

**Bratcher, Mike, EMNRD**

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**From:** BD Environmental <bdenvironmental@gmail.com>  
**Sent:** Monday, March 11, 2013 9:11 PM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Fwd: Cortez Trucking - 2RP-331  
**Attachments:** Sampling Diagram 3-1-13.pdf; H300537 BDE.pdf

Mr. Bratcher

Let's try this again with the attachments. The sampling event on 3/1/2013 was conducted in areas identified as hotspots; Flowpath and N2. Please see attached diagram. Delineation samples were done to determine the vertical and horizontal extent of the impact. The sampling results can be found in the table below. Also, it was determined at 21" – 24" a hard caliche layer is encountered. This layer was unable to be breached by the backhoe.

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Thank you,  
Justin Riggs

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**From:** BDE <bdenvironmental@gmail.com>  
**Date:** Mon, Mar 11, 2013 at 9:41 AM  
**Subject:** Fwd: Cortez Trucking - 2RP-331  
**To:** EMNRD Bratcher Mike <mike.bratcher@state.nm.us>

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Sent from my iPhone

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**Date:** March 11, 2013, 7:41:21 AM MDT

**Cc:** [U245kn0694@yahoo.com](mailto:U245kn0694@yahoo.com)

**Subject:** Re: Cortez Trucking - 2RP-331

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On Tue, Feb 26, 2013 at 6:44 AM, Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

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Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

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**From:** BDE [mailto:[bdenvironmental@gmail.com](mailto:bdenvironmental@gmail.com)]

**Sent:** Monday, February 25, 2013 6:28 PM

**To:** Bratcher, Mike, EMNRD

**Subject:** Re: Cortez Trucking - 2RP-331

Mr. Bratcher,

As per requested, I will be conducting sampling at the Cortez Yard on Friday March 1, 2013.

I will be coming in from Las Cruces Thursday evening. I have the contractor scheduled for Friday morning at 6 am to delineate the impacted areas. The samples will be delivered to Cardinal Labs in Hobbs.

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On Feb 21, 2013, at 1:02 PM, "Bratcher, Mike, EMNRD" <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

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If you have any questions or concerns, and for notifications, please contact me.

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**To:** Bratcher, Mike, EMNRD

**Cc:** [U245kn0694@yahoo.com](mailto:U245kn0694@yahoo.com); [aweyant@yatespetroleum.com](mailto:aweyant@yatespetroleum.com)

