

AP – 119

Q2 GWMR

06 / 02 / 2014

TABLE 1

CUMULATIVE CONCENTRATIONS OF BTEX & CARBON TETRACHLORIDE IN GROUNDWATER

PRO-KEM, INC.
 LOVINGTON YARD
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NO: AP-119

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8260b							
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	M,P-XYLENES (mg/L)	O-XYLENES (mg/L)	TOTAL XYLENE (mg/L)	TOTAL BTEX (mg/L)	CARBON TERTRACHLORIDE (mg/L)
MW-1	10/24/2012	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.180
MW-1	1/29/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.134
MW-1	5/9/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.167
MW-1	8/16/2013	<0.002	<0.002	<0.002	<0.004	<0.002	<0.006	<0.006	0.294
MW-1	12/13/2013	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.002	<0.002	0.147
MW-1	2/26/2014	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.002	<0.002	0.328
MW-1	5/14/2014	<0.002	<0.002	<0.002	<0.005	<0.002	<0.008	<0.008	0.272
MW-2	10/24/2012	<0.010	<0.010	<0.010	<0.020	<0.010	<0.030	<0.030	1.55
MW-2	1/29/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	1.50
MW-2	5/9/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.181
MW-2	8/16/2013	<0.005	<0.005	<0.005	<0.010	<0.005	<0.015	<0.015	0.744
MW-2	12/13/2013	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.002	<0.002	0.693
MW-2	2/26/2014	<0.002	<0.002	<0.002	<0.005	<0.002	<0.008	<0.008	0.281
MW-2	5/14/2014	<0.002	<0.002	<0.002	<0.005	<0.002	<0.008	<0.008	0.190
MW-3	10/24/2012	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.034
MW-3	1/29/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.020
MW-3	5/9/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.012
MW-3	8/16/2013	<0.001	<0.001	<0.001	<0.002	<0.001	<0.003	<0.003	0.012
MW-3	12/13/2013	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.002	<0.002	0.009
MW-3	2/26/2014	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.002	<0.002	0.009
MW-3	5/14/2014	<0.0005	<0.0005	<0.0005	<0.001	<0.0005	<0.002	<0.002	0.006
WQCC Standard		0.01	0.75	0.75	TOTAL XYLENES		0.62		0.002

TABLE 2

CUMULATIVE GROUNDWATER ELEVATION DATA

PRO-KEM, INC.
 LOVINGTON YARD
 LEA COUNTY, NEW MEXICO
 NMOCD REFERENCE NO: AP-119

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO WATER	CORRECTED GROUNDWATER ELEVATION	TOTAL WELL DEPTH	FREE PRODUCT THICKNESS
MW-1	10/24/12	3,895.67	65.43	3,830.24	73.06	0.00
MW-1	01/29/13	3,895.67	65.66	3,830.01	73.01	0.00
MW-1	05/09/13	3,895.67	66.02	3,829.65	72.58	0.00
MW-1	08/16/13	3,895.67	66.35	3,829.32	72.41	0.00
MW-1	12/13/13	3,895.67	65.89	3,829.78	72.71	0.00
MW-1	02/26/14	3,895.67	66.81	3,828.86	73.85	0.00
MW-1	05/14/14	3,895.67	67.25	3,828.42	72.84	0.00
MW-2	10/24/12	3,894.33	64.81	3,829.52	69.87	0.00
MW-2	01/29/13	3,894.33	65.17	3,829.16	69.84	0.00
MW-2	05/09/13	3,894.33	63.44	3,830.89	69.85	0.00
MW-2	08/16/13	3,894.33	65.73	3,828.60	69.87	0.00
MW-2	12/13/13	3,894.33	65.27	3,829.06	69.85	0.00
MW-2	02/26/14	3,894.33	66.23	3,828.10	69.92	0.00
MW-2	05/14/14	3,894.33	66.68	3,827.65	70.45	0.00
MW-3	10/24/12	3,894.13	65.51	3,828.62	70.68	0.00
MW-3	01/29/13	3,894.13	65.75	3,828.38	70.68	0.00
MW-3	05/09/13	3,894.13	66.11	3,828.02	70.75	0.00
MW-3	08/16/13	3,894.13	66.25	3,827.88	70.76	0.00
MW-3	12/13/13	3,894.13	65.88	3,828.25	70.80	0.00
MW-3	02/26/14	3,894.13	66.94	3,827.19	71.31	0.00
MW-3	05/14/14	3,894.13	67.37	3,826.76	71.51	0.00



May 27, 2014

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: LOVINGTON YARD (AP1-119)

Enclosed are the results of analyses for samples received by the laboratory on 05/15/14 8:10.

