

APPROVED By JKeyes at 2:30 pm, Jan 06, 2016

> Stipulations: Removal of soil around SP1 and SP2 to 5' bgs. 20 mil liner to be used at the SP5 excavation.

CMU 42 (A Battery)

REMEDIATION WORK PLAN

API No. 30-025-01499

Release Date: July 7, 2015

Unit Letter C, Section 20, Township 17 South, Range 33 East

January 6, 2016

Prepared by:

Lance Crenshaw, Project Manager Environmental Department Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 Phone: (575)964-8394 Fax: (575)393-8396 Kellie Jones Environmental Specialist NM Oil Conservation District-Division 2 1625 N. French Hobbs, NM 88240

RE: Linn Energy, CMU #42 (A Battery) – Remediation Work Plan UL/C, Section 20, T17S, R33E API No. 30-025-01499

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 split in the poly line that runs from the transfer pump at the CMU A Battery to the CMU North Injection Plant. The poly line had a split on the bottom side. The leak ran down a slope towards the northeast for approximately 100', with the widest point of the leak at 40'. Approximately 10 bbls of produced water was released, with none recovered. A site map is attached. This spill occurred on top of the Caprock Escarpment. A C-141 was drafted on July 8, 2015.

Site Assessment and Delineation

On November 19, 2015 DFSI personnel responded to the release site to sample eight points of the spill area. The samples were tested for chloride levels as well as BTEX. The BTEX samples

On December 10, 2015 DFSI personnel returned to the site and to drill two bore holes for confirmation samples. SB1 was placed in between SP1 and SP2, and SB2 was placed in the area of SP5. Clean samples attained at the bore holes were taken to a commercial laboratory for confirmation. Those 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 190 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:

In the areas of SP1, SP2, and SP5, excavate to 4' BGS, install either river rock or a 20mil liner, and backfill with native topsoil. The area will be seeded with a BLM approved mix. Since the rest of the sample points were clean at the surface and down to 2' BGS, DFSI proposes to just reseed the entire affected area with a BLM approved mix. All contaminated materials will be hauled to an approved NM State Disposal.

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)

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

Attachments: Initial Form C-141 Site/Sample Map Photos Sample Data Groundwater Data

Form C-141 Revised August 8, 2011

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.

API No. 30-025-01499

Release Notification and Corrective Action

	OPERATOR	Initial Report	Final Report
Name of Company Linn Operating Inc.	Contact E.L. Gonzales		
Address 2130 W Bender Blvd Hobbs, NM 88240	Telephone No. 575-738-1739		
Facility Name closest well - Caprock Maljamar Unit #042	Facility Type Injection		

Surface Owner State

LOCATION OF RELEASE

Mineral Owner

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
С	20	17S	33E	660	North	1980	West	Lea

