR-03

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 135 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-6 1' (H601887-08)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	19.2	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 112 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-7 1' (H601887-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 94.4 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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 Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-8 SURFACE (H601887-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	234	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 97.7 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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 Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-8 1' (H601887-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 96.2 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Analytical Results For:

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

 Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-9 1' (H601887-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTEX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 94.8 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-10 SURFACE (H601887-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.51	
Toluene*	<0.050	0.050	08/24/2016	ND	2.37	118	2.00	1.94	
Ethylbenzene*	<0.050	0.050	08/24/2016	ND	2.22	111	2.00	2.56	
Total Xylenes*	<0.150	0.150	08/24/2016	ND	6.71	112	6.00	2.61	
Total BTX	<0.300	0.300	08/24/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	1150	50.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 83.3 % 35-147

Surrogate: 1-Chlorooctadecane 155 % 28-171

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Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-10 1' (H601887-14)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 93.4 % 35-147

Surrogate: 1-Chlorooctadecane 103 % 28-171

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 Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-11 1' (H601887-15)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 112 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	2300	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 171 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-12 SURFACE (H601887-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	<10.0	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 99.2 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-12 1' (H601887-17)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	922	10.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 111 % 35-147

Surrogate: 1-Chlorooctadecane 167 % 28-171

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 Received: 08/23/2016
 Reported: 08/30/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 08/19/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-13 1' (H601887-18)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	217	109	200	0.743	
DRO >C10-C28	648	10.0	08/25/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-14 SURFACE (H601887-19)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	217	109	200	0.743	
DRO >C10-C28	44.4	10.0	08/25/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Received: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-14 1' (H601887-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	217	109	200	0.743	
DRO >C10-C28	4270	10.0	08/25/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 232 % 28-171

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: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-15 1' (H601887-21)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/26/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/26/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/26/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/26/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/26/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<200	200	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	3110	200	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 54.9 % 35-147

Surrogate: 1-Chlorooctadecane 248 % 28-171

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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: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-16 SURFACE (H601887-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/26/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTEx	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	08/24/2016	ND	217	109	200	0.743	
DRO >C10-C28	1130	50.0	08/24/2016	ND	237	119	200	0.708	

Surrogate: 1-Chlorooctane 81.2 % 35-147

Surrogate: 1-Chlorooctadecane 165 % 28-171

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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: 08/23/2016
Reported: 08/30/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/19/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-16 1' (H601887-23)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/25/2016	ND	2.29	115	2.00	0.411	
Toluene*	<0.050	0.050	08/25/2016	ND	2.34	117	2.00	0.253	
Ethylbenzene*	<0.050	0.050	08/25/2016	ND	2.24	112	2.00	0.280	
Total Xylenes*	<0.150	0.150	08/25/2016	ND	6.80	113	6.00	0.295	
Total BTX	<0.300	0.300	08/25/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/24/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/25/2016	ND	195	97.5	200	0.460	
DRO >C10-C28	<10.0	10.0	08/25/2016	ND	210	105	200	1.75	

Surrogate: 1-Chlorooctane 83.4 % 35-147

Surrogate: 1-Chlorooctadecane 86.7 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Safety and Environmental Solutions		P.O. #:		BILL TO												ANALYSIS REQUEST											
Project Manager: Bob Allen		Company: Same																									
Address: 703 East Clinton, PO Box 1613		Attn:																									
City: Hobbs		Address:																									
Phone #: 575 397-0510		City:																									
Fax #: 575 393-4388		State:																									
Project #: 600-16-003		Project Owner:																									
Project Name: RMR-16-002		State:																									
Project Location:		Phone #:																									
Sampler Name:		Fax #:																									
FOR LAB USE ONLY																											
Lab I.D.		Sample I.D.																									
H1601887		(G)RAB OR (C)OMP.																									
		# CONTAINERS																									
		GROUNDWATER																									
		WASTEWATER																									
		SOIL																									
		OIL																									
		SLUDGE																									
		OTHER :																									
		ACID/BASE:																									
		ICE / COOL																									
		OTHER :																									
		DATE																									
		TIME																									
11		11/19																									
12		12/15																									
13		12/30																									
14		12/30																									
15		13/00																									
16		13/20																									
17		13/25																									
18		13/45																									
19		14/05																									
20		14/10																									

