

RECEIVED

By OCD District 1 at 8:44 am, Jul 14, 2015

NOT APPROVED



Caprock Maljamar Unit #99

REMEDIATION WORK PLAN

API No. 30-025-01532

Release Date: June 4th, 2014

Unit Letter N, Section 28, Township 17 South, Range 33 East

May 26th, 2015

Prepared by:

Environmental Department
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240
Phone: (575)964-8394
Fax: (575)393-8396

Kelly Jones
1625 N. French Dr.
Hobbs, NM 88240

RE: Linn Energy Caprock Maljamar Unit #99 – Remediation Work Plan
UL/N, Section 28, T17S, R33E
API No. 30-025-01532

Ms. Jones,

Linn Energy (Linn) has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Maljamar NM, in Lea County. The leak site resulted from a failure of an injection line. The impacted area starts at the well and runs west for approximately 580'. A C-141 was submitted to the NMOCD on June 5th, 2014.

Site Assessment and Delineation

On August 26th, 2014 Viper services turned in fifteen sample points of the leak area to Cardinal labs. The results are attached. On August 28th, 2014 Viper services turned in fifteen sample points of the leak area to Cardinal labs the results are attached. On October 16th, 2014 Viper services turned in samples of the leak area to Cardinal labs. The results are attached. On October 21st, 2014 Viper services turned in samples of the leak area to Cardinal labs. The results are attached. On March 10th, 2015 DFSI personnel took five field samples of the spill area. Each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). The results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 210+ foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Conclusion

After careful review DFSI on behalf of Linn Energy would like to propose the following:

Remove 4' bgs in the areas of DFSI's SP's #1, #3 and #4. Backfill with native soil and re contour. Re seed with a BLM, OCD approved seed mix.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,



Michael Burton
Environmental Operations Director
Diversified Field Service, Inc.
206 West Snyder
Hobbs, NM 88240
Office: (575)964-8394
Mobile: (575)390-5454
Fax: (575)964-8396
Email: Mburton@diversifiedfsi.com

cc Jeff Robertson

Attachments: Initial Form C-141
Site/Sample Map
Sample Data
Lab Analytical Data

Site Diagram

Linn, CMU #99
UL/N, Sec. 28 T17S R33E
Lea County, NM
Drafted By: Lance Crenshaw, 4-28-15

0 0.0075 0.015 0.03 Miles

Legend



Misc_points

Types


-  Electrical Box
-  Power Pole
-  Headers
-  Injection
-  Pumpjacks
-  Tanks
-  Valves
-  Other
-  Soil Bores
-  sample_pts
-  Source

Pipeline





Type

-  Above Ground Line
-  Buried Line

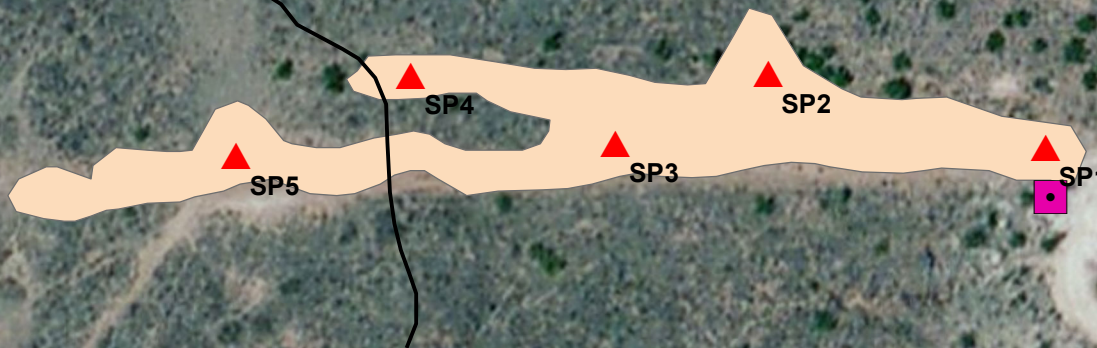
Spill

-  <all other values>

Spill_Media

-  Oil and Produced H2O
-  Oil
-  Other
-  Produced Water

Spill Area:
22,712 sq. ft.