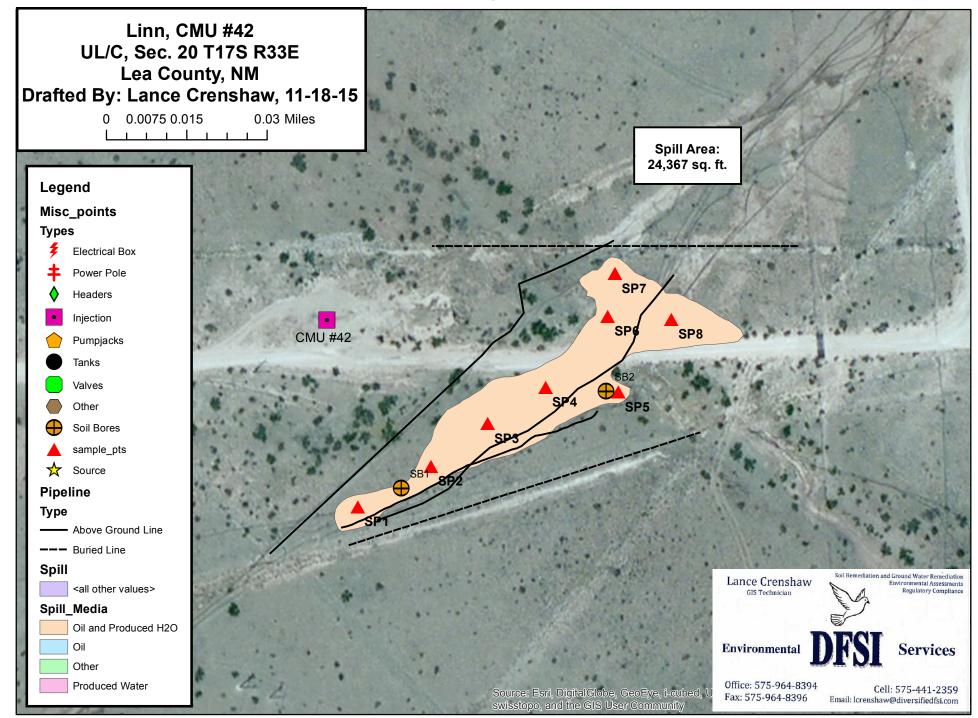
Latitude32.8255157 Longitude -103.6875153 NAD83

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 10 bbls	Volume Re	covered 0 bbls
Source of Release Poly pipeline	Date and Hour of Occurrence	Date and H	our of Discovery
	07/07/2015	07/07/2015	0700
Was Immediate Notice Given?	If YES, To Whom?		
🗌 Yes 🔲 No 🗌 Not Required			
By Whom?	Date and Hour		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	
🗌 Yes 🖾 No			
If a Watercourse was Impacted, Describe Fully.*			
Describe Cause of Problem and Remedial Action Taken.* At approx. 7a	m look was found at CMUL assas. Wh	on Lorrivad Ll	and found that the poly line
from our transfer pump at the CMU A battery to the CMU N. Inj plant. 7			had found that the poly line
nom our transfer pump at the Civio A battery to the Civio N. Inj plant.	the poly pipe had a spin on the bottom	side.	
Describe Area Affected and Cleanup Action Taken.* Leak ran down a d	ownward slope towards the northeast	Size of area at	ffected was approx 100' long
at the longest and 40' wide at the widest point. Middle of leak was about			
at the foligest and to write at the wreest point. Middle of fear was about	is wheel reprise roots of produce .	valer was spin	
I hereby certify that the information given above is true and complete to	the best of my knowledge and understa	and that pursua	ant to NMOCD rules and
regulations all operators are required to report and/or file certain release			
public health or the environment. The acceptance of a C-141 report by the	he NMOCD marked as "Final Report"	does not reliev	ve the operator of liability
should their operations have failed to adequately investigate and remedia			
or the environment. In addition, NMOCD acceptance of a C-141 report	does not relieve the operator of respon	sibility for con	npliance with any other
federal, state, or local laws and/or regulations.			
	OIL CONSERV	VATION I	DIVISION
800//			
Signature: Jangala			
	Approved by Environmental Speciali	st:	
Printed Name: É.L. Gonzales			
*			
Title: Production Supervisor	Approval Date:	Expiration D	ate:
E-mail Address: elgonzales@linnenergy.com	Conditions of Approval:		Attached
Date: 07/08/2015 Phone: 505-504-8002			

* Attach Additional Sheets If Necessary

Site Diagram





CMU #42 (A Battery)

PHOTO PAGE



Source of spill in pasture area



Preparing to drill bore holes at spill area



Collecting samples



Collecting samples

Diversified Environmental Services

 Company Name:
 Linn
 SP Date:
 11/19/2015

 Location Name:
 CMU #42
 Rel Date:
 11/19/2015

SP1	CHL	PID	SP2	CHL	PID	SP3	CHL	PID	SP4	CHL	PID	SP5	CHL	PID
Surface	4,606	0.5	Surface	510	0.3	Surface	230	0.2	Surface	298	0.4	Surface	122	0.3
1'	2,557	0.1	1'	2,361	0	1'	735	0	1'	115	0.2	1'	3,197	0.1
2'	AUGER	REFUSAL	2'	AUGER	REFUSAL	2'	AUGER	REFUSAL				2'	4,022	0.7
												3'	AUGER	REFUSAL
						Surface Surface	304		Surface	432				
						1'	720		1'	144				

Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples

Page 1

SP6	CHL	PID	SP7	CHL	PID	SP8	CHL	PID	SB1	CHL	PID	SB2	CHL	PID
Surface	120	0.3	Surface	180	0.4	Surface	121	0.4	2'	5,127	0.8	3'	4,152	310.1
1'	117	0.3	1'	90	0.4	1'	117	0.2	3'	5,115	0.5	4'	5,780	487
									4'	2,770	0.1	5'	4,947	738
Surface	64		Surface	96		Surface	48		5'	1,607	0.5	6'	5,782	556
1'	64		1'	48		1'	32		6'	553	0.2	7'	6,465	624
									7'	698	2.2	8'	4,399	395
									8'	543	2	9'	3,389	173
												10'	2,360	193.3
												15'	1,090	0.8
												20'	597	0.9
												25'	543	2.9
												20'	528	
												<mark>25'</mark>	480	

	Lab Confirmation Sample
	Field Sampling
	Needs Delineation and confirmation samples

Page 2



November 25, 2015

JOE HERNANDEZ LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: CMU #42

Enclosed are the results of analyses for samples received by the laboratory on 11/19/15 16:15.

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/ga/lab_accred_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.

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,

Lope S. Moreno

Hope S. Moreno For Celey D. Keene Lab Director/Quality Manager



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

Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 3 @ SURFACE (H503069-01)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-140)						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	93.6	% 35-147							
Surrogate: 1-Chlorooctadecane									

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Lope S. Moreno



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Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 3 @ 1' (H503069-02)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	97.5	% 35-147	,						
Surrogate: 1-Chlorooctadecane	108 9	6 28-171							

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Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 4 @ SURFACE (H503069-03)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	94.8	% 35-147							
Surrogate: 1-Chlorooctadecane	104 9	6 28-171							

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Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 4 @ 1' (H503069-04)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	94.7	% 35-147							
Surrogate: 1-Chlorooctadecane	102 9	6 28-171							

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Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 6 @ SURFACE (H503069-05)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
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	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	90.3	% 35-147							
Surrogate: 1-Chlorooctadecane	96.6	% 28-171							

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Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 6 @ 1' (H503069-06)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.6-14	0						
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	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	90.4	% 35-147	,						
Surrogate: 1-Chlorooctadecane	97.8	% 28-171							

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Lope S. Moreno



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

Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 7 @ SURFACE (H503069-07)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	81.8	% 35-147							
Surrogate: 1-Chlorooctadecane	88.0	% 28-171							

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Lope S. Moreno



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

Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 7 @ 1' (H503069-08)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	92.3	% 35-147							
Surrogate: 1-Chlorooctadecane	99.8	% 28-171							

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

Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 8 @ SURFACE (H503069-09)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	88.6	% 35-147							
Surrogate: 1-Chlorooctadecane	95.3	% 28-171							

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

Received:	11/19/2015	Sampling Date:	11/19/2015
Reported:	11/25/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY		

Sample ID: SAMPLE PT. 8 @ 1' (H503069-10)

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	11/23/2015	ND	1.84	91.9	2.00	1.55	
Toluene*	<0.050	0.050	11/23/2015	ND	2.10	105	2.00	1.90	
Ethylbenzene*	<0.050	0.050	11/23/2015	ND	2.11	105	2.00	2.31	
Total Xylenes*	<0.150	0.150	11/23/2015	ND	6.21	104	6.00	2.09	
Total BTEX	<0.300	0.300	11/23/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	73.6-14	0						
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	11/24/2015	ND	416	104	400	3.77	
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	11/22/2015	ND	197	98.3	200	1.26	
DRO >C10-C28	<10.0	10.0	11/22/2015	ND	186	93.0	200	0.310	
Surrogate: 1-Chlorooctane	94.1	% 35-147							
Surrogate: 1-Chlorooctadecane	103 9	% 28-171							

