



August 19, 2015

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 S First Street
Artesia, NM 88210

RE: Sampling Plan
Salt Draw 11 Federal Com No. 1 **2RP-1791**
API No.: 30-015-23692
Eddy County, New Mexico
Sphere 3 Project No.: 047730.00

Dear Mr. Bratcher:

Sphere 3 Environmental, Inc. (Sphere 3) has prepared this sampling plan for an additional subsurface investigation at the Salt Draw 11 Federal Com No. 1 tank battery on behalf of Matador Production Company (Matador). A topographic and site map showing the location of the project is included in Attachment 1. The site map shows the location of the soil borings installed on September 4, 2013 and November 18, 2014 as well as the estimated location of the proposed soil borings. The purpose of this sampling plan is to provide a detailed description of the additional subsurface sampling activities to be conducted at the above referenced facility.

Background

Spill Area

On July 31, 2013, a release of approximately 252 bbl. of crude oil was discovered at the Salt Draw 11 Federal Com No. 1 tank battery. The release was caused by the blowout of a plug on one of the onsite crude oil tanks. The released crude oil was contained within the earthen firewall around the tank. Approximately 71 bbl. of crude oil was recovered from within the firewall on July 31, 2013. Matador excavated approximately 420 cubic yards of contaminated soil in August 2013.

Sphere 3 conducted a Limited Subsurface Investigation in September 2013 in order to confirm the presence or absence of contaminated soils. This limited investigation yielded elevated concentrations of total petroleum hydrocarbons above the state target levels. The information from this Limited Subsurface Investigation was submitted to the NMOCD. After their review of the information, the NMOCD instructed Matador and Sphere 3 to conduct an additional investigation in order to further delineate the contamination found in the soil at the facility. This additional investigation was conducted in November 2014. Twenty-two geoprobe borings were drilled on the site ranging in depth from 8 feet below the ground surface to 28 feet below the ground surface. The soil from each 4-foot core sample was placed in plastic bags and screened using a photoionization detector (PID) in order to obtain organic vapor readings. A total of 34 soil samples were collected during the investigations. A diagram depicting each of the sample locations is included in Attachment 1. The soil samples were placed in laboratory-provided jars and stored in a cooler of ice. The samples were stored on ice until they were hand delivered to Cardinal Laboratories in Hobbs, New Mexico.

The samples collected on September 4, 2013 were analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH). The samples collected on November 18, 2014 were analyzed for Gasoline Range Organics/Diesel Range Organics (DRO/GRO), BTEX, and chlorides. The analytical results are outlined below in Table 1, and a copy of the lab results are provided as Attachment 2.

Table 1 – Sample Summary

Soil Boring ID	Depth	Date Collected	Benzene (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)	Chlorides
GB1	4-8'	September 4, 2013	0.191	11	1,840	--
GB3	20-24'	September 4, 2013	<0.050	1.78	433	--
GB4	4-8'	September 4, 2013	<0.050	1.32	1,940	--
GB5	12-16'	September 4, 2013	0.078	3.77	1,600	--
GB6	4-8'	September 4, 2013	<0.050	<0.300	<100	--
GB7	12-16'	September 4, 2013	0.064	4.45	6,140	--
GB8	12-16'	September 4, 2013	<0.200	7.39	6,660	--
GB9	0-4'	September 4, 2013	<0.050	<0.300	3,390	--
GB10	12'-16'	November 18, 2014	<0.050	<0.300	<10.0	480
GB10	16'-20'	November 18, 2014	<0.050	<0.300	<10.0	480
GB11	8'-12'	November 18, 2014	<0.050	<0.300	<10.0	608
GB11	20'-22'	November 18, 2014	<0.050	<0.300	<10.0	672
GB12	8'-12'	November 18, 2014	<0.050	0.318	484	<16.0
GB12	20'-24'	November 18, 2014	<0.050	<0.300	<10.0	80.0
GB13	8'-12'	November 18, 2014	<0.050	<0.300	305	240
GB13	20'-22'	November 18, 2014	<0.050	<0.300	116	160
GB14	0'-4'	November 18, 2014	<0.050	<0.300	<10.0	<16.0
GB14	20'-21.5'	November 18, 2014	<0.050	<0.300	<10.0	208
GB15	0'-4'	November 18, 2014	<0.200	11.9	1,483	48.0
GB15	16'-20'	November 18, 2014	<0.050	7.78	96.4	32.0
GB16	4'-8'	November 18, 2014	<0.200	12.8	1,977	<16.0
GB16	20'-23'	November 18, 2014	<0.050	5.80	263	144
GB17	8'-12'	November 18, 2014	<0.050	<0.300	<10.0	80.0
GB17	20'-22.5'	November 18, 2014	<0.050	<0.300	<10.0	160
GB18	12'-16'	November 18, 2014	<0.050	<0.300	<10.0	928
GB18	16'-20'	November 18, 2014	<0.050	<0.300	<10.0	224
GB19	12'-16'	November 18, 2014	<0.050	<0.300	<10.0	368
GB19	20'-22'	November 18, 2014	0.147	0.305	<10.0	400
GB20	12'-16'	November 18, 2014	<0.050	<0.300	36.6	16.0
GB20	16'-20'	November 18, 2014	<0.050	<0.300	<10.0	64.0
GB21	0'-4'	November 19, 2014	<0.050	0.611	2,382.7	<16.0
GB21	20'-24'	November 19, 2014	<0.050	<0.300	<10.0	192
GB22	0'-4'	November 19, 2014	<0.050	<0.300	<10.0	304