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Mr. Bratcher,

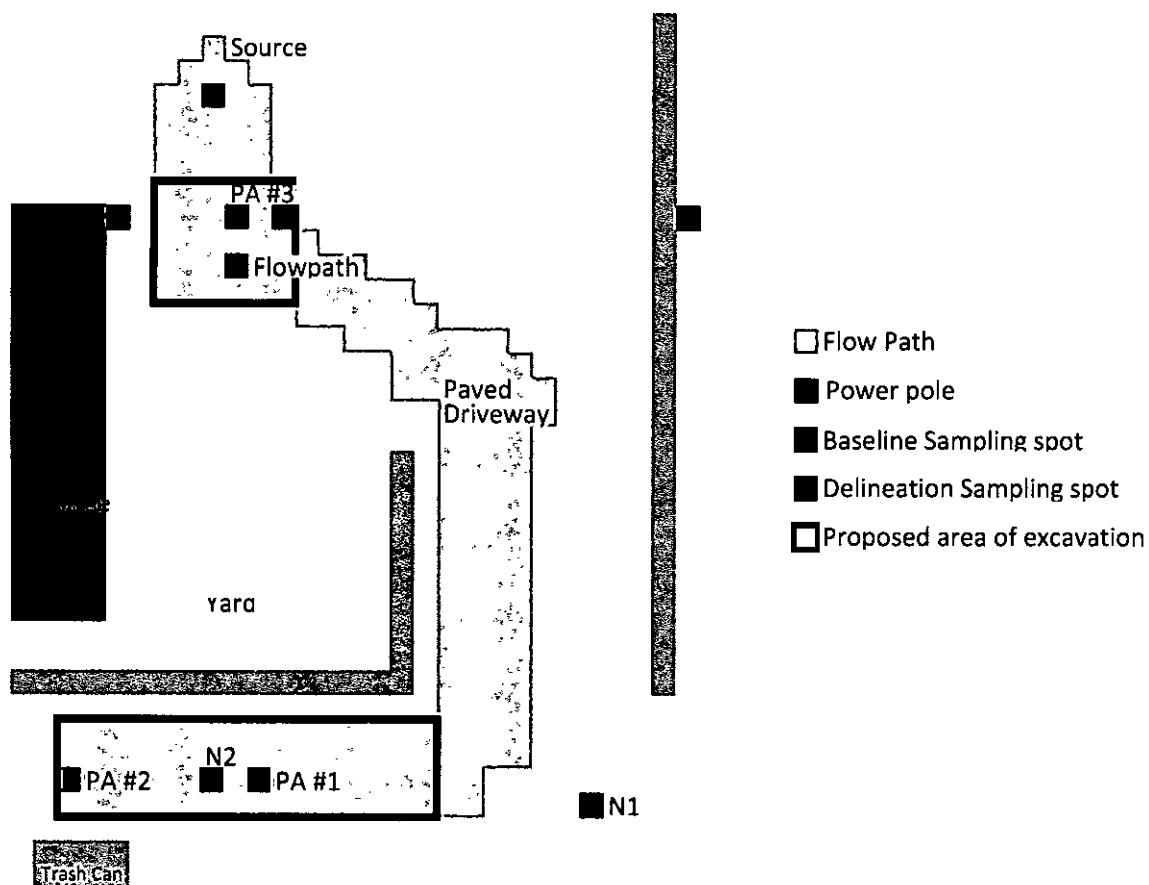
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Las Cruces, NM

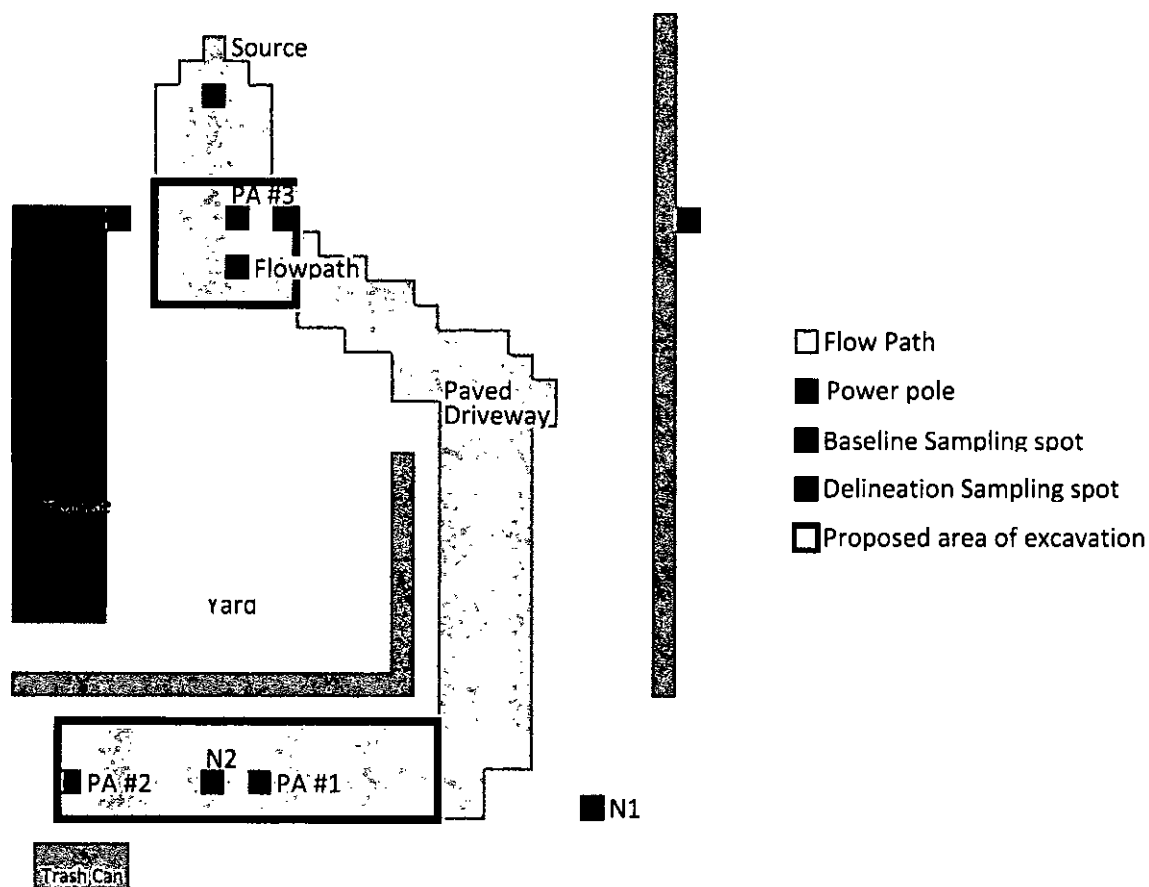
Cortez Trucking Sampling Diagram March 1, 2013 6:00 am



