



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 05, 2014

HOBBS OCD

**BRIAN WALL** 

MAY 2 1 2014

LINN OPERATING-HOBBS

2130 W. BENDER

5/21

HOBBS, NM 88240

RECEIVED

Enclosed are the results of analyses for samples received by the laboratory on 04/29/14 11:15.

WILL RESAMPLE 40 NAMIEY DRUP

From 608 - 32

RE: EAST HOBBS #910

DUE TO COVER

HAVINU BAZN

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.tceg.texas.gov/field/ga/lab accred certif.html.

EMPLACED PRIOR TO SAMPLMUZ

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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





LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:

04/29/2014

Reported:

Chlorida SMAEROCL-R

05/05/2014

Project Name: Project Number: EAST HOBBS #910 NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Jodi Henson

## Sample ID: FINAL SAMPLE (H401273-01)

Chloride, Si44300Cl-b	ıııg,	Ng .	Allaryzo	u by. Ar					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/30/2014	ND	400	100	400	0.00	

Analyzed By: AD

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed walved unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based unon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approved of Cardinal Laboratories.

Celey D. Keine



#### **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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Linn Energy		BILL TO		ANALYSIS	REQUEST
Project Manager:		P.O. #:			
Address:		Company:			
City: State:	Zip:	Attn:			
Phone #: Fax #:		Address:	1		
Project #: Project Owner:		City:			
Project Name: E. Holds Unit #	910	State: Zip:	]		
Project Location:		Phone #:			
Sampler Name: David Senton	The second second	Fax #:			
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING			
Lab I.D. Sample I.D. 1401273 1 Final Sample	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OTHER: ACID/BASE: OCE / COOL OTHER: ACID/BASE: OTHER: OTHER:	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
LEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for an nalyses. All claims including those for negligence and any other cause whatsoever shall be derivice. In no event shall cardinal be liable for incidental or consequental damages, including rilliates or successors arising out of or related to the performance of services hereunder by Cardinquished By:    Date:   Time:   Date:   Da	eemed waived unless made in writing an without limitation, business interruptions,	nd received by Cardinal within 30 days after completion of ti, loss of use, or loss of profits incurred by client, its subsidis is libiased upon any of the above stated reasons or otherein.  Phone Re Fax Result	he applicable aries, se.  se.  It:		

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



March 07, 2014

HOBBS OCD

IKE TAVAREZ

MAR 1 7 2014

TETRA TECH

MIDLAND, TX 79705

1910 N. BIG SPRING STREET

RECEIVED

RE: WELL #910

Enclosed are the results of analyses for samples received by the laboratory on 03/03/14 14:05.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keine

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,

SAMRE DEEPER @ AH-1 &AH-3 FOR CHLURIDES

EXCANATE TOP I'MAH-H

Celey D. Keene

Lab Director/Quality Manager

Environmental Specialist

3117/14

EHSAUNIT #910



**TETRA TECH IKE TAVAREZ** 1910 N. BIG SPRING STREET MIDLAND TX, 79705 (432) 682-3946

Fax To:

Received: Reported: 03/03/2014

03/07/2014

Project Name:

WELL #910

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Jodi Henson Sample Received By:

Sample ID: AH-1 0-1 (H400631-01)

BTEX 8260B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	< 0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	< 0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	<0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	101 9	61.3-14	2						
Surrogate: Toluene-d8	105	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	105	65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/05/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND					
Surrogate: 1-Chlorooctane	98.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	102	63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



TETRA TECH IKE TAVAREZ 1910 N. BIG SPRING STREET MIDLAND TX, 79705

Fax To:

o:

(432) 682-3946

Received:

03/03/2014

Reported:

03/07/2014

Project Name: Project Number: WELL #910 NONE GIVEN

Project Location:

NONE GIVEN
EDDY COUNTY, NM

Sampling Date:

416

BS

03/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

### Sample ID: AH-1 1-1.5 (H400631-02)

Chloride.	SM4500CI-B
cilioniae,	311130001 0

#### mg/kg

#### Analyzed By: AP

Analyte

Result Reporting Limit

orting Limit Analyzed
16.0 03/05/2014

Method Blank ND BS % Recovery

104

True Value QC 400 RPD Qualifier

3.92

Chloride

### Sample ID: AH-1 2-2.5 (H400631-03)

Chloride, SM4500Cl-B	Chloride,	SM4500CI-B
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#### mg/k

16.0

#### Analyzed By: AP

Analyte

Result Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

RPD Qualifier

**Chloride** 576 16.0 03/05/2014 ND 416 104 400 3.92

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 14



TETRA TECH
IKE TAVAREZ
1910 N. BIG SPRING STREET
MIDLAND TX, 79705
Fax To: (432) 682-3946

Received:

