		SITE	INFORM	ATION						
	R	eport Type:	Closure F	Report	1RP-445	55				
General Site Inf	formation:									
Site:		Laguna Deep #	‡ 7							
Company:		Cimarex Energy								
	ship and Range	Unit E	Sec. 36	T 19S	R 33E					
Lease Number:	:	API No. 30-025-36255								
County:		Lea County								
GPS:			32.618109°			-103.621671°				
Surface Owner	:	State				ch Rd., head northwest on Smith				
Release Data:										
Date Released:		9/17/2016								
Type Release:		Produced Wate	r							
Source of Conta	mination:	Fiberglass tank								
Fluid Released:		210 bbls								
Fluids Recovere	ed:	210 bbls								
Official Commu	ınication:									
Name:	Gloria Garza				Clair Gonza	ales				
Company:	Cimarex Energy				Tetra Tech					
Address:	600 N. Marienfield	l St.			901 W. Wa	all St.				
	Ste 400									
City:	Midland Texas, 79	9701			Midland, Te	exas, 79701				
Phone number:	(432) 234-3204				(432) 687-8	3123				
Fax:										
Email:	ggarza@cimare	x.com			Clair.Gonz	zales@Tetratech.com				

Site Characterization	
Depth to Groundwater:	84' below ground surface
Karst Potential:	Low

Recommended R	emedial Action Levels (RRALs)		
Benzene	Total BTEX	TPH (GRO+DRO+MRO)	Chlorides
10 mg/kg	50 mg/kg	1,000 mg/kg	250 mg/kg



March 7, 2019

Gloria Garza ESH Specialist – Permian Basin Cimarex Energy 600 N. Marienfeld St. Midland, Texas 79701

Re: Closure Report for the Cimarex Energy, Laguna Deep #7, Unit E, Section 36, Township 19 South, Range 33 East, Lea County, New Mexico.

Ms. Garza:

Tetra Tech, Inc. (Tetra Tech) was contacted by Cimarex Energy (Cimarex) to prepare a closure report for a spill at the Laguna Deep #7, Unit E, Section 36, Township 19 South, Range 33 East, Lea County, New Mexico (site). The spill site coordinates are 32.618109°, -103.621671°. The site location is shown on Maps 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the release was discovered on September 17, 2016, and released approximately two hundred ten (210) barrels of produced water due to a lightning strike to a produced water stock tank. Approximately two hundred ten (210) barrels of produced water was recovered. The release occurred on the pad area and traveled to the pasture. The spill measured approximately 110' x 270'. The initial C-141 Form is included in Appendix A.

Diversified Field Services, Inc. was contracted to perform the initial site assessment and remediation at the site. After submitting work plans to the NMOCD, Diversified excavated the areas of concern on the facility's pad and installed a liner, per NMOCD's request. Photo documentation of Diversified's remediation activities and views of the rebuilt facility, post-remediation, are included.

Site Characterization

A site characterization was performed for the site and no watercourses, lakebeds, sinkholes, playa lakes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the specified distances and the site is in a low karst potential area. The nearest well is listed on the USGS National Water Information System in Section 26, approximately 0.9 miles northwest of the site, and has a reported depth to groundwater of 84 feet below ground surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is approximately 75' below surface. The groundwater data is shown in Appendix B.



Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Remediation and Analytical Results

Tetra Tech personnel were onsite January 28-29, 2019, to supervise the remediation activities in the southeast pasture area. The areas of auger holes (SP2 and SP3) were excavated to 4' below surface. Sidewall and bottom hole confirmation samples were then collected from those excavations. Additionally, the area of auger hole (SP-1) was trenched with a backhoe, per NMOCD's request for delineation in the area.

Selected samples were analyzed for TPH analysis by EPA Method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included. The results of the sampling are summarized in Table 1. The sample locations are shown in Plat 3.

Referring to Lab Analysis Table 1, all analyzed samples showed benzene, total BTEX, and TPH below the RRAL's. Additionally, all samples showed chloride concentrations below 250 mg/kg.

Approximately 170 cubic yards of material was removed and hauled to proper disposal. The excavations were then lined with a 20 mil liner, backfilled with clean material and returned to surface grade. The excavation areas and depths are shown on Plat 4.

Revegetation

Reseeding will be performed in June 2019 to coincide with the rainy season in Southeastern New Mexico and aid in revegetation. Based on the soils at the site, the NMSLO Seed Mix for Deep Sand (DS) will be used and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a handheld broadcaster and raked. If a handheld broadcaster is used for dispersal, the pounds PLS per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will



be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds PLS per acre are included in Appendix C.