Baseline Sampling	
10/29/2012	Choride mg/kg
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Flowpath (PA)	6500
N1	32
N2 (PA)	12800

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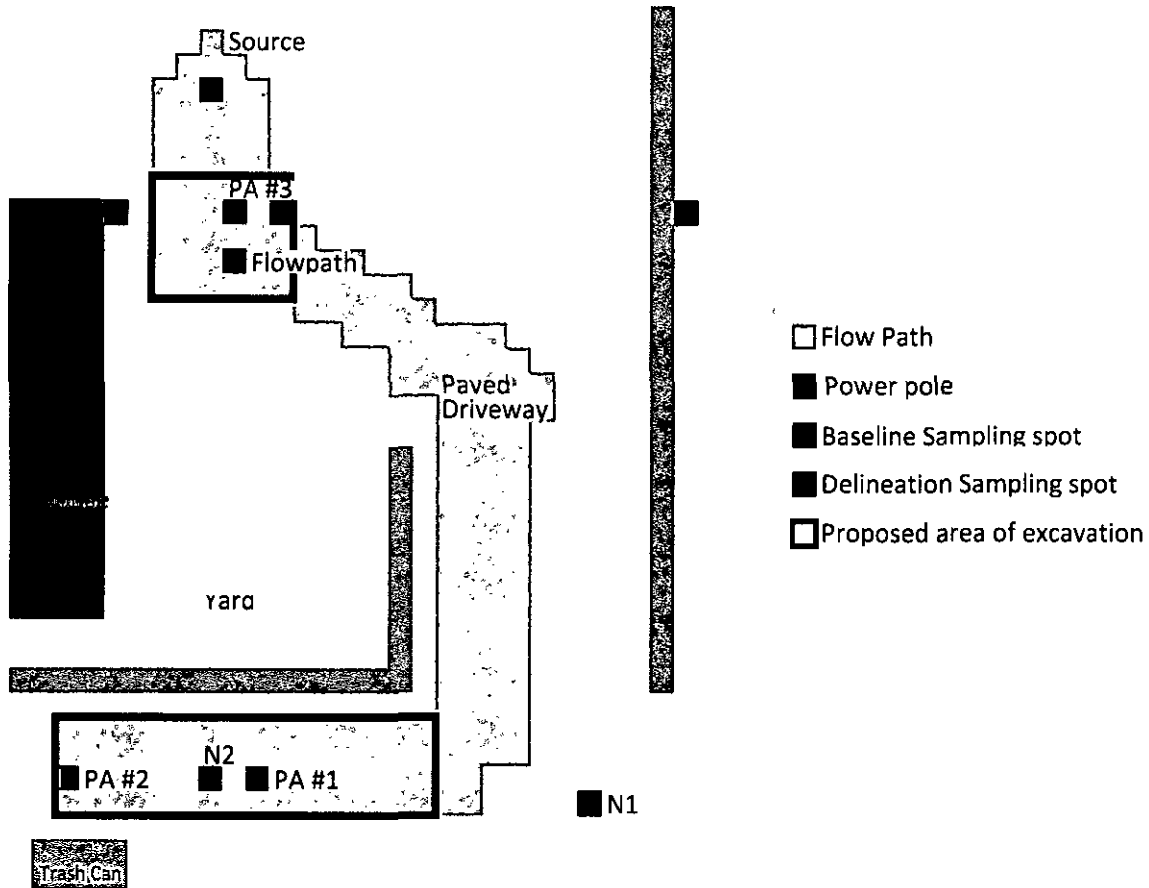
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**Bratcher, Mike, EMNRD**