GB22	16'-20'	November 19, 2014	<0.050	<0.300	<10.0	112
NMOCD Guidelines for Remediation of Leaks, Spills, and Releases Limits						
			10	50	100	

mg/kg – milligrams per kilograms

Based on the findings of the subsurface investigations performed on the facility in September 2013 and November 2014, concentrations of TPH were found to be elevated above the cleanup standards set forth in the NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993)* at depths up to 24 feet below ground surface. This guideline determines remediation levels by assessing the site for the severity of contamination and potential environmental and public health threats using a risk-based ranking system. This system uses three factors to establish remediation standards: 1.) Depth to Groundwater, 2.) Wellhead Protection Area, and 3.) Distance to Nearest Surface Water Body. The Salt Draw 11 Federal Com No. 1 tank battery is not located within a wellhead protection area, nor is it located in an area that would potentially pose a threat to a surface water body. According to the New Mexico Office of the State Engineer's water well database, the depth to groundwater in the area of this facility is approximately 40 feet below the ground surface. Based on this information, the most stringent cleanup levels of 10 ppm for benzene, 50 ppm for BTEX, and 100 ppm for TPH were applied to the remediation of this site.

In order to determine if the contamination has reached a depth that indicates protectable ground water might be impaired by the release, the NMOCD requires additional samples at depths greater than 24 feet below ground surface and samples collected at within the previously excavated tank battery area. This area has been back filled with clean soils.

Proposed Sampling Plan

Sphere 3 proposes to install a maximum of thirteen soil borings to a maximum depth of 35 feet below ground surface or until organic vapor readings become negligible in each boring utilizing a hollow steam auger rig. Should groundwater be encountered during drilling, the NMOCD will be contacted, and if required, a monitoring well will be installed. The borings will be advanced in and around the former tank battery area and areas of known impact in order to find the vertical extent of the contamination. The soil will be field screened on a continuous basis using a PID and a minimum of two soil samples will be collected from each boring. One sample will be collected from the termination depth and one from the depth exhibiting the highest PID reading or the depth most conducive to delineating the contaminant plume. Should the field screening results indicate the need, additional soil samples will be collected to aid in the delineation of the contaminant plume. The soil samples will be submitted to an accredited laboratory for chemical analysis. Each soil sample will be analyzed for gasoline range organics/diesel range organics (DRO/GRO), and benzene, toluene, ethylbenzene, and total xylenes (BTEX). Soil cuttings generated during the installations of the soil borings will be containerized and left on-site for subsequent disposal by Matador. The bore holes will be plugged per the appropriate regulations immediately after the samples have been collected.

Accepted industry sampling protocols will be followed during this investigation. All of the soil samples collected will be placed into laboratory supplied sample jars and immediately placed on ice in a cooler. Nitrile gloves will be worn during sampling collection and a new pair will be donned for each new sample. Following the results of the lab analysis, a report documenting the investigation

activities, findings, and conclusions will be prepared and submitted to NMOCD and BLM on behalf of Matador.

If you have any questions, or if we can be of additional service, please call us at 903-297-4673.

Sincerely,
Sphere 3 Environmental, Inc.

A handwritten signature in blue ink that reads "Crissy Forrest". The signature is fluid and cursive, with the first name "Crissy" and the last name "Forrest" clearly distinguishable.

