

October 23, 2014

Mr. Mike Bratcher New Mexico Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

RE: Work Plan for Limited Site Investigation Salt Draw 11 Fed Com No. 1 API No. 30-015-23692 Eddy County, New Mexico

Dear Mr. Bratcher

Sphere 3 E nvironmental (Sphere 3) has prepared this Work Plan for a Limited Site Investigation (LSI) Proposal on behalf of Matador Resources Company. The purpose of this limited site investigation is to delineate the extent of contamination at the above referenced facility as required by the New Mexico Oil Conservation Division (NMOCD).

Background

On July 31, 2013 a release of approximately 252 bbls of crude oil was discovered at the Salt Draw 11 Fed Com No. 1 well site. A plug on one of the crude oil tanks blew out. The released crude oil was contained within the earthen firewall around the tank. Approximately 71 bbls of crude oil was recovered from the firewall on July 31, 2013. Matador excavated approximately 420 cubic yards of contaminated soil on August 2013.

A Limited Subsurface Investigation was performed on September 4, 2013 by Sphere 3 in order to confirm the absence of additional contaminated soils. Nine geoprobe borings were installed 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 eight soil samples were collected; one from each boring. The soil samples were placed in laboratory provided jars and stored in a cooler of ice. The samples were hand delivered to Cardinal Laboratories in Hobbs, New Mexico and analyzed for benzene, toluene, ethylbenzene, and xylene (BTEX) and total petroleum hydrocarbons (TPH). The analytical results are outlined in Table 1 and a copy of the lab results are attached to this letter. A map (Site Plan) depicting the sample locations is also attached to this letter.

Table 1 – Sample Summary

Soil Boring ID	Depth	Date Collected	Benzene (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)
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
NMOC	CD Guideline	es for Remediation of L	eaks, Spills, a	and Releases Li	mits
			10	50	100

mg/kg – milligrams per kilograms

Based on the findings of the Limited Subsurface Investigation performed on the facility in September 2013, concentrations of TPH were found elevated above the cleanup standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills, and Releases (August 13, 1993). 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, 3) and Distance to Nearest Surface Water Body. This facility 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. This information placed the remediation of this site under the most stringent cleanup levels of 10 ppm for benzene, 50 ppm for BTEX, and 100 ppm for TPH. In order to determine the best course of action concerning the remediation of the contamination found at this facility, the contaminant plume requires further delineation. The NMOCD indicated that in addition to gathering analytical data of the BTEX and TPH concentrations in the soil, chloride concentrations need to be determined in order to rule out produced water contamination.

Proposed Work Plan

In order to further delineate the contaminant plume located at the above referenced facility, Sphere 3 proposes to install a maximum of fifteen soil borings at the site utilizing a geoprobe rig. The borings will be installed in and around the area of known impact in order to find the extent of the contamination. The soil will be field screened on a continuous basis using a photoionization detector (PID). 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), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and chlorides. 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. Typical 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 along with a remediation plan based on the findings.

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.