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**From:** Bratcher, Mike, EMNRD  
**Sent:** Monday, March 11, 2013 8:30 AM  
**To:** 'BD Environmental'  
**Cc:** U245kn0694@yahoo.com  
**Subject:** RE: Cortez Trucking - 2RP-331

Justin,

Can you provide a diagram showing where the samples were obtained in relation to the Cortez yard and the neighbor's yard. Doesn't have to be anything technical, hand drawn is fine.

Thanks,

Mike Bratcher  
NMOCD District 2  
811 S. First Street  
Artesia, NM 88210  
O: 575-748-1283 X108  
C: 575-626-0857  
F: 575-748-9720

**From:** BD Environmental [mailto:bdenvironmental@gmail.com]  
**Sent:** Monday, March 11, 2013 7:43 AM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** U245kn0694@yahoo.com  
**Subject:** Re: Cortez Trucking - 2RP-331

Mr. Bratcher,

The sampling event on 3/1/2013 was conducted in areas identified as hotspots; Flowpath and N2. Please see attached diagram. Delineation samples were done to determine the vertical and horizontal extent of the impact. The sampling results can be found in the table below. Also, it was determined at 21" – 24" a hard caliche layer is encountered. This layer was unable to be breached by the backhoe.

It is our recommendation that PA #1, #2, and #3 be excavated to 18" and disposed of at an approved OCD facility and closure be requested. Would this be acceptable for you?

Delineation Sampling					Notes
3/1/2013	Chloride mg/kg	BTEX	GRO (mg/kg)	DRO (mg/kg)	
PA #1 18"	880	ND	ND	ND	18" Sample; 24" Hard caliche layer unable to penetrate
PA #2 18"	512	ND	ND	ND	18" sample; 23" Hard caliche layer unable to penetrate
PA #3 19"	544	ND	ND	ND	19" sample; 21" Hard caliche layer

				unable to penetrate
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Thank you,

Justin Riggs

On Tue, Feb 26, 2013 at 6:44 AM, Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

Justin,

Thank you for the notification. I have another commitment on Friday and likely will not be available to witness this sampling event. Please maintain a diagram of the area sampled with sample points and depths marked on the diagram. I will try to make it if possible, but please proceed if I am not there.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: [575-748-1283](tel:575-748-1283) X108

C: [575-626-0857](tel:575-626-0857)

F: [575-748-9720](tel:575-748-9720)

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**From:** BDE [<mailto:bdenvironmental@gmail.com>]

**Sent:** Monday, February 25, 2013 6:28 PM

**To:** Bratcher, Mike, EMNRD

**Subject:** Re: Cortez Trucking - 2RP-331

Mr. Bratcher,

As per requested, I will be conducting sampling at the Cortez Yard on Friday March 1, 2013.

