

October 16, 2012

JOE TOVAR

READ &amp; STEVENS

P.O. BOX 1719

LOVINGTON, NM 88260

**HOBBS OCD****OCT 17 2012****RECEIVED**

RE: LUCY FEDERAL #2 WATERLINE

Enclosed are the results of analyses for samples received by the laboratory on 10/12/12 14:55.

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](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

10/17

**Analytical Results For:**

 READ & STEVENS  
 JOE TOVAR  
 P.O. BOX 1719  
 LOVINGTON NM, 88260  
 Fax To: not given

 Received: 10/12/2012  
 Reported: 10/16/2012  
 Project Name: LUCY FEDERAL #2 WATERLINE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 10/12/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: N. SIDE (H202488-01)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/16/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PII) 102 % 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	16.0	16.0	10/16/2012	ND	400	100	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	10/13/2012	ND	179	89.3	200	4.40		
DRO >C10-C28	<10.0	10.0	10/13/2012	ND	170	84.8	200	8.47		

Surrogate: 1-Chlorooctane 88.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 88.8 % 63.6-154

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 READ & STEVENS  
 JOE TOVAR  
 P.O. BOX 1719  
 LOVINGTON NM, 88260  
 Fax To: not given

 Received: 10/12/2012  
 Reported: 10/16/2012  
 Project Name: LUCY FEDERAL #2 WATERLINE  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 10/12/2012  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S. SIDE (H202488-02)**

BTEX 8021B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/16/2012	ND	2.07	104	2.00	10.6		
Toluene*	<0.050	0.050	10/16/2012	ND	1.89	94.6	2.00	9.65		
Ethylbenzene*	<0.050	0.050	10/16/2012	ND	1.87	93.5	2.00	9.26		
Total Xylenes*	<0.150	0.150	10/16/2012	ND	5.53	92.2	6.00	8.46		

Surrogate: 4-Bromofluorobenzene (PII) 101 % 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	<16.0	16.0	10/16/2012	ND	400	100	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	10/15/2012	ND	181	90.3	200	0.0725		
DRO >C10-C28	<10.0	10.0	10/15/2012	ND	175	87.3	200	1.06		

Surrogate: 1-Chlorooctane 77.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 77.6 % 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

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Celey D. Keene, Lab Director/Quality Manager