Conclusion

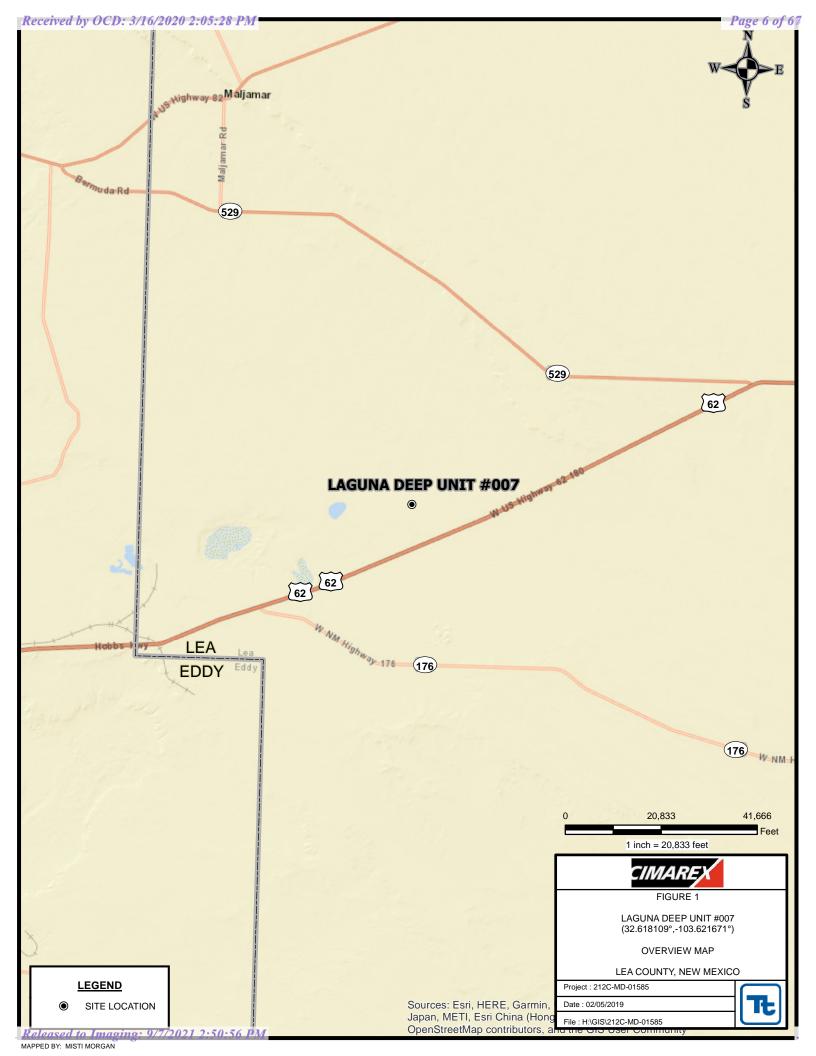
Based on the laboratory results and the remediation activities performed, Cimarex requests closure of this spill issue. The final C-141 is enclosed in Appendix A. If you have any questions or comments concerning the assessment activities for this site, please call at (432) 682-4559.