I will be coming in from Las Cruces Thursday evening. I have the contractor scheduled for Friday morning at 6 am to delineate the impacted areas. The samples will be delivered to Cardinal Labs in Hobbs.

Thank you,

Justine Riggs

Sent from my iPhone

On Feb 21, 2013, at 1:02 PM, "Bratcher, Mike, EMNRD" <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)> wrote:

Reference: Cortez Trucking \* OCD Tracking Number: 2RP-331

Mr. Riggs,

Your proposal for delineation and removal of contaminated soils, due to a release of produced fluids, as related to the above referenced incident, is approved. Please notify OCD 48 hours prior to commencement of remedial activities, and 48 hours prior to obtaining samples where the analyses are to be presented to OCD.

OCD approval does not relieve Cortez Trucking of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve Cortez Trucking of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, and for notifications, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

**From:** BD Environmental [<mailto:bdenvironmental@gmail.com>]  
**Sent:** Wednesday, February 20, 2013 9:28 PM  
**To:** Bratcher, Mike, EMNRD  
**Cc:** [U245kn0694@yahoo.com](mailto:U245kn0694@yahoo.com); [aweyant@yatespetroleum.com](mailto:aweyant@yatespetroleum.com)  
**Subject:** Re: Cortez Trucking - 2RP-331

Mr. Bratcher,

Thank you for the provided paperwork, Attached is the requested workplan. Upon approval of this plan we will notify you of the scheduled the delineation, so you may witness the sampling. If you have any questions or concerns please feel free to contact me.

Thank you,

Justin Riggs

On Thu, Oct 11, 2012 at 9:59 PM, James Weyant <[bdenvironmental@gmail.com](mailto:bdenvironmental@gmail.com)> wrote:

Mr. Bratcher,

I have been retained by Cortez Trucking & Oilfield Service to obtain soil samples in association with a 2009 release of produced water. It is my understanding that in order to resolve this issue associated with Case # 2RP-331, Cortez Trucking must meet Recommended Remediation Action Levels (RRALs) set forth by the Guidelines for Remediation of Leaks, Spills and Releases (1993). As I understand it the RRALs are based on depth to ground water, distance to surface water body, and distance to a wellhead protected area and include limits for benzene, BTEX, and TPH. I want to confirm this information with you before I extract my initial samples and incur the cost of lab analysis.

Thank you taking the address my questions.

Justin Riggs

Chief Scientist

BD Environmental  
Las Cruces, NM

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Mike Bratcher

NMOCD District 2



811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

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Justine Riggs

Sent from my iPhone

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If you have any questions or concerns, and for notifications, please contact me.

Mike Bratcher

NMOCD District 2

811 S. First Street

Artesia, NM 88210

O: 575-748-1283 X108

C: 575-626-0857

F: 575-748-9720

**From:** BD Environmental [<mailto:bdenvironmental@gmail.com>]

**Sent:** Wednesday, February 20, 2013 9:28 PM

**To:** Bratcher, Mike, EMNRD

**Cc:** [U245kn0694@yahoo.com](mailto:U245kn0694@yahoo.com); [aweyant@yatespetroleum.com](mailto:aweyant@yatespetroleum.com)

**Subject:** Re: Cortez Trucking - 2RP-331

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Justin Riggs

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Thank you taking the address my questions.

Justin Riggs

Chief Scientist  
BD Environmental  
Las Cruces, NM



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

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March 07, 2013

AUSTIN WEYANT

B D ENVIRONMENTAL

2709 SANDIGALE DRIVE

LAS CRUCES, NM 88001

RE: CORTEZ TRUCKING

Enclosed are the results of analyses for samples received by the laboratory on 03/01/13 14:40.