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 cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/15/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Water
Project Name:	LOVINGTON YARD (AP1-119)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MW-1 (H401474-01)

Volatile 8260		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.272	0.002	05/27/2014	ND	0.019	94.2	0.0200	2.42	
Benzene*	<0.002	0.002	05/27/2014	ND	0.020	102	0.0200	1.23	
Toluene*	<0.002	0.002	05/27/2014	ND	0.021	103	0.0200	0.536	
Ethylbenzene*	<0.002	0.002	05/27/2014	ND	0.020	100	0.0200	0.751	
m+p - Xylene*	<0.005	0.005	05/27/2014	ND	0.040	101	0.0400	0.744	
o-Xylene*	<0.002	0.002	05/27/2014	ND	0.020	98.2	0.0200	1.77	
Total Xylenes*	<0.008	0.008	05/27/2014	ND	0.060	100	0.0600	0.0831	

<i>Surrogate: Dibromofluoromethane</i>	<i>95.7 %</i>	<i>87.3-113</i>
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>89.6-110</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>97.4 %</i>	<i>82.3-119</i>

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	05/15/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Water
Project Name:	LOVINGTON YARD (AP1-119)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MW-2 (H401474-02)

Volatile 8260		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.190	0.002	05/27/2014	ND	0.019	94.2	0.0200	2.42	
Benzene*	<0.002	0.002	05/27/2014	ND	0.020	102	0.0200	1.23	
Toluene*	<0.002	0.002	05/27/2014	ND	0.021	103	0.0200	0.536	
Ethylbenzene*	<0.002	0.002	05/27/2014	ND	0.020	100	0.0200	0.751	
m+p - Xylene*	<0.005	0.005	05/27/2014	ND	0.040	101	0.0400	0.744	
o-Xylene*	<0.002	0.002	05/27/2014	ND	0.020	98.2	0.0200	1.77	
Total Xylenes*	<0.008	0.008	05/27/2014	ND	0.060	100	0.0600	0.0831	
<hr/>									
Surrogate: Dibromofluoromethane	99.8 %	87.3-113							
Surrogate: Toluene-d8	101 %	89.6-110							
Surrogate: 4-Bromofluorobenzene	96.3 %	82.3-119							

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Analytical Results For:

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 BEN J. ARGUIJO
 P.O. Box 301
 Lovington NM, 88260
 Fax To: (575) 396-1429

Received:	05/15/2014	Sampling Date:	05/14/2014
Reported:	05/27/2014	Sampling Type:	Water
Project Name:	LOVINGTON YARD (AP1-119)	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: MW-3 (H401474-03)

Volatile 8260		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.006	0.0005	05/27/2014	ND	0.019	94.2	0.0200	2.42	
Benzene*	<0.0005	0.0005	05/27/2014	ND	0.020	102	0.0200	1.23	
Toluene*	<0.0005	0.0005	05/27/2014	ND	0.021	103	0.0200	0.536	
Ethylbenzene*	<0.0005	0.0005	05/27/2014	ND	0.020	100	0.0200	0.751	
m+p - Xylene*	<0.001	0.001	05/27/2014	ND	0.040	101	0.0400	0.744	
o-Xylene*	<0.0005	0.0005	05/27/2014	ND	0.020	98.2	0.0200	1.77	
Total Xylenes*	<0.002	0.002	05/27/2014	ND	0.060	100	0.0600	0.0831	
<hr/>									
<i>Surrogate: Dibromofluoromethane</i>	<i>98.8 %</i>	<i>87.3-113</i>							
<i>Surrogate: Toluene-d8</i>	<i>100 %</i>	<i>89.6-110</i>							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>95.3 %</i>	<i>82.3-119</i>							

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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

Company Name: Basin Environmental Service Technologies, LLC

Project Manager: Joel Lowry

Address: P.O. Box 301

City: Lovington

Phone #: (575)396-2378

Project #: Pro Kem

Project Name: Lovington Yard AP-119

Project Location: Lea Co, NM

Sampler Name: Robert Sawyer

FOR LAB USE ONLY

BILL TO

P.O. #:

Company: Basin Env

Attn: Joel Lowry

Address:

City: Lovington

State: NM Zip: 88260

Phone #: 432-466-4450

Fax #:

ANALYSIS REQUEST

Lab I.D. Sample I.D.

HW01474

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	Carbon Tetrachloride	BTEX (8021B)
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
1	MMW-1	g	1	X						5/14/14	1400	X	X
2	MMW-2	g	1	X						5/14/14	1430	X	X
3	MMW-3	g	1	X						5/14/14	1500	X	X

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Relinquished By:

[Signature]

Date: 5/14/14

Time: 4:30

Date: 5/10

Time:

Received By:

[Signature]

Date:

Time:

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

Sample Condition

Cool Intact

Yes No

Yes No

CHECKED BY:

[Signature]

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

4.20

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

#54