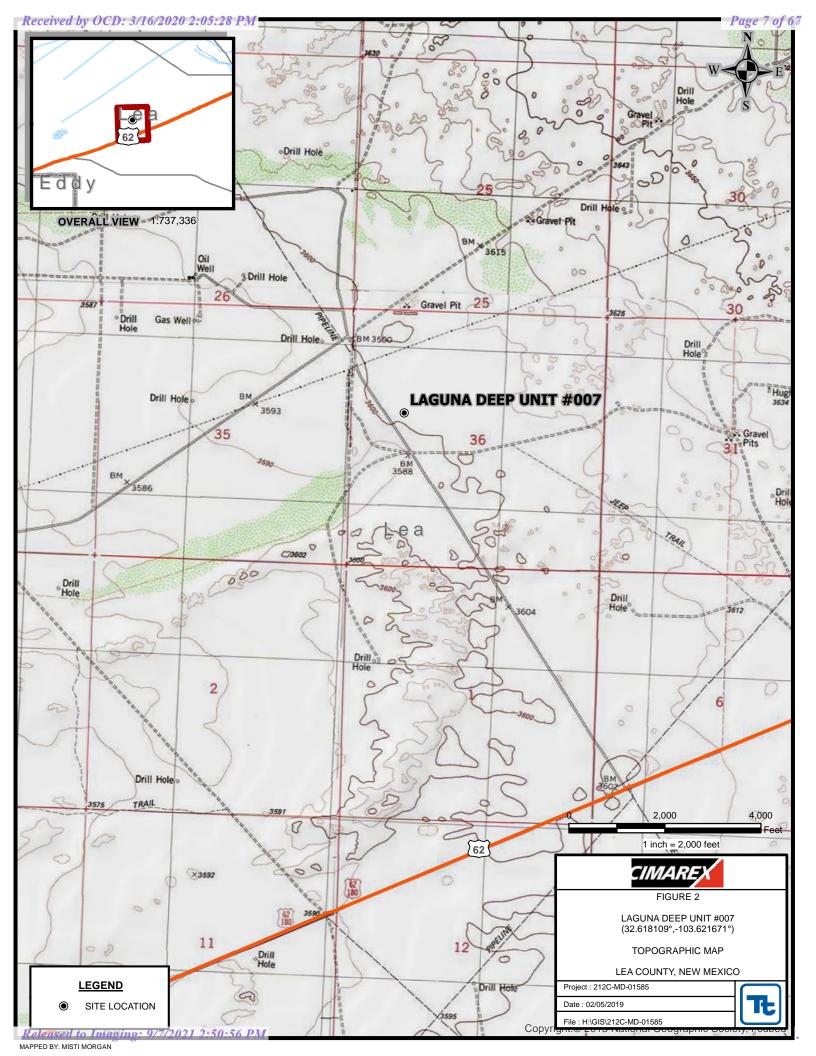
Respectfully submitted, TETRA TECH

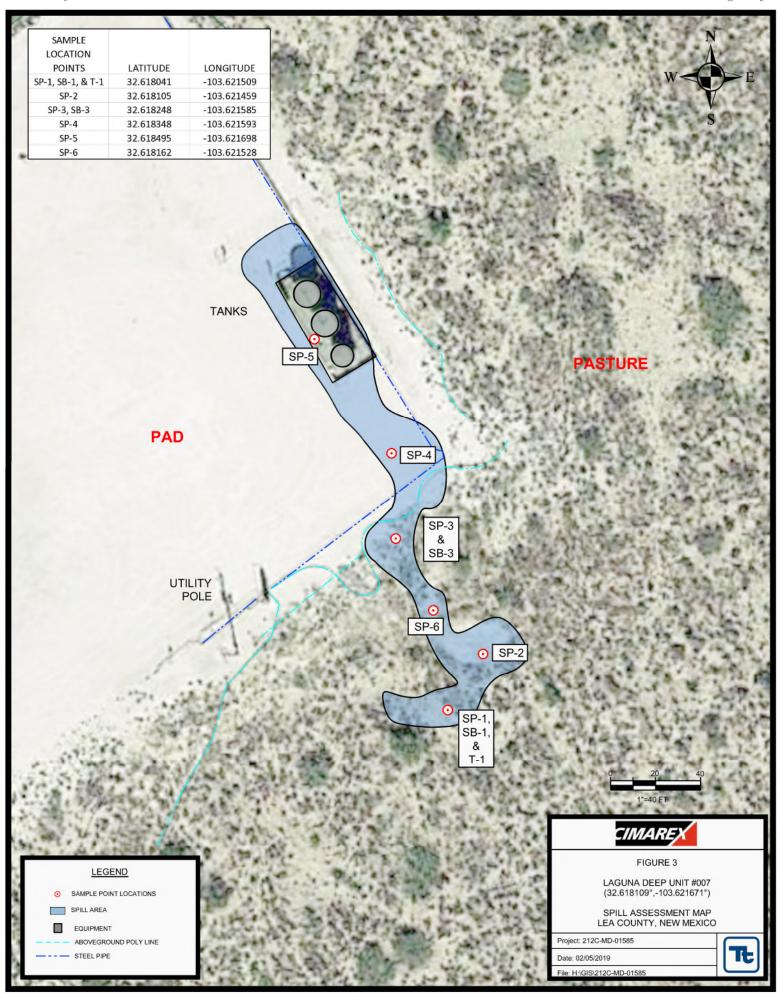
Clair Gonzales, Project Manager Johnathon Kell, Geologist II