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Relinquished By:

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Relinquished By:

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

Relinquished By:

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Relinquished By:

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Delivered By: (Circle One)

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Relinquished By:

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Delivered By: (Circle One)

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Relinquished By:

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Sampler - UPS - Bus - Other:

Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40

Relinquished By:

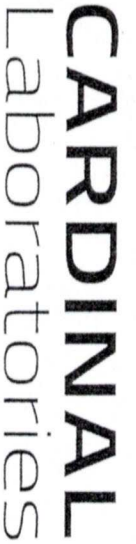
Date: 8/23/16

Time: 3:40

Received By:

Date: 8/23/16

Time: 3:40



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

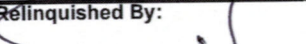

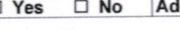

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

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Relinquished By: 		Date: 09/02/16	Received By: 	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By:		Time: 1630	Received By:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)		Time:	Sample Condition	REMARKS: 	
Sampler - UPS - Bus - Other:		3.3°C	Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> No <input type="checkbox"/> No	CHECKED BY: (Initials) 	

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

September 06, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 09/02/16 16:30.

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". The signature is written in a cursive, flowing style.

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: 09/02/2016
Reported: 09/06/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/02/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-2 2.5' (H601979-01)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	09/06/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	

Surrogate: 1-Chlorooctane 97.3 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

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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: 09/02/2016
 Reported: 09/06/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/02/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-4 2.5' (H601979-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEx	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/06/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	

Surrogate: 1-Chlorooctane 93.0 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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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: 09/02/2016
 Reported: 09/06/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/02/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: AH-13 3' (H601979-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTX	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.9 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	

Surrogate: 1-Chlorooctane 98.5 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

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*=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: 09/02/2016
Reported: 09/06/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/02/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: AH-14 2.5' (H601979-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/06/2016	ND	2.13	107	2.00	0.929	
Toluene*	<0.050	0.050	09/06/2016	ND	2.18	109	2.00	1.23	
Ethylbenzene*	<0.050	0.050	09/06/2016	ND	2.11	105	2.00	0.932	
Total Xylenes*	<0.150	0.150	09/06/2016	ND	6.41	107	6.00	0.744	
Total BTEx	<0.300	0.300	09/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	09/06/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/02/2016	ND	203	102	200	3.23	
DRO >C10-C28	<10.0	10.0	09/02/2016	ND	223	111	200	3.64	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 116 % 28-171

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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

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: **SESI**

Project Manager:

Address:

City:

Phone #:

Project #:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

BILL TO

ANALYSIS REQUEST

P.O. #:

Company:

Attn:

Address:

City:

State:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Lab I.D.

Sample I.D.

H601979

Att-2 2.5 ft
Att-4 2.5 ft
Att-13 3 ft
Att-14 2.5 ft

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

09/02 1230
09/02 1305
09/02 1400
09/02 1340

TPH 8015
BTLX
Ch Gondes

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Relinquished By:

Don Jorg

Date: 08/02/16

Received By:

Time: 1630

Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

3.3°C

Sample Condition

Cool ☒ Intact ☒

CHECKED BY:

(Initials)

REMARKS:

Phone Result:

Fax Result:

Phone Result:

Fax Result:

Phone Result:

Fax Result:

Rush

September 09, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 09/08/16 16:30.

