

AP – 119

2013 GWMR

02 / 12 / 2013

TABLE 1
GROUNDWATER ELEVATION DATA
PRO-KEM, INC.
LOVINGTON YARD
LEA COUNTY, NEW MEXICO
NMOCD REF 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-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-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

TABLE 2

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-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-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
WQCC Standard		0.01	0.75	0.75	TOTAL XYLENES		0.62		0.002

February 08, 2013

JOEL LOWRY

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 01/31/13 14:15.

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.

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:	01/31/2013	Sampling Date:	01/29/2013
Reported:	02/08/2013	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 (H300286-01)

Volatile 8260		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	1.50	0.010	02/04/2013	ND	0.020	100	0.0200	6.32	
Benzene*	<0.001	0.001	02/04/2013	ND	0.019	97.4	0.0200	5.10	
Toluene*	<0.001	0.001	02/04/2013	ND	0.020	100	0.0200	0.248	
Ethylbenzene*	<0.001	0.001	02/04/2013	ND	0.019	94.8	0.0200	4.99	
m+p - Xylene*	<0.002	0.002	02/04/2013	ND	0.038	95.0	0.0400	4.05	
o-Xylene*	<0.001	0.001	02/04/2013	ND	0.018	92.1	0.0200	5.54	
Total Xylenes*	<0.003	0.003	02/04/2013	ND	0.056	94.1	0.0600	4.54	

<i>Surrogate: Dibromofluoromethane</i>	<i>110 %</i>	<i>70.2-143</i>
<i>Surrogate: Toluene-d8</i>	<i>102 %</i>	<i>73.8-118</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>102 %</i>	<i>48-134</i>

Cardinal Laboratories

*=Accredited Analyte

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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:	01/31/2013	Sampling Date:	01/29/2013
Reported:	02/08/2013	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 (H300286-02)

Volatile 8260		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.020	0.001	02/04/2013	ND	0.020	100	0.0200	6.32	
Benzene*	<0.001	0.001	02/04/2013	ND	0.019	97.4	0.0200	5.10	
Toluene*	<0.001	0.001	02/04/2013	ND	0.020	100	0.0200	0.248	
Ethylbenzene*	<0.001	0.001	02/04/2013	ND	0.019	94.8	0.0200	4.99	
m+p - Xylene*	<0.002	0.002	02/04/2013	ND	0.038	95.0	0.0400	4.05	
o-Xylene*	<0.001	0.001	02/04/2013	ND	0.018	92.1	0.0200	5.54	
Total Xylenes*	<0.003	0.003	02/04/2013	ND	0.056	94.1	0.0600	4.54	

<i>Surrogate: Dibromofluoromethane</i>	<i>102 %</i>	<i>70.2-143</i>
<i>Surrogate: Toluene-d8</i>	<i>95.0 %</i>	<i>73.8-118</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>94.9 %</i>	<i>48-134</i>

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Analytical Results For:

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

Received:	01/31/2013	Sampling Date:	01/29/2013
Reported:	02/08/2013	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 (H300286-03)

Volatile 8260		mg/L		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Carbon tetrachloride*	0.134	0.001	02/01/2013	ND	0.020	100	0.0200	6.32	
Benzene*	<0.001	0.001	02/01/2013	ND	0.019	97.4	0.0200	5.10	
Toluene*	<0.001	0.001	02/01/2013	ND	0.020	100	0.0200	0.248	
Ethylbenzene*	<0.001	0.001	02/01/2013	ND	0.019	94.8	0.0200	4.99	
m+p - Xylene*	<0.002	0.002	02/01/2013	ND	0.038	95.0	0.0400	4.05	
o-Xylene*	<0.001	0.001	02/01/2013	ND	0.018	92.1	0.0200	5.54	
Total Xylenes*	<0.003	0.003	02/01/2013	ND	0.056	94.1	0.0600	4.54	

<i>Surrogate: Dibromofluoromethane</i>	<i>104 %</i>	<i>70.2-143</i>
<i>Surrogate: Toluene-d8</i>	<i>95.0 %</i>	<i>73.8-118</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91.6 %</i>	<i>48-134</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

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Celey D. Keene, Lab Director/Quality Manager

Cardinal Laboratories

101 East Marland
Hobbs, NM 88240
Tel (575) 393-2326
Fax (575) 393-2476

Company Name: Basin Environmental Service Technologies, LLC	Phone #: (575)396-2378
Address: P.O. Box 301 Lovington, NM 88260	Fax #: (575)396-1429
Contact Person: Joel Lowry (Basin)	E-mail: pm@basinenv.com prokem@windstream.net
Invoice to: Basin Environmental Service Technologies, LLC	
Project #: _____	Project Name: Lovington Yard (API-119)
Project Location: Lea Co., NM	Sampler Signature: <i>Joel Lowry</i>

ANALYSIS REQUEST

(Circle or Specify Method No.)

LAB ID	SAMPLE ID	(G)RAB or (C)OMP	# CONTAINERS	MATRIX				PRESERVATIVE METHOD					SAMPLING		DATE	TIME	BTEX 8021B	Carbon Tetrachloride	Turn Around Time if different from standard	Hold
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE							
<i>H3002816</i>																				
1	MW-2	G	2	X				X				X			1/29	9:20	X	X		
2	MW-3	G	2	X				X				X			1/29	11:20	X	X		
3	MW-1	G	2	X				X				X			1/29	9:30	X	X		

Relinquished by: <i>Joel Lowry Basin</i>	Company: <i>Basin Env</i>	Date: <i>12/13</i>	Time: <i>13:00</i>	Received by: <i>Joel Lowry</i>	Company: <i>Basin Env</i>	Date: <i>1/31/13</i>	Time: <i>06:00</i>	INST _____	OBS _____ °C	COR _____ °C
Relinquished by: <i>Joel Lowry Basin</i>	Company: <i>Basin Env</i>	Date: <i>12/13</i>	Time: <i>13:05</i>	Received by: <i>Joel Lowry</i>	Company: <i>Basin Env</i>	Date: <i>1/31/13</i>	Time: <i>13:45</i>	INST _____	OBS _____ °C	COR _____ °C
Relinquished by: <i>Joel Lowry Basin</i>	Company: <i>Basin Env</i>	Date: <i>1/20/13</i>	Time: <i>14:15</i>	Received by: <i>Joel Lowry</i>	Company: <i>Basin Env</i>	Date: <i>1/31/13</i>	Time: <i>14:15</i>	INST <i>226</i>	OBS <i>40</i> °C	COR <i>40</i> °C

LAB USE ONLY

Intact Y N

Headspace Y N N/A

Log-in Review _____

Carrier # _____

REMARKS:

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed

Submission of samples constitutes agreement to Terms and Conditions

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