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Lope S. Moreno



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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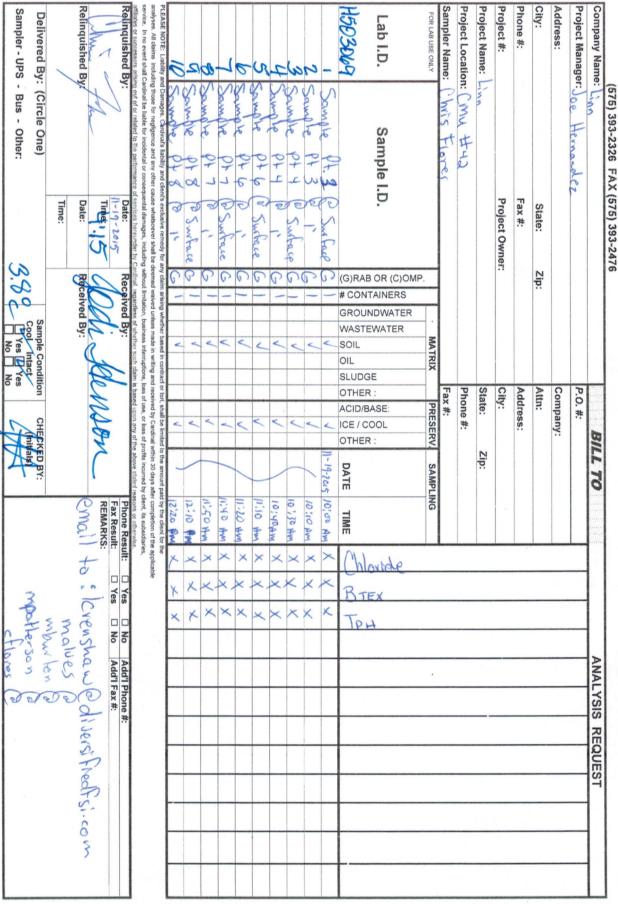
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Hope S. Moreno-

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



Cardinal cannot accept verbal changes. Please fax written changes to (575) 393 328



December 17, 2015

DENNIS POTTER LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: CMU #42

Enclosed are the results of analyses for samples received by the laboratory on 12/10/15 15:10.

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/ga/lab_accred_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/10/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOIL BORE 2 @ 20' (H503219-03)

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	12/15/2015	ND	1.70	85.2	2.00	0.0320	
Toluene*	<0.050	0.050	12/15/2015	ND	1.72	85.8	2.00	0.311	
Ethylbenzene*	<0.050	0.050	12/15/2015	ND	1.75	87.7	2.00	0.503	
Total Xylenes*	<0.150	0.150	12/15/2015	ND	5.25	87.4	6.00	0.204	
Total BTEX	<0.300	0.300	12/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	12/15/2015	ND	416	104	400	3.77	
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	12/14/2015	ND	203	101	200	3.17	
DRO >C10-C28	<10.0	10.0	12/14/2015	ND	199	99.5	200	5.34	
Surrogate: 1-Chlorooctane	96.3	% 35-147							
Surrogate: 1-Chlorooctadecane	96.9	% 28-171							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/10/2015	Sampling Date:	12/10/2015
Reported:	12/17/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOIL BORE 2 @ 25' (H503219-04)

