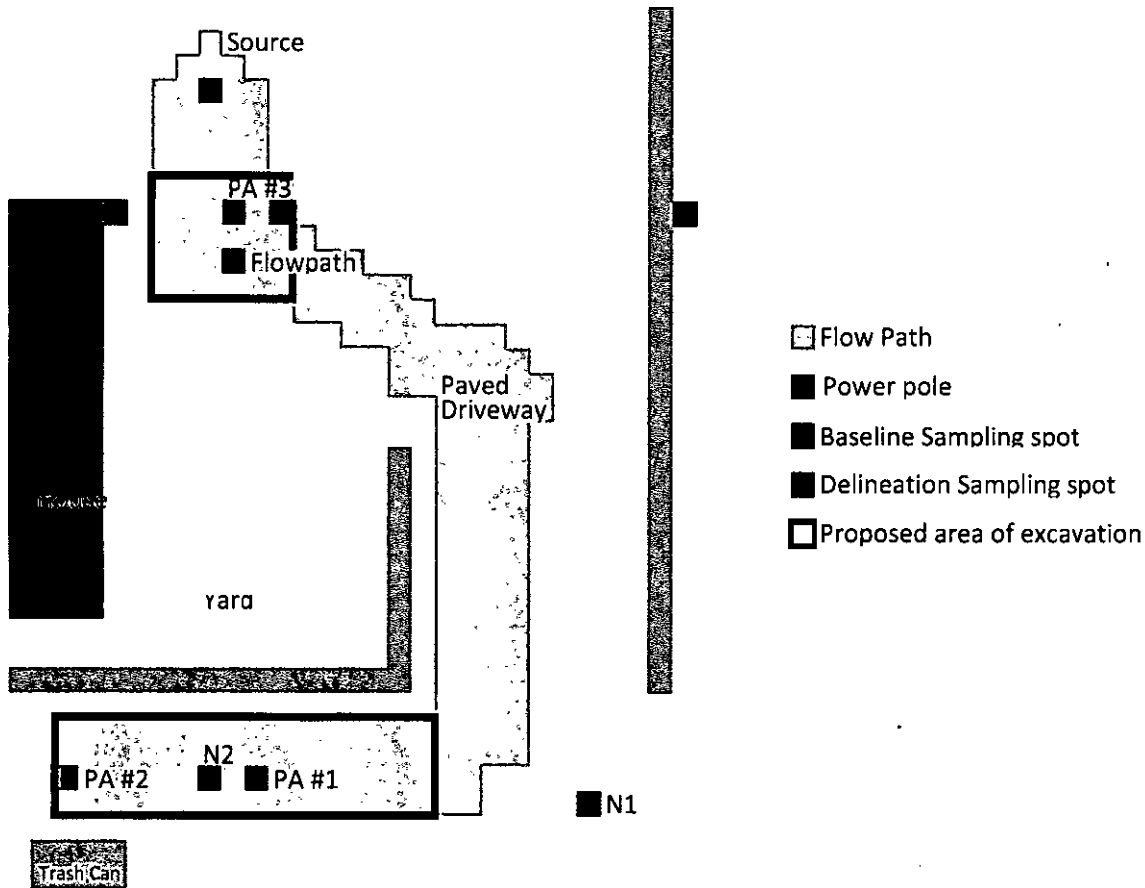


Cortez Trucking Sampling Diagram March 1, 2013 6:00 am



Baseline Sampling	
10/29/2012	Chloride mg/kg
Source	336
Flowpath (PA)	6500
N1	32
N2 (PA)	12800

Delineation Sampling					
3/1/2013	Chloride mg/kg	BTEX	GRO (mg/kg)	DRO (mg/kg)	Notes
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

## Bratcher, Mike, EMNRD

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**From:** BDE <bdenvironmental@gmail.com>  
**Sent:** Thursday, March 21, 2013 1:37 PM  
**To:** Bratcher, Mike, EMNRD  
**Subject:** Cortez lab analysis  
**Attachments:** H300537 BDE (01).pdf; ATT00001.txt



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

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 (PIC) 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	

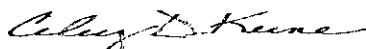
Surrogate: 1-Chlorooctane 80.4 % 65.2-140

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)**

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	

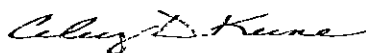
Surrogate: 1-Chlorooctane 84.9 % 65.2-140

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 (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	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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

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

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