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,



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: 09/08/2016
Reported: 09/09/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/08/2016
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Angela Cabrera

Sample ID: SP-17 7' (H602027-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2016	ND	2.15	107	2.00	2.29	
Toluene*	<0.050	0.050	09/09/2016	ND	2.19	110	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/09/2016	ND	2.12	106	2.00	2.48	
Total Xylenes*	<0.150	0.150	09/09/2016	ND	6.43	107	6.00	2.47	
Total BTEX	<0.300	0.300	09/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	09/09/2016	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2016	ND	184	92.1	200	17.6	
DRO >C10-C28	<10.0	10.0	09/09/2016	ND	196	97.9	200	18.2	

Surrogate: 1-Chlorooctane 96.9 % 35-147

Surrogate: 1-Chlorooctadecane 102 % 28-171

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: 09/08/2016
 Reported: 09/09/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/08/2016
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Angela Cabrera

Sample ID: SP-17 9' (H602027-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2016	ND	2.15	107	2.00	2.29	
Toluene*	<0.050	0.050	09/09/2016	ND	2.19	110	2.00	2.59	
Ethylbenzene*	<0.050	0.050	09/09/2016	ND	2.12	106	2.00	2.48	
Total Xylenes*	<0.150	0.150	09/09/2016	ND	6.43	107	6.00	2.47	
Total BTX	<0.300	0.300	09/09/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/09/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/09/2016	ND	184	92.1	200	17.6	
DRO >C10-C28	<10.0	10.0	09/09/2016	ND	196	97.9	200	18.2	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 113 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

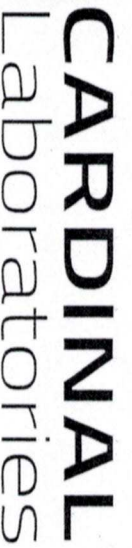
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Celey D. Keene, Lab Director/Quality Manager



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

Page 5 of 5

October 04, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 09/29/16 8:10.

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,



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: 09/29/2016
Reported: 10/04/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/23/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-22 BOTTOM 4' (H602182-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.05	102	2.00	1.83	
Toluene*	<0.050	0.050	09/30/2016	ND	2.08	104	2.00	2.51	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.00	100	2.00	1.83	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.01	100	6.00	2.00	
Total BTEX	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2016	ND	206	103	200	0.630	
DRO >C10-C28	<10.0	10.0	09/30/2016	ND	209	105	200	1.21	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 119 % 28-171

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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: 09/29/2016
 Reported: 10/04/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/23/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-23 BOTTOM 8' (H602182-02)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.05	102	2.00	1.83	
Toluene*	<0.050	0.050	09/30/2016	ND	2.08	104	2.00	2.51	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.00	100	2.00	1.83	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.01	100	6.00	2.00	
Total BTX	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2016	ND	206	103	200	0.630	
DRO >C10-C28	<10.0	10.0	09/30/2016	ND	209	105	200	1.21	

Surrogate: 1-Chlorooctane 96.9 % 35-147

Surrogate: 1-Chlorooctadecane 104 % 28-171

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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: 09/29/2016
Reported: 10/04/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/23/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-25 SOUTH WALL (H602182-03)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.05	102	2.00	1.83	
Toluene*	<0.050	0.050	09/30/2016	ND	2.08	104	2.00	2.51	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.00	100	2.00	1.83	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.01	100	6.00	2.00	
Total BTX	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2016	ND	206	103	200	0.630	
DRO >C10-C28	<10.0	10.0	09/30/2016	ND	209	105	200	1.21	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 94.7 % 28-171

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: 09/29/2016
 Reported: 10/04/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/23/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-29 SOUTH WALL (H602182-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.05	102	2.00	1.83	
Toluene*	<0.050	0.050	09/30/2016	ND	2.08	104	2.00	2.51	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.00	100	2.00	1.83	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.01	100	6.00	2.00	
Total BTEx	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2016	ND	206	103	200	0.630	
DRO >C10-C28	<10.0	10.0	09/30/2016	ND	209	105	200	1.21	