Lance Crenshaw
GIS Technician

Soil Remediation and Ground Water Remediation
Environmental Assessments
Regulatory Compliance



Environmental **DFSI** Services

Office: 575-964-8394
Fax: 575-964-8396

Cell: 575-441-2359
Email: lcrenshaw@diversifiedfsi.com

Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA
swisstopo, and the GIS User Community

Diversified Environmental Services

Company Name: LINN ENERGY
Location Name: CMU 99

SP Date: 3/10/2015
Rel Date:

[illegible]

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 03713	L	LE		3	4	1	28	17S	33E	624391	3630617*	210		

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

Basin/County Search:

County: Lea

PLSS Search:

Section(s): 28

Township: 17S

Range: 33E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



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

September 03, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: CMU #099

Enclosed are the results of analyses for samples received by the laboratory on 08/28/14 15:40.

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 black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/28/2014
 Reported: 09/03/2014
 Project Name: CMU #099
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 08/27/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ 1' (H402654-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 2 @ 4' (H402654-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5680	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 3 @ 2' (H402654-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 4 @ 4' (H402654-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3120	16.0	09/03/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/28/2014
 Reported: 09/03/2014
 Project Name: CMU #099
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 08/27/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 5 @ 4' (H402654-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 6 @ 1' (H402654-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 7 @ 4' (H402654-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8000	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 8 @ 4' (H402654-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7120	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 9 @ 1' (H402654-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	09/03/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/28/2014
 Reported: 09/03/2014
 Project Name: CMU #099
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 08/28/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 10 @ 4' (H402654-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3920	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 11 @ 1' (H402654-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 12 @ 4' (H402654-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7330	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 13 @ 4' (H402654-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5440	16.0	09/03/2014	ND	400	100	400	0.00	

Sample ID: SP 14 @ 1' (H402654-14)

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	09/03/2014	ND	400	100	400	0.00	

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:LINN OPERATING-HOBBS
BRIAN WALL
2130 W. BENDER
HOBBS NM, 88240
Fax To: (575) 738-1740Received: 08/28/2014
Reported: 09/03/2014
Project Name: CMU #099
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NMSampling Date: 08/28/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Jodi Henson**Sample ID: SP 15 @ 4' (H402654-15)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	09/03/2014	ND	400	100	400	0.00	

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*=Accredited Analyte

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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

[illegible]



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

September 03, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: CMU #099

Enclosed are the results of analyses for samples received by the laboratory on 08/26/14 16:55.

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 black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 08/26/2014
 Reported: 09/03/2014
 Project Name: CMU #099
 Project Number: NONE GIVEN
 Project Location: LEA COUTNY, NM

 Sampling Date: 08/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 1 @ SURFACE (H402626-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/29/2014	ND	416	104	400	3.92	

Sample ID: SP 2 @ SURFACE (H402626-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7600	16.0	08/29/2014	ND	416	104	400	3.92	

Sample ID: SP 3 @ SURFACE (H402626-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5280	16.0	08/29/2014	ND	416	104	400	3.92	

Sample ID: SP 4 @ SURFACE (H402626-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/29/2014	ND	416	104	400	3.92	

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received:	08/26/2014	Sampling Date:	08/26/2014
Reported:	09/03/2014	Sampling Type:	Soil
Project Name:	CMU #099	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUTNY, NM		

Sample ID: SP 5 @ SURFACE (H402626-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	08/29/2014	ND	416	104	400	3.92		

Sample ID: SP 6 @ SURFACE (H402626-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	08/29/2014	ND	416	104	400	3.92		

Sample ID: SP 7 @ SURFACE (H402626-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	08/29/2014	ND	400	100	400	3.92		

Sample ID: SP 8 @ SURFACE (H402626-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	08/29/2014	ND	400	100	400	3.92		

Sample ID: SP 9 @ SURFACE (H402626-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	08/29/2014	ND	400	100	400	3.92		

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/26/2014
 Reported: 09/03/2014
 Project Name: CMU #099
 Project Number: NONE GIVEN
 Project Location: LEA COUTNY, NM

Sampling Date: 08/26/2014
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 10 @ SURFACE (H402626-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	08/29/2014	ND	400	100	400	3.92		

Sample ID: SP 11 @ SURFACE (H402626-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	08/29/2014	ND	400	100	400	3.92	

Sample ID: SP 12 @ SURFACE (H402626-12)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	4960	16.0	08/29/2014	ND	400	100	400	3.92		

Sample ID: SP 13 @ SURFACE (H402626-13)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2800	16.0	08/29/2014	ND	400	100	400	3.92	

Sample ID: SP 14 @ SURFACE (H402626-14)