Crissy Forrest
Environmental Scientist

Attachments:

Attachment 1 – Maps

Attachment 2 – Laboratory Analysis Report

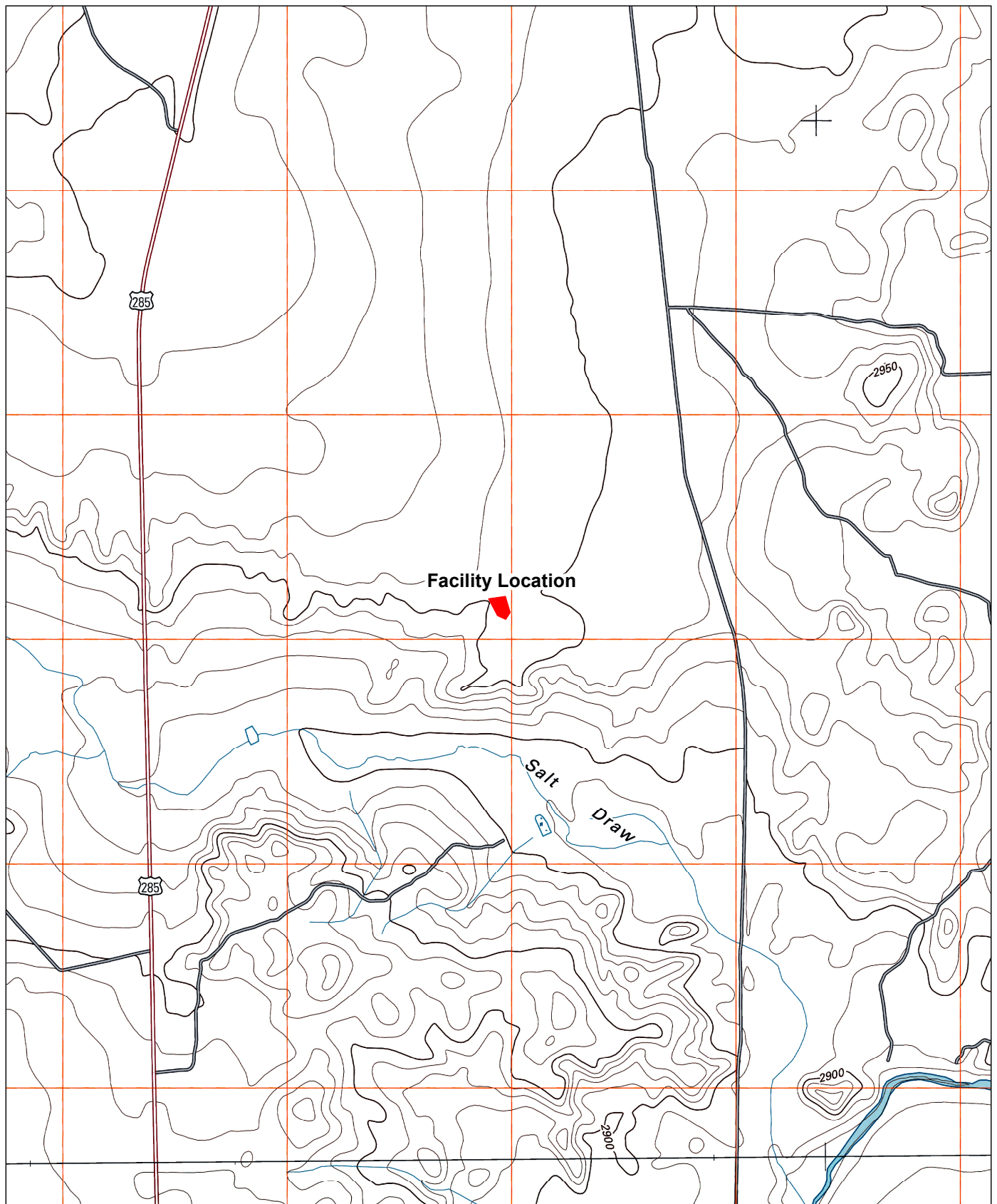


Figure 1
Topographic Features of the Salt Draw No. 1 Spill
in Eddy County, NM

0 1,000 2,000 4,000 6,000 8,000 Feet

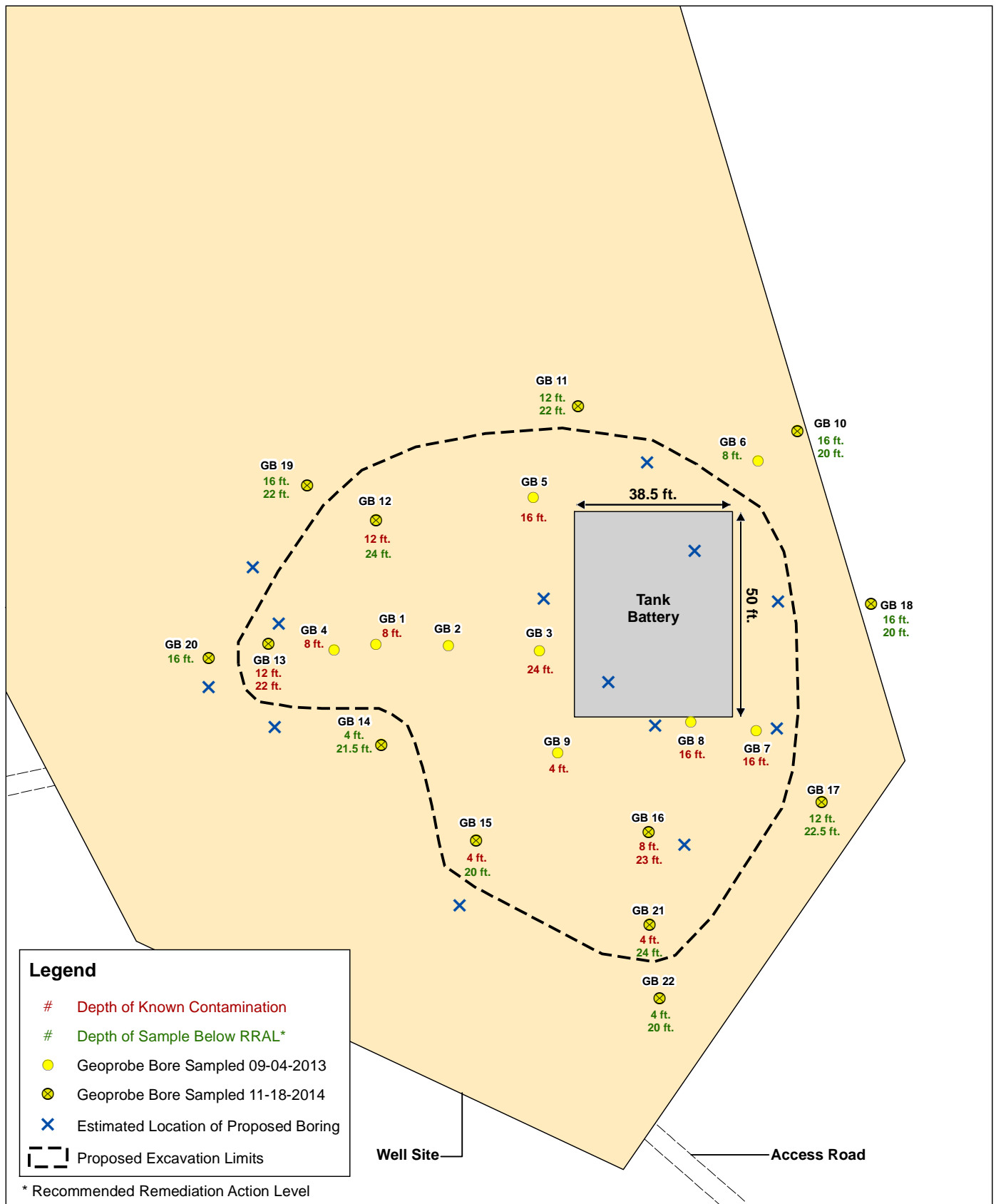
Matador Resources Company
Project Number: 047730.00

Date: 08/28/2013

Base Map: USGS 7.5 Minute Topographic
Quadrangle: Malaga, NM (Published, 2010)



1501 Bill Owens Parkway
Longview, TX 75604
Phone: (903) 297-4673
Fax: (903) 297-4675





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

September 05, 2013

CRISSY FORREST

SPHERE 3 ENVIRONMENTAL

1501 BILL OWENS PARKWAY

LONGVIEW, TX 75604

RE: SALT DRAW NO. 1 SPILL

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	09/04/2013	Sampling Date:	09/04/2013
Reported:	09/05/2013	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 1 4-8 (H302141-01)