Surrogate: 1-Chlorooctane 88.7 % 35-147

Surrogate: 1-Chlorooctadecane 92.2 % 28-171

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: 09/29/2016
Reported: 10/04/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-20 BOTTOM 8' (H602182-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.05	102	2.00	1.83	
Toluene*	<0.050	0.050	09/30/2016	ND	2.08	104	2.00	2.51	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.00	100	2.00	1.83	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.01	100	6.00	2.00	
Total BTEx	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2016	ND	206	103	200	0.630	
DRO >C10-C28	<10.0	10.0	09/30/2016	ND	209	105	200	1.21	

Surrogate: 1-Chlorooctane 105 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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

Received: 09/29/2016
Reported: 10/04/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-21 BOTTOM 7' (H602182-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEx	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2016	ND	206	103	200	0.630	
DRO >C10-C28	<10.0	10.0	09/30/2016	ND	209	105	200	1.21	

Surrogate: 1-Chlorooctane 88.0 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

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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: 09/29/2016
 Reported: 10/04/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

Sampling Date: 09/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-24 BOTTOM 8' (H602182-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEx	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/30/2016	ND	206	103	200	0.630	
DRO >C10-C28	<10.0	10.0	09/30/2016	ND	209	105	200	1.21	

Surrogate: 1-Chlorooctane 113 % 35-147

Surrogate: 1-Chlorooctadecane 124 % 28-171

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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: 09/29/2016
Reported: 10/04/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/26/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-34 NORTH WALL (H602182-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEx	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2016	ND	187	93.3	200	14.1	
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3	

Surrogate: 1-Chlorooctane 98.8 % 35-147

Surrogate: 1-Chlorooctadecane 107 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 09/29/2016
 Reported: 10/04/2016
 Project Name: RMR-16-002
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 09/26/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP-36 NORTH WALL (H602182-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/30/2016	ND	2.30	115	2.00	0.238	
Toluene*	<0.050	0.050	09/30/2016	ND	2.34	117	2.00	0.895	
Ethylbenzene*	<0.050	0.050	09/30/2016	ND	2.25	113	2.00	0.254	
Total Xylenes*	<0.150	0.150	09/30/2016	ND	6.76	113	6.00	0.296	
Total BTEx	<0.300	0.300	09/30/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/02/2016	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/01/2016	ND	187	93.3	200	14.1	
DRO >C10-C28	<10.0	10.0	10/01/2016	ND	170	85.1	200	21.3	

Surrogate: 1-Chlorooctane 107 % 35-147

Surrogate: 1-Chlorooctadecane 117 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report



Celey D. Keene, Lab Director/Quality Manager

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

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 #: PMR-16-002 Project Owner:

Project Name:

Project Location:

Sampler Name:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H10021821

SP-22 Bottom 4ft	SP-23 Bottom 8ft	SP-25 South well	SP-29 South well	SP-20 Bottom 8ft	SP-21 Bottom 7ft	SP-24 Bottom 8ft	SP-34 North well	SP-36 North well
1	2	3	4	5	6	7	8	9
(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.	(G)RAB OR (C)OMP.
# CONTAINERS	# CONTAINERS	# CONTAINERS	# CONTAINERS	# CONTAINERS	# CONTAINERS	# CONTAINERS	# CONTAINERS	# CONTAINERS
GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER	GROUNDWATER
WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER	WASTEWATER
SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
OIL	OIL	OIL	OIL	OIL	OIL	OIL	OIL	OIL
SLUDGE	SLUDGE	SLUDGE	SLUDGE	SLUDGE	SLUDGE	SLUDGE	SLUDGE	SLUDGE
OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :
ACID/BASE:	ACID/BASE:	ACID/BASE:	ACID/BASE:	ACID/BASE:	ACID/BASE:	ACID/BASE:	ACID/BASE:	ACID/BASE:
ICE / COOL	ICE / COOL	ICE / COOL	ICE / COOL	ICE / COOL	ICE / COOL	ICE / COOL	ICE / COOL	ICE / COOL
OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :	OTHER :
DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME	TIME

