

AP – 119

Q3 GWMR

09 / 05 / 2014

August 14, 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 08/07/14 11:15.

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](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:**

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

Received:	08/07/2014	Sampling Date:	08/07/2014
Reported:	08/14/2014	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 (H402430-01)**

Volatile 8260		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Carbon tetrachloride*</b>	<b>0.063</b>	0.002	08/08/2014	ND	0.019	95.4	0.0200	4.21	
Benzene*	<0.002	0.002	08/08/2014	ND	0.018	89.6	0.0200	2.26	
Toluene*	<0.002	0.002	08/08/2014	ND	0.019	95.2	0.0200	4.17	
Ethylbenzene*	<0.002	0.002	08/08/2014	ND	0.018	92.4	0.0200	3.98	
m+p - Xylene*	<0.005	0.005	08/08/2014	ND	0.043	108	0.0400	3.90	
o-Xylene*	<0.002	0.002	08/08/2014	ND	0.021	104	0.0200	3.53	
Total Xylenes*	<0.008	0.008	08/08/2014	ND	0.064	107	0.0600	3.78	
<hr/>									
Surrogate: Dibromofluoromethane	96.3 %	87.3-113							
Surrogate: Toluene-d8	112 %	89.6-110							
Surrogate: 4-Bromofluorobenzene	101 %	82.3-119							

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: 08/07/2014  
Reported: 08/14/2014  
Project Name: LOVINGTON YARD (AP1-119)  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 08/06/2014  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: MW-2 (H402430-02)**

Volatile 8260			mg/L		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Carbon tetrachloride*</b>	<b>0.185</b>	0.002	08/08/2014	ND	0.019	95.4	0.0200	4.21	
Benzene*	<0.002	0.002	08/08/2014	ND	0.018	89.6	0.0200	2.26	
Toluene*	<0.002	0.002	08/08/2014	ND	0.019	95.2	0.0200	4.17	
Ethylbenzene*	<0.002	0.002	08/08/2014	ND	0.018	92.4	0.0200	3.98	
m+p - Xylene*	<0.005	0.005	08/08/2014	ND	0.043	108	0.0400	3.90	
o-Xylene*	<0.002	0.002	08/08/2014	ND	0.021	104	0.0200	3.53	
Total Xylenes*	<0.008	0.008	08/08/2014	ND	0.064	107	0.0600	3.78	
<hr/>									
Surrogate: Dibromofluoromethane	91.7 %	87.3-113							
Surrogate: Toluene-d8	108 %	89.6-110							
Surrogate: 4-Bromofluorobenzene	96.8 %	82.3-119							

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Received: 08/07/2014  
Reported: 08/14/2014  
Project Name: LOVINGTON YARD (AP1-119)  
Project Number: NONE GIVEN  
Project Location: LEA COUNTY, NM

Sampling Date: 08/06/2014  
Sampling Type: Water  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: MW-3 (H402430-03)**

Volatile 8260			mg/L		Analyzed By: ck				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<b>Carbon tetrachloride*</b>	<b>0.005</b>	0.0005	08/11/2014	ND	0.019	95.4	0.0200	4.21	
Benzene*	<0.0005	0.0005	08/11/2014	ND	0.018	89.6	0.0200	2.26	
Toluene*	<0.0005	0.0005	08/11/2014	ND	0.019	95.2	0.0200	4.17	
Ethylbenzene*	<0.0005	0.0005	08/11/2014	ND	0.018	92.4	0.0200	3.98	
m+p - Xylene*	<0.001	0.001	08/11/2014	ND	0.043	108	0.0400	3.90	
o-Xylene*	<0.0005	0.0005	08/11/2014	ND	0.021	104	0.0200	3.53	
Total Xylenes*	<0.002	0.002	08/11/2014	ND	0.064	107	0.0600	3.78	
Surrogate: Dibromofluoromethane	95.2 %	87.3-113							
Surrogate: Toluene-d8	106 %	89.6-110							
Surrogate: 4-Bromofluorobenzene	97.2 %	82.3-119							

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Celey D. Keene, Lab Director/Quality Manager

### Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
BS2	Blank spike recovery below laboratory acceptance criteria. Results for analyte potentially biased low.
BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
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:

E-mail:

[pm@basineny.com](mailto:pm@basineny.com)

Invoice to: Basin Environmental Service Technologies, LLC

Project #:

Pro-Kem

Project Name:

Lovington Yard AP-119

Project Location: Lea Co., NM  
(include state)Sampler  
Signature: *Paul Henry*LAB ID  
(LAB USE ONLY)

(G)RAB or (C)OMP

# CONTAINERS

WATER  
SOIL  
AIR  
SLUDGEHCL  
HNO<sub>3</sub>  
H<sub>2</sub>SO<sub>4</sub>  
NaOH  
ICE  
NONE

DATE

TIME

THP  
Carbon Tetra Chloride  
BTEX

Turn Around Time if different from standard

Hold

## ANALYSIS REQUEST

(Circle or Specify Method No.)

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

Company: Date: Time:

INST \_\_\_\_\_  
OBS \_\_\_\_\_ °C  
COR \_\_\_\_\_ °CINST \_\_\_\_\_  
OBS \_\_\_\_\_ °C  
COR \_\_\_\_\_ °C

LAB USE ONLY

REMARKS:

Relinquished by: Company: Date: Time:

Received by: Company: Date: Time:

Company: Date: Time:

INST \_\_\_\_\_  
OBS \_\_\_\_\_ °C  
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OBS \_\_\_\_\_ °C  
COR \_\_\_\_\_ °C

LAB USE ONLY

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Company: Date: Time:

INST \_\_\_\_\_  
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COR \_\_\_\_\_ °CINST \_\_\_\_\_  
OBS \_\_\_\_\_ °C  
COR \_\_\_\_\_ °C

LAB USE ONLY

REMARKS:

☐ Dry Weight Basis Required☐ TRRP Report Required☐ Check if Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions

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