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	12/15/2015	ND	1.70	85.2	2.00	0.0320	
Toluene*	<0.050	0.050	12/15/2015	ND	1.72	85.8	2.00	0.311	
Ethylbenzene*	<0.050	0.050	12/15/2015	ND	1.75	87.7	2.00	0.503	
Total Xylenes*	<0.150	0.150	12/15/2015	ND	5.25	87.4	6.00	0.204	
Total BTEX	<0.300	0.300	12/15/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	12/15/2015	ND	416	104	400	3.77	
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	12/14/2015	ND	203	101	200	3.17	
DRO >C10-C28	<10.0	10.0	12/14/2015	ND	199	99.5	200	5.34	
Surrogate: 1-Chlorooctane	88.2	% 35-147							
Surrogate: 1-Chlorooctadecane	89.4	% 28-171							

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Celez D. Keine

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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 7



December 23, 2015

JOE HERNANDEZ LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: CMU #42

Enclosed are the results of analyses for samples received by the laboratory on 12/21/15 13:25.

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/ga/lab_accred_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.

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. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	12/21/2015	Sampling Date:	12/21/2015
Reported:	12/23/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOIL BORE 1 @ 7' (H503305-01)

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	12/22/2015	ND	2.11	105	2.00	0.0249	
Toluene*	<0.050	0.050	12/22/2015	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	12/22/2015	ND	1.95	97.6	2.00	1.06	
Total Xylenes*	<0.150	0.150	12/22/2015	ND	6.25	104	6.00	0.148	
Total BTEX	<0.300	0.300	12/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/22/2015	ND	416	104	400	7.41	
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	12/22/2015	ND	188	93.9	200	0.715	
DRO >C10-C28	<10.0	10.0	12/22/2015	ND	176	88.2	200	5.36	
Surrogate: 1-Chlorooctane	98.5 9	% 35-147							
Surrogate: 1-Chlorooctadecane	94.3 %	28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	12/21/2015	Sampling Date:	12/21/2015
Reported:	12/23/2015	Sampling Type:	Soil
Project Name:	CMU #42	Sampling Condition:	Cool & Intact
Project Number:	NOT GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SOIL BORE 1 @ 8' (H503305-02)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/22/2015	ND	2.11	105	2.00	0.0249	
Toluene*	<0.050	0.050	12/22/2015	ND	2.14	107	2.00	0.928	
Ethylbenzene*	<0.050	0.050	12/22/2015	ND	1.95	97.6	2.00	1.06	
Total Xylenes*	<0.150	0.150	12/22/2015	ND	6.25	104	6.00	0.148	
Total BTEX	<0.300	0.300	12/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.1	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384 16.0		12/22/2015 ND		416	104	400	7.41	
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	12/22/2015	ND	188	93.9	200	0.715	
DRO >C10-C28	<10.0	10.0	12/22/2015	ND	176	88.2	200	5.36	
Surrogate: 1-Chlorooctane	109 % 35-147								
Surrogate: 1-Chlorooctadecane	99.0	% 28-171							

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Celez D. Keine

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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Address: City: Phone #: Project Mame: Ly Project Location: (Sampler Name: Ly FOR LAB USE ONLY FOR LAB USE ONLY FOR LAB USE ONLY PLEASE NOTE: Lability and Dar analyses. All claims including that analyses. All claims includ	Project Manager:	(5
State: Fax #: Project Ow H44, Flores Flores Sample I.D. Bore 107 Bore 107 Bore 107 Bore 108 Bore 108 B	tan too the marker	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
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Ten shaw Poliversi Fied Fir com	ANALYSIS REQUEST	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Laboratories



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 a				,	3 UTM in meters)		(In feet)
POD Number	POD Sub- Code basin C	Q G ounty 64 1	• -•	Tws	Rng	x	Y	-	Depth Water	Water Column
L 02875	L		2 20		-	623662	3632717* 🌍	250	190	60
							Average Depth to Water:		190 fe	eet
							Minimum Depth:		190 fe	eet
							Maximum Depth:		190 fe	eet
Record Count: 1										

Record Count: 1

PLSS Search:

Section(s): 20

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.