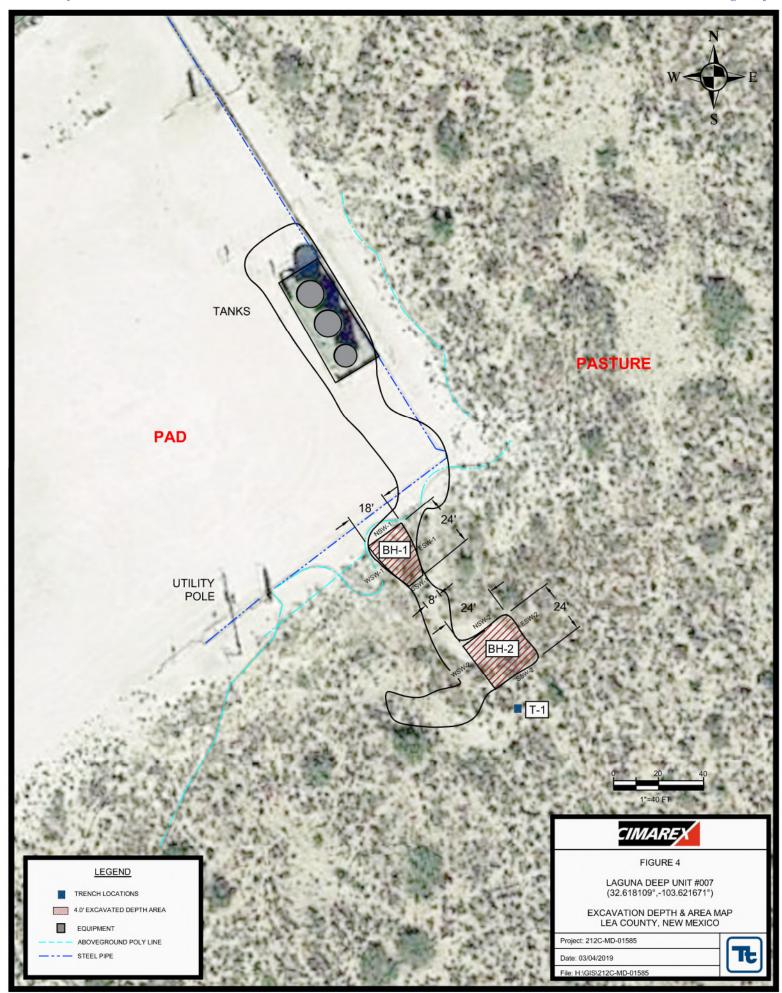
cc: Ryan Mann – SLO Amber Groves -- SLO

Maps/Plats









Lab Analysis

Table 1
Cimarex Energy
Laguna Deep Unit #7
Lea County, New Mexico

Commis ID	Sample	Sample	BEB	Soil	Status		TPH (mg/kg)		Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	Sample Depth (ft)	In-Situ	Removed	GRO	DRO	ORO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NSW-1	1/28/2019	-	-	Χ		<10.0	11.8	<10.0	11.8	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
ESW-1	1/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
WSW-1	1/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SSW-1	1/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
NSW-2	1/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
ESW-2	1/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
WSW-2	1/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SSW-2	1/28/2019	-	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
Bottom Hole #1	1/28/2019	-	4	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
Bottom Hole #2	1/28/2019	-	4	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
T-1	1/29/2019	0-1	-	Х		<10.0	26.9	<10.0	26.9	<0.050	<0.050	<0.050	<0.150	<0.300	16.0
(SP1)	"	2	-	Х		<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
	II	3	-	Х		-	-	-	-	-	-	-	-	-	48.0
	II .	4	-	Χ		-	-	-	-	-	-	-	-	-	48.0
	II .	6	-	Χ		-	-	-	-	-	-	-	-	-	32.0
	"	8	-	Х		-	-	-	-	-	-	-	-	-	48.0

(-) Not Analyzed



January 29, 2019

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: LAGUNA DEEP UNIT #007

Enclosed are the results of analyses for samples received by the laboratory on 01/28/19 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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.

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



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: 01/29/2019 Sampling Type: Soil

Fax To:

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: CIMAREX- LEA CO NM

Sample ID: NSW - 1 (H900297-01)

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	01/29/2019	ND	1.72	86.1	2.00	1.21	
Toluene*	<0.050	0.050	01/29/2019	ND	1.84	92.2	2.00	0.419	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.81	90.3	2.00	0.0881	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.27	87.8	6.00	0.0829	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	ND	400	100	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	01/28/2019	ND	179	89.3	200	2.28	
DRO >C10-C28*	11.8	10.0	01/28/2019	ND	196	98.1	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	01/28/2019	ND					
Surrogate: 1-Chlorooctane	86.2	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	83.4	% 37.6-14	7						

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Celey D. Keene



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: Sampling Type: Soil 01/29/2019

Fax To:

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: CIMAREX- LEA CO NM

Sample ID: ESW - 1 (H900297-02)