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](http://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:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PA #1 (H300537-01)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/05/2013	ND	432	108	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

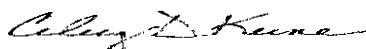
Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PA #2 (H300537-02)**

BTEX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE #3 (H300537-03)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTX	<0.300	0.300	03/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PHE) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	


Surrogate: 1-Chlorooctane 83.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

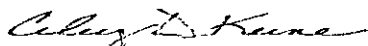
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager





1101 East Marland, Hobbs, NM 88240  
(575) 393-2326 FAX (575) 393-2476

[illegible][illegible]

Relinquished By: <u>Frank Weyant</u> Date: _____ Time: _____		Received By: <u>Debi Jensen</u> Date: _____ Time: _____	
Relinquished By: _____ Date: _____ Time: _____		Received By: _____ Date: _____ Time: _____	
Delivered By: (Circle One) Sampler - UPS - Bus - Other: _____		Sample Condition: Cool / Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		Add'l Phone #: _____ Add'l Fax #: _____	
REMARKS: <u>SEND TO bdenvironmental@gmail.com</u>			

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



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

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March 07, 2013

AUSTIN WEYANT

B D ENVIRONMENTAL

2709 SANDIGALE DRIVE

LAS CRUCES, NM 88001

RE: CORTEZ TRUCKING

Enclosed are the results of analyses for samples received by the laboratory on 03/01/13 14:40.

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](http://www.tceq.texas.gov/field/ga/lab_accred_certif.html).

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

Method EPA 552.2	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 "Coley D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PA #1 (H300537-01)**

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTX	<0.300	0.300	03/07/2013	ND						

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

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	880	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28		
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24		

Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PA #2 (H300537-02)**

BTX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68		
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305		
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409		
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11		
Total BTX	<0.300	0.300	03/07/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE #3 (H300537-03)**

BTX 8021B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTX	<0.300	0.300	03/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: DW					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	

Surrogate: 1-Chlorooctane 83.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

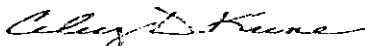
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



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

March 07, 2013

AUSTIN WEYANT  
B D ENVIRONMENTAL  
2709 SANDIGALE DRIVE  
LAS CRUCES, NM 88001

RE: CORTEZ TRUCKING

Enclosed are the results of analyses for samples received by the laboratory on 03/01/13 14:40.

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](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

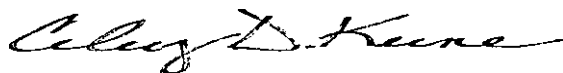
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PA #1 (H300537-01)**

BTEX 8021B			mg/kg		Analyzed By: AP				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					

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

Chloride, SM4500Cl-B			mg/kg		Analyzed By: DW				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	

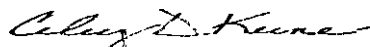
Surrogate: 1-Chlorooctane 80.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.2 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTÉZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: PA #2 (H300537-02)**

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	

Surrogate: 1-Chlorooctane 84.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

B D ENVIRONMENTAL  
AUSTIN WEYANT  
2709 SANDIGALE DRIVE  
LAS CRUCES NM, 88001  
Fax To: NONE

Received: 03/01/2013  
Reported: 03/07/2013  
Project Name: CORTEZ TRUCKING  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 03/01/2013  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: SAMPLE #3 (H300537-03)**

BTEX 8021B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2013	ND	1.99	99.3	2.00	2.68	
Toluene*	<0.050	0.050	03/07/2013	ND	2.00	100	2.00	0.305	
Ethylbenzene*	<0.050	0.050	03/07/2013	ND	1.94	97.1	2.00	0.409	
Total Xylenes*	<0.150	0.150	03/07/2013	ND	6.06	101	6.00	3.11	
Total BTEX	<0.300	0.300	03/07/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 113 % 89.4-126

Chloride, SM4500Cl-B		mg/kg	Analyzed By: DW						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/05/2013	ND	432	108	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	03/06/2013	ND	216	108	200	1.28	
DRO >C10-C28	<10.0	10.0	03/06/2013	ND	216	108	200	3.24	

Surrogate: 1-Chlorooctane 83.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 100 % 63.6-154

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

#26