

September 02, 2014

JOEL LOWRY

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: PLU #261 TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 08/26/14 14:04.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

Basin Environmental Service
JOEL LOWRY
P.O. Box 301
Lovington NM, 88260
Fax To: (575) 396-1429

Received: 08/26/2014
Reported: 09/02/2014
Project Name: PLU #261 TANK BATTERY
Project Number: FLARE
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: FLARE (EAST) @ SURFACE (H402618-01)

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	08/29/2014	ND	1.81	90.4	2.00	0.649	
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857	
Total BTEX	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 89.4-126

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	08/28/2014	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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	33.1	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 125 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Project Number: FLARE
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: FLARE (EAST) @ 1' (H402618-02)

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	08/29/2014	ND	1.81	90.4	2.00	0.649		
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857		
Total BTEx	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 89.4-126

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2014	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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	31.5	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	<10.0	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 103 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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Project Number: FLARE
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: FLARE (WEST) @ SURFACE (H402618-03)

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	08/29/2014	ND	1.81	90.4	2.00	0.649		
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254		
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755		
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857		
Total BTEx	<0.300	0.300	08/29/2014	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 89.4-126

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	08/28/2014	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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	797	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	314	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 91.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Project Number: FLARE
Project Location: EDDY COUNTY, NM

Sampling Date: 08/21/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Kathy Perez

Sample ID: FLARE (WEST) @ 1' (H402618-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/29/2014	ND	1.81	90.4	2.00	0.649	
Toluene*	<0.050	0.050	08/29/2014	ND	1.68	83.9	2.00	0.254	
Ethylbenzene*	<0.050	0.050	08/29/2014	ND	1.64	82.1	2.00	0.755	
Total Xylenes*	<0.150	0.150	08/29/2014	ND	5.01	83.5	6.00	0.857	
Total BTX	<0.300	0.300	08/29/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.6 % 89.4-126

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	08/28/2014	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	08/28/2014	ND	183	91.3	200	3.20	
DRO >C10-C28	47.0	10.0	08/28/2014	ND	198	98.9	200	4.67	
EXT DRO >C28-C35	20.5	10.0	08/28/2014	ND					

Surrogate: 1-Chlorooctane 99.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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