BTEX 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.191	0.050	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.619	0.050	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	3.02	0.050	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	7.21	0.150	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	11.0	0.300	09/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 144 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	1840	100	09/05/2013	ND	5140	103	5000	4.63	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	09/04/2013	Sampling Date:	09/04/2013
Reported:	09/05/2013	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 5 12-16 (H302141-02)

BTEX 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.078	0.050	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.464	0.050	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	0.531	0.050	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	2.70	0.150	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	3.77	0.300	09/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 159 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	1600	100	09/05/2013	ND	5140	103	5000	4.63	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 09/04/2013
 Reported: 09/05/2013
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/04/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 8 12-16 (H302141-03)

BTEX 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.492	0.200	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	2.37	0.200	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	4.40	0.600	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	7.39	1.20	09/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 148 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	6660	100	09/05/2013	ND	5140	103	5000	4.63	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	09/04/2013	Sampling Date:	09/04/2013
Reported:	09/05/2013	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 7 12-16 (H302141-04)

BTEX 8021B		mg/kg		Analyzed By: DW				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.064	0.050	09/05/2013	ND	2.09	105	2.00	2.81	
Toluene*	0.394	0.050	09/05/2013	ND	2.26	113	2.00	2.06	
Ethylbenzene*	1.58	0.050	09/05/2013	ND	2.38	119	2.00	1.62	
Total Xylenes*	2.42	0.150	09/05/2013	ND	7.19	120	6.00	0.796	
Total BTEX	4.45	0.300	09/05/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 163 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	6140	100	09/05/2013	ND	5140	103	5000	4.63	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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



24 Hour Rush

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

email to: Kivland@Sphere3Environmental.com
Forester@Sphere3Environmental.com

Company Name: Sphere 3 Environmental

Project Manager: Cissy Forrest

Address: 1501 Bill Owens Parkway

City: Lovelock State: NV Zip: 75604

Phone #: 903.297.4673 Fax #: 903.297.4675

Project #: 0217730 Project Owner:

Project Name: Salt Draw 1001 Spill

Project Location: Salt Draw 1001 Eddy Co., NM

Sampler Name: Cissy Forrest

FOR LAB USE ONLY

Lab I.D. Sample I.D.

H309141

1 681 4-8

2 435 12-10

3 438 12-10

4 437 12-10

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

DATE

TIME

DATE

TIME

DATE

TIME

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TIME

BTEX EPA method

60218020

TPH EPA method

418.1

ANALYSIS REQUEST

PLEASE NOTE: Liability and Damages. Cardinal's liability and clients exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 4-13

Received By:

Adi Mendon

Relinquished By:

Date: 4-40

Received By:

Adi Mendon

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

2.60

Sample Condition
Cool ☒ Intact ☒
Yes ☒ No ☐

CHECKED BY:
(Signature)

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

REMARKS:

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

#54



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

September 10, 2013

CRISSY FORREST

SPHERE 3 ENVIRONMENTAL

1501 BILL OWENS PARKWAY

LONGVIEW, TX 75604

RE: SALT DRAW NO. 1 SPILL

Enclosed are the results of analyses for samples received by the laboratory on 09/04/13 16:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_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:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	09/04/2013	Sampling Date:	09/04/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB3 20-24 (H302142-01)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	0.370	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	0.216	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	1.19	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	1.78	0.300	09/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 124 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	433	100	09/05/2013	ND	5140	103	5000	4.63	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	09/04/2013	Sampling Date:	09/04/2013
Reported:	09/10/2013	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB4 4-8 (H302142-02)

BTEX 8021B		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	0.196	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	0.451	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	0.677	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	1.32	0.300	09/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 141 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	1940	100	09/05/2013	ND	5140	103	5000	4.63	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675Received: 09/04/2013
Reported: 09/10/2013
Project Name: SALT DRAW NO. 1 SPILL
Project Number: 047730
Project Location: EDDY COUNTY, NMSampling Date: 09/04/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: GB6 4-8 (H302142-03)**

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	<0.050	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 111 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	<100	100	09/05/2013	ND	5140	103	5000	4.63	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 09/04/2013
 Reported: 09/10/2013
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 09/04/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB9 0-4 (H302142-04)

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	09/09/2013	ND	2.11	106	2.00	7.67	
Toluene*	<0.050	0.050	09/09/2013	ND	2.28	114	2.00	6.92	
Ethylbenzene*	0.059	0.050	09/09/2013	ND	2.39	120	2.00	6.93	
Total Xylenes*	<0.150	0.150	09/09/2013	ND	7.29	122	6.00	6.30	
Total BTEX	<0.300	0.300	09/09/2013	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 89.4-126