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	08/29/2014	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:LINN OPERATING-HOBBS
BRIAN WALL
2130 W. BENDER
HOBBS NM, 88240
Fax To: (575) 738-1740Received: 08/26/2014
Reported: 09/03/2014
Project Name: CMU #099
Project Number: NONE GIVEN
Project Location: LEA COUTNY, NMSampling Date: 08/26/2014
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson**Sample ID: SP 15 @ SURFACE (H402626-15)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	08/29/2014	ND	400	100	400	3.92	

Cardinal Laboratories

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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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Vipet Products & Services</u>		BILL TO		ANALYSIS REQUEST																															
Project Manager: <u>Paul Panscy</u>		P.O. #:																																	
Address:		Company: <u>LEMP</u>																																	
City:		Attn: <u>Brin Wall</u>																																	
State:		Address:																																	
Fax #:		City:																																	
Project #:		State:																																	
Project Name: <u>CMU 099</u>		Zip:																																	
Project Location: <u>Los Combs</u>		Phone #:																																	
Sampler Name: <u>Rebbie Kuhnelt</u>		Fax #:																																	
FOR LAB USE ONLY		PRESERV		SAMPLING																															
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME											
<u>H402626</u>	<u>SP10 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1448</u>		<u>✓</u>									
	<u>SP20 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1442</u>		<u>✓</u>									
	<u>SP30 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1445</u>		<u>✓</u>									
	<u>SP40 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1447</u>		<u>✓</u>									
	<u>SP50 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1501</u>		<u>✓</u>									
	<u>SP60 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1503</u>		<u>✓</u>									
	<u>SP70 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1506</u>		<u>✓</u>									
	<u>SP80 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1508</u>		<u>✓</u>									
	<u>SP90 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1519</u>		<u>✓</u>									
	<u>SP100 Surface</u>	<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>✓</u>		<u>8/24/14</u>		<u>1521</u>		<u>✓</u>									

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Relinquished By: <u>mu</u>	Date: <u>8/24/14</u>	Received By: <u>Rebbie Kuhnelt</u>	Time: <u>4:55</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <u>679 1527 @ Gmail, Can</u>
Relinquished By:	Date:	Received By:	Time:	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Delivered By: (Circle One)	4.70	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: <u>[Signature]</u>		
Sampler - UPS - Bus - Other:		<input type="checkbox"/> Yes <input type="checkbox"/> No			



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: <u>Viper Products & Services</u>		BILL TO		ANALYSIS REQUEST																							
Project Manager: <u>Fred Ramsey</u>		P.O. #:																									
Address:		Company: <u>LEND</u>																									
City:		Attn: <u>Brian Wall</u>																									
State:		Address:																									
Phone #:		City:																									
Fax #:		State:																									
Project #:		Zip:																									
Project Name: <u>Chm 099</u>		City:																									
Project Location: <u>Log County</u>		State:																									
Sampler Name: <u>Edith Kuhnels</u>		Phone #:																									
FOR LAB USE ONLY		Fax #:																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		MATRIX				PRESERV.		SAMPLING													
								GROUNDWATER																			
								WASTEWATER																			
								SOIL																			
								OIL																			
								SLUDGE																			
								OTHER :																			
								ACID/BASE:																			
								ICE / COOL																			
								OTHER :																			
								DATE																			
								TIME																			
<u>H4010106</u>		<u>SP11 @ surface</u>		<u>6-1</u>		<u>1</u>		<u>8/26/14</u>				<u>1523</u>		<u>✓</u>													
<u>11</u>		<u>SP12 @ surface</u>		<u>6-1</u>		<u>✓</u>		<u>1526</u>				<u>✓</u>															
<u>12</u>		<u>SP13 @ surface</u>		<u>6-1</u>		<u>✓</u>		<u>1535</u>				<u>✓</u>															
<u>13</u>		<u>SP14 @ surface</u>		<u>6-1</u>		<u>✓</u>		<u>1537</u>				<u>✓</u>															
<u>14</u>		<u>SP15 @ surface</u>		<u>6-1</u>		<u>✓</u>		<u>8/26/14</u>				<u>1540</u>		<u>✓</u>													
<u>15</u>																											

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Relinquished By:	Date: <u>8/26/14</u>	Received By: <u>Edith Kuhnels</u>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #:
Relinquished By: <u>lv</u>	Date: <u>8/26/14</u>	Received By: <u>Edith Kuhnels</u>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #:
Time: <u>4:55</u>				
Time:				

Delivered By: (Circle One)	Sample Condition	CHECKED BY:
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	<u>Edith Kuhnels</u>
	Yes <input type="checkbox"/> No <input type="checkbox"/>	

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

#54

rammels07@gmail.com

October 20, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: CMU #099

Enclosed are the results of analyses for samples received by the laboratory on 10/16/14 16:40.