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Phone #:

Fax #:

Zip:

PREPARED BY

SAMPLING

DATE

TIME

TPH 8015

BTEX

Chlorides

Relinquished By: *Don Perry* Date: *09/29/16* Time: *0700* Received By: *Don Martin*

Delivered By: (Circle One) *4.40* Sample Condition: ☒ Cool ☐ Intact ☐ Yes ☐ No

Sampler - UPS - Bus - Other: *4.40* CHECKED BY: *[Signature]*

REMARKS:

Phone Result: ☐ Yes ☐ No Add'l Phone #:
 Fax Result: ☐ Yes ☐ No Add'l Fax #:
 Add'l Phone #:
 Add'l Fax #:

October 07, 2016

Bob Allen

Safety & Environmental Solutions

703 East Clinton

Hobbs, NM 88240

RE: RMR-16-002

Enclosed are the results of analyses for samples received by the laboratory on 10/04/16 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.

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,



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: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-39 WEST WALL (H602223-01)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEX	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/04/2016	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	198	98.8	200	2.21	
DRO >C10-C28	29.7	10.0	10/05/2016	ND	182	90.8	200	2.55	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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

Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-40 WEST WALL (H602223-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	198	98.8	200	2.21	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	182	90.8	200	2.55	

Surrogate: 1-Chlorooctane 104 % 35-147

Surrogate: 1-Chlorooctadecane 106 % 28-171

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Analytical Results For:

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

Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-46 BOTTOM 1.5' (H602223-03)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	198	98.8	200	2.21	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	182	90.8	200	2.55	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 88.0 % 28-171

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Analytical Results For:

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

Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-44 BOTTOM 6' (H602223-04)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	198	98.8	200	2.21	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	182	90.8	200	2.55	

Surrogate: 1-Chlorooctane 97.1 % 35-147

Surrogate: 1-Chlorooctadecane 85.3 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-42 BOTTOM 1.5' (H602223-05)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	63.8	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 96.5 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-48 BOTTOM 1' (H602223-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.2 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 108 % 35-147

Surrogate: 1-Chlorooctadecane 115 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 09/30/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-49 EAST WALL (H602223-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 102 % 35-147

Surrogate: 1-Chlorooctadecane 108 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-52 BOTTOM 1.5' (H602223-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 93.8 % 35-147

Surrogate: 1-Chlorooctadecane 87.2 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-54 BOTTOM 1.5' (H602223-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEX	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 103 % 35-147

Surrogate: 1-Chlorooctadecane 110 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-56 BOTTOM 1.5' (H602223-10)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTEx	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/04/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 106 % 35-147

Surrogate: 1-Chlorooctadecane 111 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-57 NORTH WALL (H602223-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/05/2016	ND	2.20	110	2.00	0.355	
Toluene*	<0.050	0.050	10/05/2016	ND	2.24	112	2.00	0.218	
Ethylbenzene*	<0.050	0.050	10/05/2016	ND	2.19	109	2.00	0.224	
Total Xylenes*	<0.150	0.150	10/05/2016	ND	6.68	111	6.00	0.295	
Total BTX	<0.300	0.300	10/05/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/05/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	54.8	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 109 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Received: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-59 NORTH WALL (H602223-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2016	ND	2.00	100	2.00	3.33	
Toluene*	<0.050	0.050	10/06/2016	ND	2.04	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/06/2016	ND	2.00	99.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	10/06/2016	ND	5.98	99.6	6.00	2.89	
Total BTEx	<0.300	0.300	10/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/05/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 93.3 % 35-147