TPH 418.1		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TPH 418.1	3390	500	09/05/2013	ND	5140	103	5000	4.63	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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



Routine ten around time.

email results to:

(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

forrest@spnere3environmental.com

[illegible]



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

November 26, 2014

CRISSY FORREST

SPHERE 3 ENVIRONMENTAL

1501 BILL OWENS PARKWAY

LONGVIEW, TX 75604

RE: SALT DRAW NO. 1 SPILL

Enclosed are the results of analyses for samples received by the laboratory on 11/19/14 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_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,

Hope S. Moreno For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 11/19/2014
 Reported: 11/26/2014
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 10 12' - 16' (H403559-01)

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	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTX	<0.300	0.300	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/20/2014	ND	416	104	400	3.92	

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	11/20/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21	

Surrogate: 1-Chlorooctane 113 % 47.2-157

Surrogate: 1-Chlorooctadecane 131 % 52.1-176

Cardinal Laboratories

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 11/19/2014
 Reported: 11/26/2014
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 10 16' - 20' (H403559-02)

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	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTEX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	11/20/2014	ND	416	104	400	3.92	

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	11/20/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21	


Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 133 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 11 8' - 12' (H403559-03)

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	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTEX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	608	16.0	11/20/2014	ND	416	104	400	3.92		

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	11/20/2014	ND	182	90.8	200	3.28		
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21		

Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 11 20' - 22' (H403559-04)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTEX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	11/20/2014	ND	416	104	400	3.92	

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	11/20/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/20/2014	ND	182	90.8	200	3.21	


Surrogate: 1-Chlorooctane 118 % 47.2-157

Surrogate: 1-Chlorooctadecane 130 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 11/19/2014
 Reported: 11/26/2014
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 12 8' - 12' (H403559-05)

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	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	0.140	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	0.178	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	0.318	0.300	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/20/2014	ND	432	108	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	30.0	10.0	11/21/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	454	10.0	11/21/2014	ND	182	90.8	200	3.21	

Surrogate: 1-Chlorooctane 120 % 47.2-157

Surrogate: 1-Chlorooctadecane 148 % 52.1-176

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 11/19/2014
 Reported: 11/26/2014
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 12 20' - 24' (H403559-06)

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	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTEX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 95.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	182	90.8	200	3.28	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	182	90.8	200	3.21	

Surrogate: 1-Chlorooctane 116 % 47.2-157

Surrogate: 1-Chlorooctadecane 133 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 13 8' - 12' (H403559-07)

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	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTEX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	305	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 149 % 52.1-176

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Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 13 20' - 22' (H403559-08)

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	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50		
DRO >C10-C28	116	10.0	11/21/2014	ND	207	104	200	5.04		

Surrogate: 1-Chlorooctane 123 % 47.2-157

Surrogate: 1-Chlorooctadecane 138 % 52.1-176

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Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 14 0' - 4' (H403559-09)

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	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	<0.300	0.300	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	


Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received: 11/19/2014
Reported: 11/26/2014
Project Name: SALT DRAW NO. 1 SPILL
Project Number: 047730
Project Location: EDDY COUNTY, NM

Sampling Date: 11/18/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: GB 14 20' - 21.5' (H403559-10)

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	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTEX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	


Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 11/19/2014
 Reported: 11/26/2014
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 15 0' - 4' (H403559-11)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.465	0.200	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	1.38	0.200	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	10.1	0.600	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTX	11.9	1.20	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/20/2014	ND	432	108	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	223	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	1260	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 142 % 47.2-157

Surrogate: 1-Chlorooctadecane 143 % 52.1-176

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Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 11/19/2014
 Reported: 11/26/2014
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/18/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 15 16' - 20' (H403559-12)

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	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.399	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	0.965	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	6.42	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	7.78	0.300	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 116 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/20/2014	ND	432	108	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	22.3	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	74.1	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 131 % 47.2-157

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 16 4' - 8' (H403559-13)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.446	0.200	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	1.10	0.200	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	11.2	0.600	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	12.8	1.20	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 110 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/20/2014	ND	432	108	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	247	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	1730	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 152 % 47.2-157