03/03/2014

Reported:

03/07/2014

Project Name: Project Number: WELL #910 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: AH-2 0-1 (H400631-04)

BTEX 8260B	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	< 0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	< 0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	96.0	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
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	03/05/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND					
Surrogate: 1-Chlorooctane	96.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



**TETRA TECH IKE TAVAREZ** 1910 N. BIG SPRING STREET MIDLAND TX, 79705 Fax To: (432) 682-3946

Received:

03/03/2014

Reported:

03/07/2014

Project Name: Project Number: WELL #910 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: AH-2 1-1.5 (H400631-05)

Chloride,	SM4500CI-B
-----------	------------

Chloride

Chloride

#### Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Analyzed , 03/05/2014 Method Blank ND

BS % Recovery 416

104

True Value QC 400

Oualifier RPD

3.92

Sample ID: AH-2 2-2.5 (H400631-06)

#### Chloride, SM4500Cl-B

<16.0

#### Analyzed By: AP

Analyte Reporting Limit Result <16.0 16.0

Analyzed 03/05/2014 Method Blank ND

% Recovery 104

BS

416

True Value QC 400

**RPD** 3.92 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 14



**TETRA TECH IKE TAVAREZ** 1910 N. BIG SPRING STREET MIDLAND TX, 79705 Fax To: (432) 682-3946

03/03/2014

Received: Reported:

03/07/2014 WELL #910

Project Name: Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: AH-3 0-1 (H400631-07)

BTEX 8260B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	< 0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	< 0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	< 0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	95.8	% 61.3-14.	2						
Surrogate: Toluene-d8	101	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	64.0	16.0	03/05/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	194	97.0	200	9.21	
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND					
Surrogate: 1-Chlorooctane	93.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keene



**TETRA TECH IKE TAVAREZ** 1910 N. BIG SPRING STREET MIDLAND TX, 79705 Fax To: (432) 682-3946

Received: Reported: 03/03/2014

03/07/2014

Project Name: Project Number:

WELL #910 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

## Sample ID: AH-3 1-1.5 (H400631-08)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/05/2014	ND	416	104	400	3.92	
Sample ID: AH-3 2-2.5 (	H400631-09)								
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	03/05/2014	ND	416	104	400	3.92	
Sample ID: AH-3 3-3.5 (	H400631-10)								
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	03/05/2014	ND	416	104	400	3.92	

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



**TETRA TECH IKE TAVAREZ** 1910 N. BIG SPRING STREET MIDLAND TX, 79705 Fax To: (432) 682-3946

Received:

03/03/2014

Reported:

03/07/2014

Project Name: Project Number: WELL #910 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

## Sample ID: AH-4 0-1 (H400631-11)

BTEX 8260B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	<0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	< 0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	< 0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	93.9	% 61.3-14.	2						
Surrogate: Toluene-d8	104	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	106	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	205	102	200	6.43	
DRO >C10-C28	1480	10.0	03/05/2014	ND	194	97.0	200	9.21	
EXT DRO >C28-C35	1310	10.0	03/05/2014	ND					
Surrogate: 1-Chlorooctane	92.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	122	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



TETRA TECH IKE TAVAREZ 1910 N. BIG SPRING STREET MIDLAND TX, 79705

Fax To:

(432) 682-3946

Received:

03/03/2014

Reported:

03/07/2014

Project Name: Project Number: WELL #910 NONE GIVEN

Project Location:

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: AH-4 1-1.5 (H400631-12)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2014	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/07/2014	ND	194	97.1	200	8.76	
DRO >C10-C28	70.3	10.0	03/07/2014	ND	232	116	200	7.85	
EXT DRO >C28-C35	77.6	10.0	03/07/2014	ND					
Surrogate: 1-Chlorooctane	103 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	114 9	% 63.6-15	4						

#### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



TETRA TECH **IKE TAVAREZ** 1910 N. BIG SPRING STREET MIDLAND TX, 79705

Fax To:

(432) 682-3946

Received:

03/03/2014

Reported:

03/07/2014

Project Name: Project Number: WELL #910

Project Location:

NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

03/03/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

#### Sample ID: AH-5 0-1 (H400631-13)

BTEX 8260B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	03/05/2014	ND	2.24	112	2.00	0.979	
Toluene*	< 0.050	0.050	03/05/2014	ND	2.33	117	2.00	0.332	
Ethylbenzene*	< 0.050	0.050	03/05/2014	ND	2.28	114	2.00	2.39	
Total Xylenes*	< 0.150	0.150	03/05/2014	ND	6.91	115	6.00	1.92	
Total BTEX	<0.300	0.300	03/05/2014	ND					
Surrogate: Dibromofluoromethane	96.5	% 61.3-14	2						
Surrogate: Toluene-d8	103	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102	% 65.7-14	1						
Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/05/2014	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/05/2014	ND	208	104	200	7.01	
DRO >C10-C28	<10.0	10.0	03/05/2014	ND	204	102	200	6.86	
EXT DRO >C28-C35	<10.0	10.0	03/05/2014	ND					
Surrogate: 1-Chlorooctane	99.3	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	100	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



TETRA TECH IKE TAVAREZ 1910 N. BIG SPRING STREET MIDLAND TX, 79705

Fax To:

(432) 682-3946

Received:

03/03/2014

Sampling Date:

03/03/2014

Reported:

03/07/2014

Sampling Type:

Soil

Project Name:

WELL #910

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

#### Sample ID: AH-5 1-1.5 (H400631-14)

Chio	ride, SM45UUCI-B	mg/	кд	Analyze	d By: AP						
	Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chlor	ride	<16.0	16.0	03/05/2014	ND	416	104	400	3.92		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



#### **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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keens



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

	(575) 393-2326 FAX (575) 393-2	476						1		1.														
Company Name	0: Tetra Fech										:][	L TO						ANA	LYSI	S RE	QUE	ST		
Project Manage	or: Te. TAVANA							P.	0. #	:								T						
Address: 4000	on By Spring							Co	mp	any	1	ETRA 7	ECH											
City: Midla	State: 12	Zij	p: 1	970	T			At															- 1	
Phone #: \32	-682-4585 Fax#:							Ad	ldre	ss:														
Project #:	Project Ow	ner:	Lig	7	Cu.	144	ч	Ci	ty:															
Project Name:	(Del) \$ 910							St	ate:			Zip:												
Project Locatio	in: Edely Co, wm							Ph	one	#:														
Sampler Name:								Fa	x #:	_														
FOR LAB USE ONLY					M	ATRI	X	_	PR	ESE	RV.	SAMPLI	NG	1		,	1							
1985 W	7	(C)OMP	S	2	~						1	186				3								
Lab I.D.	Sample I.D.	(G)RAB OR (C)	AIN	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	2AIM DATE	TIME	麦	Brex	CHIDA								
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	and Damages. Cardinal's liability and client's exclusive remed- ting those for negligence and any other cause whatsoever sha																		-		-			
mining acts. All Utalling Inchud	and nower on includence and any other hards attended attended and	IN NE GEGILI	WIND WHIST	THE WITH	PER STREET,	water with	and the same	THE STREET	and the same of	y ward	100 90	norms orollogy's alle	www.rightcutti 01 t	one dispersion	Tarrest.									

service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries

affiliates or successors arising out of or related to the performan	ice of services hereunder by	Cardinal, regardless of whether such claim is based upon	any of the above stated re-	asons or otherwise.
Relinquished By:	Date:	Received By:		Phone Result:
211	3-3-14	1/n1: 11.	(D) 4A	Fax Result:
Man 15/2	Time:	Male . Wells	000	REMARKS: Run deeper scapes if Berzere is greater than 10mg/hy
	1405	your grown		in secto scapes is a sector is 3
Relinquished By:	Date:	Received By:		or Total BIGE'S grate then 50 y 1/2
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	Time:			· · · · · · · · · · · · · · · · · · ·
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Sampler - UPS - Bus - Other:		7. 2 Tyes Pyes	1754	Email results to like tovare etetratech. con
		I No I No	1.	



# **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

Company Name	TETRA TER	H									E	][	L TO		201					ANA	LYS	IS	RE	QUE	ST			
Project Manager	r:								P.	0. #:					Г					T	T						T	T
Address:									Co	mpa	any:	Te	Ja Te	ch	1													
City:		State:	Zip	):						tn:							- 1											
Phone #:		Fax #:							Ad	dres	ss:																	
Project #:		Project Owne	r:						Ci	y:																		
Project Name: 6									St	ate:			Zip:															
Project Location	1: Edely Co, Nm								Ph	one	#:																	
Sampler Name:									Fa	x #:							- 1											
FOR LAB USE ONLY			L	Γ	Г	A	MATE	RIX		PRE	SER	₹V.	SAMPLI	ING	1													
Lab I.D.	Sample	I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	70.1	HAI	OTEX	CHLGHTON										
	1.0 A-HV		6	1	L		2				X		3-3		1	4	X	×										
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14 15	AH-5 0-1 1-1.5		0	0			4				b				2	-	×	T			1	+						
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analyses. All claims including service. In no event shall Craffiliates or successors arise Relinquished By Relinquished By Relinquished By	1. N	r cause whatsoever shall be sequental damages, including	deeme	d waive	ved untration, ardiess	By:	ple C	riting a ruptions ch claim	d rece loss on is base	f use, o	Cardin or loss on any o	of proof the	thin 30 days afte offs incurred by a above stated re	er completion of client, its subsidi	the app aries, ise. esult:	: C	Yes Yes		No No	Add'	I Phor I Fax i	<b>#</b> :		sh		3/	6/19	/. Cl
Sampler - UPS	- Bus - Other:		5.			Cool	Yes [	Ye	s		4	D	ED BY: als)															