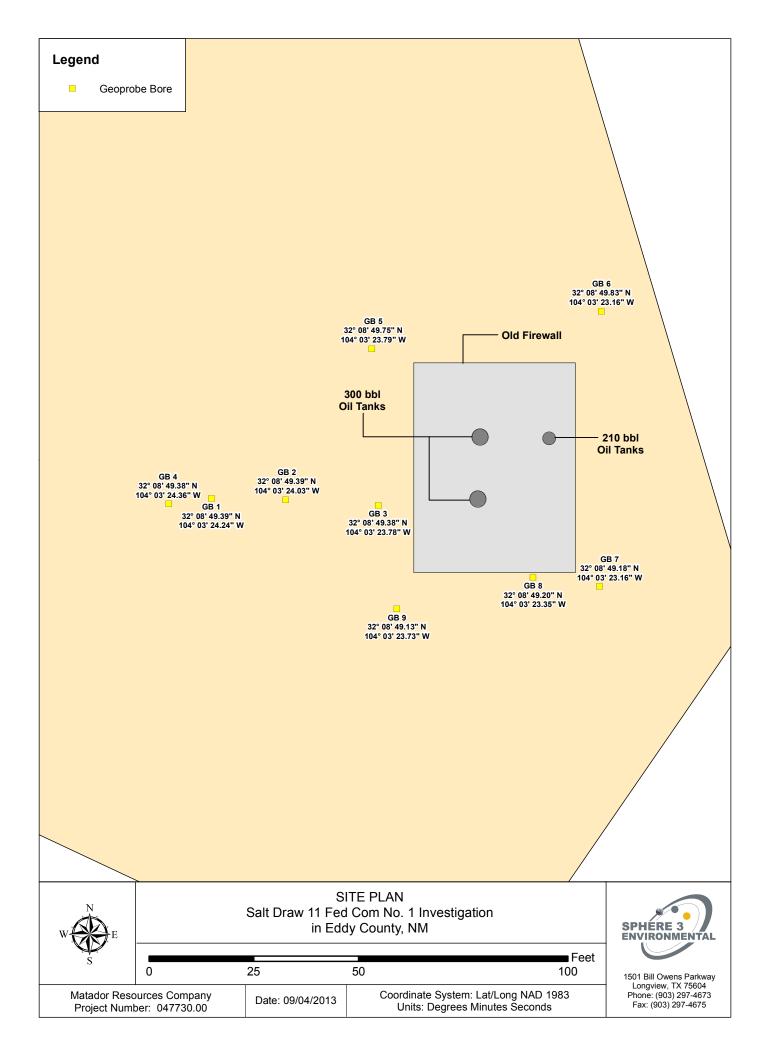
Crissy Forrest

Environmental Scientist

Attachments:

Attachment 1 - Maps

Attachment 2 – Laboratory Analysis Report





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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keens

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



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	Analyze	d 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	% 89.4-12	6						
TPH 418.1	mg	/kg	Analyze	d 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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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)

RTFY 8021R

BIEX 0021B	ilig	rky	Allalyze	и ву: оч					3-04
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	% 89.4-12	26						
TPH 418.1	mg,	/kg	Analyze	d 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	

Analyzed By: DW

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

S-04



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

ma/ka

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

BTEX 8021B

BIEX 0021B	ilig/	ng .	Allalyze	u by. Dw					3-04
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 9	% 89.4-12	6						
TPH 418.1	mg/	kg	Analyze	d 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	

Analyzed By: DW

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine

S-04



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	Analyze	d 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	% 89.4-12	6						
TPH 418.1	mg	/kg	Analyze	d 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	

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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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Address:	1501 bill owens	O TOY WILL Company: 0			
city: LONG	DACTION State:	te: TX Zip: 75604 Attn: 600			· \$
Phone #: 40	5. 297.4673 Fax	Fax #: 903.297.4675 Address: 10	10	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	а
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Project Location:	J417	Eddy Co. NM Phone #:	7 - Y	A 2 -	<u>. </u>
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

Page 7 of 7



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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keens

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



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)

DTEV 0021D

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	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	% 89.4-12	6						
TPH 418.1	mg,	/kg	Analyze	d 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	

Analyzed By MC

Cardinal Laboratories *=Accredited Analyte

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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	Analyze	d 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 9	% 89.4-12	6						
TPH 418.1	mg/	'kg	Analyze	d 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	

Cardinal Laboratories *=Accredited Analyte

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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

ma/ka

Sample ID: GB6 4-8 (H302142-03)

RTFY 8021R

BIEX 9021B	mg/	кg	Anaiyze	а ву: мъ					
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 9	% 89.4-12	6						
TPH 418.1	mg/	'kg	Analyze	d 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	

Analyzed By: MC

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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: GB9 0-4 (H302142-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/09/2013	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 9	% 89.4-12	6						
TPH 418.1	mg/	/kg	Analyze	d 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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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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Routine tem ausual time.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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