Surrogate: 1-Chlorooctadecane 156 % 52.1-176

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 16 20' - 23' (H403559-14)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/24/2014	ND	1.85	92.5	2.00	7.25	
Toluene*	0.283	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06	
Ethylbenzene*	0.664	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62	
Total Xylenes*	4.85	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90	
Total BTEX	5.80	0.300	11/24/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 114 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/20/2014	ND	432	108	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	53.0	10.0	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	210	10.0	11/21/2014	ND	207	104	200	5.04	


Surrogate: 1-Chlorooctane 130 % 47.2-157

Surrogate: 1-Chlorooctadecane 143 % 52.1-176

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 17 8' - 12' (H403559-15)

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	11/24/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/24/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/24/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/24/2014	ND	5.27	87.8	6.00	6.90		
Total BTX	<0.300	0.300	11/24/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.7 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50		
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04		

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 140 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 17 20' - 22.5' (H403559-16)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2014	ND	1.85	92.5	2.00	7.25		
Toluene*	<0.050	0.050	11/25/2014	ND	1.78	89.0	2.00	6.06		
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	6.62		
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.27	87.8	6.00	6.90		
Total BTEX	<0.300	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 124 % 47.2-157

Surrogate: 1-Chlorooctadecane 135 % 52.1-176

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received: 11/19/2014
Reported: 11/26/2014
Project Name: SALT DRAW NO. 1 SPILL
Project Number: 047730
Project Location: EDDY COUNTY, NM

Sampling Date: 11/18/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: GB 18 12' - 16' (H403559-17)

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	11/25/2014	ND	1.82	90.8	2.00	3.02		
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94		
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36		
Total BTX	<0.300	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 137 % 52.1-176

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Analytical Results For:SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675Received: 11/19/2014
Reported: 11/26/2014
Project Name: SALT DRAW NO. 1 SPILL
Project Number: 047730
Project Location: EDDY COUNTY, NMSampling Date: 11/18/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: GB 18 16' - 20' (H403559-18)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEx	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 95.7 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 126 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 19 12' - 16' (H403559-19)

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	11/25/2014	ND	1.82	90.8	2.00	3.02		
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94		
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36		
Total BTX	<0.300	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50		
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04		

Surrogate: 1-Chlorooctane 126 % 47.2-157

Surrogate: 1-Chlorooctadecane 137 % 52.1-176

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Analytical Results For:SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675Received: 11/19/2014
Reported: 11/26/2014
Project Name: SALT DRAW NO. 1 SPILL
Project Number: 047730
Project Location: EDDY COUNTY, NMSampling Date: 11/18/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: GB 19 20' - 22' (H403559-20)**

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.147	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	0.132	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	0.305	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 126 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 20 12' - 16' (H403559-21)

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	11/25/2014	ND	1.82	90.8	2.00	3.02		
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94		
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36		
Total BTEX	<0.300	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	36.6	10.0	11/21/2014	ND	207	104	200	5.04	


Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 142 % 52.1-176

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Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/18/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 20 16' - 20' (H403559-22)

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	11/25/2014	ND	1.82	90.8	2.00	3.02		
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94		
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36		
Total BTEX	<0.300	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	


Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 137 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/19/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 21 0' - 4' (H403559-23)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02		
Toluene*	0.108	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01		
Ethylbenzene*	0.159	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94		
Total Xylenes*	0.344	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36		
Total BTEX	0.611	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	11/20/2014	ND	432	108	400	3.77		

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	72.7	50.0	11/21/2014	ND	202	101	200	2.50		
DRO >C10-C28	2310	50.0	11/21/2014	ND	207	104	200	5.04		

Surrogate: 1-Chlorooctane 130 % 47.2-157

Surrogate: 1-Chlorooctadecane 178 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received:	11/19/2014	Sampling Date:	11/19/2014
Reported:	11/26/2014	Sampling Type:	Soil
Project Name:	SALT DRAW NO. 1 SPILL	Sampling Condition:	Cool & Intact
Project Number:	047730	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

Sample ID: GB 21 20' - 24' (H403559-24)

BTEx 8021B		mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02		
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94		
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36		
Total BTEX	<0.300	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.4 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	11/20/2014	ND	432	108	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	11/21/2014	ND	202	101	200	2.50		
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04		


Surrogate: 1-Chlorooctane 125 % 47.2-157

Surrogate: 1-Chlorooctadecane 134 % 52.1-176

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Hope S. Moreno For Caley D. Keene, Lab Director/Quality Manager

Analytical Results For:

 SPHERE 3 ENVIRONMENTAL
 CRISSY FORREST
 1501 BILL OWENS PARKWAY
 LONGVIEW TX, 75604
 Fax To: (903) 297-4675

 Received: 11/19/2014
 Reported: 11/26/2014
 Project Name: SALT DRAW NO. 1 SPILL
 Project Number: 047730
 Project Location: EDDY COUNTY, NM

 Sampling Date: 11/19/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: GB 22 0' - 4' (H403559-25)

BTEx 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2014	ND	1.82	90.8	2.00	3.02	
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01	
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94	
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36	
Total BTEX	<0.300	0.300	11/25/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/20/2014	ND	400	100	400	3.92	

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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	

Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 136 % 52.1-176

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Hope S. Moreno For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

SPHERE 3 ENVIRONMENTAL
CRISSY FORREST
1501 BILL OWENS PARKWAY
LONGVIEW TX, 75604
Fax To: (903) 297-4675

Received: 11/19/2014
Reported: 11/26/2014
Project Name: SALT DRAW NO. 1 SPILL
Project Number: 047730
Project Location: EDDY COUNTY, NM

Sampling Date: 11/19/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: GB 22 16' - 20' (H403559-26)

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	11/25/2014	ND	1.82	90.8	2.00	3.02		
Toluene*	<0.050	0.050	11/25/2014	ND	1.74	87.1	2.00	5.01		
Ethylbenzene*	<0.050	0.050	11/25/2014	ND	1.72	85.9	2.00	3.94		
Total Xylenes*	<0.150	0.150	11/25/2014	ND	5.23	87.2	6.00	4.36		
Total BTEX	<0.300	0.300	11/25/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 61-154

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	11/20/2014	ND	400	100	400	3.92	

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	11/21/2014	ND	202	101	200	2.50	
DRO >C10-C28	<10.0	10.0	11/21/2014	ND	207	104	200	5.04	


Surrogate: 1-Chlorooctane 127 % 47.2-157

Surrogate: 1-Chlorooctadecane 137 % 52.1-176

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Hope S. Moreno For Caley 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.
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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Hope S. Moreno For 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

Forrest @ Sphere 3 Environmental.com

ANALYSIS REQUEST

BILL TO

Company Name: Sphere 3 Environmental

Project Manager: Cissy Forrest

Address: 1501 Bill Buert Parkway

City: Longview State: TX Zip: 75604

Phone #: 403-247-4673 Fax #: 403-247-4675

Project #: 04730 Project Owner: Matador

Project Name: Salt Draw 20.1

Project Location: Eddy County, NM

Sampler Name: Cissy Forrest

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H403559

6B10 12'-16'

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Forrest @ Sphere 3 Environmental .com

Company Name: Sphere 3 Environmental		P.O. #: 047730		BILL TO																					
Project Manager: Crissy Forrest		Company: Sphere 3		ANALYSIS REQUEST																					
Address: 1501 Bill Owens Parkway		Attn: Jacque Starks																							
City: Longview State: TX Zip: 75604		Address: 1501 Bill Owens Parkway																							
Phone #: 903-297-41673 Fax #: 903-297-41675		City: Longview																							
Project #: 047730 Project Owner: Matador		State: TX Zip: 75604																							
Project Name: Salt Draw DO.1		Phone #: 903-297-41673																							
Project Location: Eddy County, NM		Fax #: 903-297-41675																							
Sampler Name: Crissy Forrest																									
FOR LAB USE ONLY																									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME											
4403559	4B 15 0'-4'		1			X							11-18-14	1235	X	DRD4180 5.0									
	4B 15 16'-20'		1			X							11-18-14	1310	X	BTEX 602/8020									
	4B 16 4'-8'		1			X							11-18-14	1325	X	Chlorides									
	4B 16 20'-23'		1			X							11-18-14	1400	X										
	4B 17 8'-12'		1			X							11-18-14	1415	X										
	4B 17 20'-22.5'		1			X							11-18-14	1505	X										
	4B 18 12'-16'		1			X							11-18-14	1530	X										
	4B 18 16'-20'		1			X							11-18-14	1600	X										
	4B 19 12'-16'		1			X							11-18-14	1625	X										
	4B 19 20'-22'		1			X							11-18-14	1645	X										
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Relinquished By:		Date: 11-19-14		Received By:																					
Time: 11:15		Date: 11:15																							
Time:																									
Delivered By: (Circle One)		Sample Condition		CHECKED BY: (Initials)																					
Sampler - UPS - Bus - Other:		Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																					
3.42		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>																					
#54																									

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



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

forrest@sphere3environmental.com

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