March 19, 2014

**BRIAN WALL** 

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: EAST HOBBS #910

Enclosed are the results of analyses for samples received by the laboratory on 03/18/14 9:35.

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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated 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.

Celeg D. Keine

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



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240

Fax To:

(575) 738-1740

Received:

03/18/2014

Reported:

03/19/2014

Project Name:

EAST HOBBS #910

Project Number: Project Location: NONE GIVEN

NOT GIVEN

Sampling Date:

03/18/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Celey D. Keene

Sample ID: #1 (H400807-01)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2014	ND	2.20	110	2.00	0.692	
Toluene*	< 0.050	0.050	03/19/2014	ND	2.07	104	2.00	0.762	
Ethylbenzene*	<0.050	0.050	03/19/2014	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.82	97.0	6.00	0.549	
Total BTEX	<0.300	0.300	03/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/19/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/19/2014	ND	228	114	200	6.70	
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	225	112	200	1.08	
Surrogate: 1-Chlorooctane	105 9	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	113 9	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



LINN OPERATING-HOBBS **BRIAN WALL** 2130 W. BENDER HOBBS NM, 88240

Fax To:

(575) 738-1740

Received:

03/18/2014

03/19/2014

Reported: Project Name:

EAST HOBBS #910

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

03/18/2014

Sampling Type: Sampling Condition: Soil

Sample Received By:

Cool & Intact

Celey D. Keene

## Sample ID: #3 (H400807-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2014	ND	2.20	110	2.00	0.692	
Toluene*	<0.050	0.050	03/19/2014	ND	2.07	104	2.00	0.762	
Ethylbenzene*	< 0.050	0.050	03/19/2014	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.82	97.0	6.00	0.549	
Total BTEX	<0.300	0.300	03/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/19/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/19/2014	ND	228	114	200	6.70	
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	225	112	200	1.08	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	111 9	63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



LINN OPERATING-HOBBS BRIAN WALL 2130 W. BENDER HOBBS NM, 88240 Fax To: (575) 738-1740

Received:

03/18/2014

Reported:

03/19/2014

Project Name: Project Number: EAST HOBBS #910

Project Number:
Project Location:

NONE GIVEN

Sampling Date:

03/18/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact Celey D. Keene

Sample Received By:

Sample Received by

Sample ID: #4 (H400807-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/19/2014	ND	2.20	110	2.00	0.692	
Toluene*	< 0.050	0.050	03/19/2014	ND	2.07	104	2.00	0.762	
Ethylbenzene*	< 0.050	0.050	03/19/2014	ND	2.01	101	2.00	1.19	
Total Xylenes*	<0.150	0.150	03/19/2014	ND	5.82	97.0	6.00	0.549	
Total BTEX	<0.300	0.300	03/19/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 %	6 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/19/2014	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/19/2014	ND	228	114	200	6.70	
DRO >C10-C28	<10.0	10.0	03/19/2014	ND	225	112	200	1.08	
Surrogate: 1-Chlorooctane	80.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.5	% 63.6-15	4						

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\*=Accredited Analyte

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Celey D. Keine



#### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celeg D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	(575) 393-2326 FAX (575) 393- e: Linn Energy		1	7						(重量(*))		4			-	ANAL	YSIS	RE	QUES	ST			Ţ.,
Project Manage	e: Linn Energy er: Frud Ramany						P.	0. #:		The State of the S									-				
Address:	/						Co	mpa	ny:														
City:	State:	Zi	p:				At	tn:															
Phone #:	Fax #:						Ac	dres	s:							1							
Project #: <del>East</del>	Hoss #910 Project On	vner:					Ci	ty:									- 1						
Project Name:	East Hobias 4510			1			St	ate:		Zip:									,				
	in: LEA County						Ph	one	#:			1											
Sampler Name:	,						Fa	x #:			2												~
FOR LAB USE ONLY			T		MA	TRIX		PRE	SERV	SAMPL	ING	1											
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