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,



Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 Received: 10/16/2014
 Reported: 10/20/2014
 Project Name: CMU #099
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

 Sampling Date: 10/16/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Kathy Perez

Sample ID: SP 10 @ 12' (H403197-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	928	16.0	10/17/2014	ND	400	100	400	3.92	

Sample ID: SP 8 @ 12' (H403197-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	720	16.0	10/17/2014	ND	400	100	400	3.92		

Sample ID: SP 7 @ 12' (H403197-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	10/17/2014	ND	400	100	400	3.92	

Sample ID: SP 5 @ 5' (H403197-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	736	16.0	10/17/2014	ND	400	100	400	3.92	

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:LINN OPERATING-HOBBS
BRIAN WALL
2130 W. BENDER
HOBBS NM, 88240
Fax To: (575) 738-1740Received: 10/16/2014
Reported: 10/20/2014
Project Name: CMU #099
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NMSampling Date: 10/16/2014
Sampling Type: Soil
Sampling Condition: ** (See Notes)
Sample Received By: Kathy Perez**Sample ID: SP 4 @ 7' (H403197-05)****Chloride, SM4500Cl-B****mg/kg****Analyzed By: AP**

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	10/17/2014	ND	400	100	400	3.92	

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 5 of 5

Upper Product of

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

October 23, 2014

BRIAN WALL

LINN OPERATING-HOBBS

2130 W. BENDER

HOBBS, NM 88240

RE: CMU #099

Enclosed are the results of analyses for samples received by the laboratory on 10/21/14 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 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 black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 10/21/2014
 Reported: 10/23/2014
 Project Name: CMU #099
 Project Number: NONE GIVEN
 Project Location: LEA COUNTY, NM

Sampling Date: 10/21/2014
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: SP 2 @ 80' (H403226-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	10/22/2014	ND	400	100	400	0.00	

Sample ID: SP 12 @ 40' (H403226-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	10/22/2014	ND	400	100	400	0.00	

Sample ID: SP 13 @ 50' (H403226-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	10/22/2014	ND	400	100	400	0.00	

Sample ID: SP 15 @ 60' (H403226-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4040	16.0	10/22/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Page 4 of 4

(575) 393-2326 FAX (575) 393-2476

(575) 393-2326

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised October 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Linn Operating	Contact: Brian Wall	
Address: 2130 W. Bender Hobbs, NM 88240	Telephone No.: 575-738-1739	
Facility Name: CMU #99	Facility Type: Injection	
Surface Owner: State	Mineral Owner:	API No.: 30-025-01532

LOCATION OF RELEASE

Unit Letter N	Section 28	Township 17S	Range 33E	Feet from the 660	North/South Line South	Feet from the 1980	East/West Line West	County Lea
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Latitude: 32.8001317770603 **Longitude:** -103.670261601937

NATURE OF RELEASE


Type of Release: Produced Water	Volume of Release: 163 bbls	Volume Recovered: 0
Source of Release: Steel Pipeline	Date and Hour of Occurrence: 06/04/14	Date and Hour of Discovery: 06/04/14 0815
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jennifer Van Curen-BLM Tomas Oberding -NMOCD	
By Whom? Theresa McCracken	Date and Hour 06/05/14 0715	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*:

Describe Cause of Problem and Remedial Action Taken.*: At appx, 8:15a.m. on June 6, 2014 I arrived to the CMU# 99 to find the inj. Line blew of the well. The line was still pumping water, so therefore I closed the valve and produced water quit pumping. I then started investigating the cause. I found that the line off had nipples busted and bent.

Describe Area Affected and Cleanup Action Taken.* : The area affected was appx, 510' long and 108' wide at the widest part.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Brian Wall	Approved by District Supervisor:		
Title: Construction Foreman II	Approval Date:	Expiration Date:	
E-mail Address: bwall@linenergy.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 06/05/14	Phone: 806-367-0645		

* Attach Additional Sheets If Necessary