Surrogate: 1-Chlorooctadecane 83.9 % 28-171

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: 10/04/2016
Reported: 10/07/2016
Project Name: RMR-16-002
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 10/03/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP-60 EAST WALL (H602223-13)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/06/2016	ND	2.00	100	2.00	3.33	
Toluene*	<0.050	0.050	10/06/2016	ND	2.04	102	2.00	3.47	
Ethylbenzene*	<0.050	0.050	10/06/2016	ND	2.00	99.8	2.00	3.02	
Total Xylenes*	<0.150	0.150	10/06/2016	ND	5.98	99.6	6.00	2.89	
Total BTX	<0.300	0.300	10/06/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	10/05/2016	ND	400	100	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/05/2016	ND	203	102	200	1.34	
DRO >C10-C28	<10.0	10.0	10/05/2016	ND	213	106	200	2.27	

Surrogate: 1-Chlorooctane 91.1 % 35-147

Surrogate: 1-Chlorooctadecane 96.6 % 28-171

Cardinal Laboratories

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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

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Celey D. Keene, Lab Director/Quality Manager

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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 #: RMR-16-002 Project Owner:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H002223

1 SP-39 WEST WALK
2 SP-40 WEST WALK
3 SP-46 RATION 1.5 FT
4 SP-44 RATION 6 FT
5 SP-42 RATION 1.5
6 SP-48 RATION 1.5
7 SP-49 EAST WALK

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE TIME

09/30 0950

09/30 1025

09/30 1350

09/30 1300

09/30 1130

09/30 1450

09/30 1615

TPH 80PS
RTX
Chloride

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Relinquished By:

Date: 08/06/16

Received By:

Bara Motin

Relinquished By:

Date: 10/4/16

Received By:

Bara Motin

Delivered By: (Circle One)

Time: 5:10

Sample Condition

Cool ☒ Intact ☒

CHECKED BY: (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:
REMARKS:



CARDINAL Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

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 #: RML-16-002 Project Owner:

Project Name:

Project Location:

Sample Name:

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H602223

8 SR-42 Bottom 1.5 ft
9 SR-54 Bottom 1.5 ft
10 SR-56 Bottom 1.5 ft
11 SR-57 North well
12 SR-59 North well
13 SR-60 East well

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

TPH 8015

RTX

Chlorides

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: Same

Attn:

Address:

City:

State:

Zip:

Phone #:

Fax #:

MATRIX

PRESERV

SAMPLING

Relinquished By:

Date: 10/04/16

Received By:

Date: 10/04/16

Time: 8:00

Relinquished By:

Date: 10/04/16

Received By:

Date: 10/04/16

Time: 8:00

Relinquished By:

Date: 10/04/16

Phone Result:

Yes ☐ No ☐

Add'l Phone #:

Add'l Fax #:

REMARKS:

Sample Condition

Yes ☒ No ☐

Sample Condition

Yes ☒ No ☐

Sample Condition

Yes ☒ No ☐

Sample Condition

Yes ☒ No ☐

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Yes ☒ No ☐

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Yes ☒ No ☐

Sample Condition

Sample Condition

Yes ☒ No ☐

Sample Condition

Yes ☒ No ☐

Sample Condition

Yes ☒ No ☐

Sample Condition

Sample Condition

Yes ☒ No ☐

Appendix D

Site Photos

Gandy
Nuckols 24 #1 Location



Sign marking location



Release Point



Release Point Area



Impacted area West side of location



Pasture Impact



Fluid run Southwest pasture area

Gandy
Nuckols 24 #1 Location



Spill run impacting pasture



Impacted area west of location



Spill run looking south



Spill traverse west onto lease road



Spill Run North side



Surface Removal of north side

Gandy
Nuckols 24 #1 Location



Standing fluid west of pad



Removal of surface impact



Impact inside bermed area



Surface removal

Gandy
Nuckols 24 #1 Location



Test Trench



Test Trench



Surface removal at release point



Stockpiled soil

