



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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, flowing "C" and "K".

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	Sampling Date:	08/21/2014
Reported:	09/02/2014	Sampling Type:	Soil
Project Name:	PLU #261 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	FLARE	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

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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Celey D. Keene, Lab Director/Quality Manager

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Reported:	09/02/2014	Sampling Type:	Soil
Project Name:	PLU #261 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	FLARE	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

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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Received:	08/26/2014	Sampling Date:	08/21/2014
Reported:	09/02/2014	Sampling Type:	Soil
Project Name:	PLU #261 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	FLARE	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

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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Received:	08/26/2014	Sampling Date:	08/21/2014
Reported:	09/02/2014	Sampling Type:	Soil
Project Name:	PLU #261 TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	FLARE	Sample Received By:	Kathy Perez
Project Location:	EDDY COUNTY, NM		

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

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	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) 98.6 % 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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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



Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Basin Environmental Service Technologies, LLC
 Project Manager: Joel Lowry
 Address: P.O. Box 301
 City: Lovington State: NM Zip: 88260
 Phone #: (575)396-2378 Fax #: (575)396-1429
 Project #: Project Owner:
 Project Name: PLU #261 Tank Battery (Flare)
 Project Location: Eddy Co., NM
 Sampler Name: Joel Lowry
 P.O. #: Company: BOPCO, LP
 Attn: Tony Savoie
 Address: 522 W. Marland
 City: Carlsbad
 State: NM Zip: 88220
 Phone #: (432)556-8730
 Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Chloride	TPH (8015M)	BTEX (8021B)	HOLD FOR TPH
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :						
440618	Flare (East) @ Surf	g	1			X				8/21/14	900	X	X	X	
	Flare (East) @ 1'	g	1			X				8/21/14	905	X	X	X	
	Flare (West) @ Surf	g	1			X				8/21/14	910	X	X	X	
	Flare (West) @ 1'	g	1			X				8/21/14	915	X	X	X	

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Relinquished By: *Joel Lowry*
 Date: 8/21/14
 Time: 8:04
 Received By: *Tony Savoie*

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: *280 #34*
 Sample Condition: Cool Intact
 Checked By: *KB*

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

HOLD FOR TPH
 Please email results to pm@basinenv.com,
 TASavoie@BassPet.com & SJWalters@BassPet.com