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	01/29/2019	ND	1.72	86.1	2.00	1.21	
Toluene*	<0.050	0.050	01/29/2019	ND	1.84	92.2	2.00	0.419	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.81	90.3	2.00	0.0881	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.27	87.8	6.00	0.0829	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	ND	400	100	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	01/28/2019	ND	179	89.3	200	2.28	
DRO >C10-C28*	<10.0	10.0	01/28/2019	ND	196	98.1	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	01/28/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	87.7	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: 01/29/2019 Sampling Type: Soil Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Coo

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: CIMAREX- LEA CO NM

ma/ka

Sample ID: WSW - 1 (H900297-03)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2019	ND	1.72	86.1	2.00	1.21	
Toluene*	<0.050	0.050	01/29/2019	ND	1.84	92.2	2.00	0.419	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.81	90.3	2.00	0.0881	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.27	87.8	6.00	0.0829	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	ND	400	100	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	01/29/2019	ND	179	89.3	200	2.28	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	196	98.1	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	88.4	% 41-142							
Surrogate: 1-Chlorooctadecane	85.2	% 37.6-14	7						

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Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701 Fax To: (432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: Sampling Type: Soil 01/29/2019

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: CIMAREX- LEA CO NM

Sample ID: SSW - 1 (H900297-04)

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	01/29/2019	ND	1.72	86.1	2.00	1.21	
Toluene*	<0.050	0.050	01/29/2019	ND	1.84	92.2	2.00	0.419	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.81	90.3	2.00	0.0881	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.27	87.8	6.00	0.0829	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.1	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	ND	400	100	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	01/29/2019	ND	179	89.3	200	2.28	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	196	98.1	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	84.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	80.5	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: Sampling Type: Soil 01/29/2019

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: CIMAREX- LEA CO NM

Sample ID: NSW - 2 (H900297-05)

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	01/29/2019	ND	1.72	86.1	2.00	1.21	
Toluene*	<0.050	0.050	01/29/2019	ND	1.84	92.2	2.00	0.419	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.81	90.3	2.00	0.0881	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.27	87.8	6.00	0.0829	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	ND	400	100	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	01/29/2019	ND	179	89.3	200	2.28	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	196	98.1	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	84.7	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	83.1	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

TETRA TECH
CLAIR GONZALES
901 WEST WALL STREET , STE 100
MIDLAND TX, 79701
Fax To: (432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: 01/29/2019 Sampling Type: Soil

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: CIMAREX- LEA CO NM

ma/ka

Sample ID: ESW - 2 (H900297-06)

RTFY 8021R

BIEX 8021B	mg	/кд	Anaiyze	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2019	ND	1.72	86.1	2.00	1.21	
Toluene*	<0.050	0.050	01/29/2019	ND	1.84	92.2	2.00	0.419	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.81	90.3	2.00	0.0881	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.27	87.8	6.00	0.0829	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	ND	400	100	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	01/29/2019	ND	179	89.3	200	2.28	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	196	98.1	200	0.889	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	•						
Surrogate: 1-Chlorooctadecane	83.6	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: Sampling Type: Soil 01/29/2019

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: CIMAREX- LEA CO NM

Sample ID: WSW - 2 (H900297-07)

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	01/29/2019	ND	1.65	82.7	2.00	0.346	
Toluene*	<0.050	0.050	01/29/2019	ND	1.70	84.8	2.00	1.23	
Ethylbenzene*	< 0.050	0.050	01/29/2019	ND	1.70	85.0	2.00	1.04	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.22	86.9	6.00	0.833	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.5 %	73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/29/2019	ND	400	100	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	01/29/2019	ND	182	91.2	200	0.296	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	200	100	200	0.940	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	80.1 9	% 41-142							
Surrogate: 1-Chlorooctadecane	74.4 9	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: Sampling Type: Soil 01/29/2019

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: CIMAREX- LEA CO NM

Sample ID: SSW - 2 (H900297-08)

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	01/29/2019	ND	1.65	82.7	2.00	0.346	
Toluene*	<0.050	0.050	01/29/2019	ND	1.70	84.8	2.00	1.23	
Ethylbenzene*	< 0.050	0.050	01/29/2019	ND	1.70	85.0	2.00	1.04	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.22	86.9	6.00	0.833	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/29/2019	ND	400	100	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	01/29/2019	ND	182	91.2	200	0.296	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	200	100	200	0.940	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	90.6	% 41-142	!						
Surrogate: 1-Chlorooctadecane	81.4	% 37.6-14	7						

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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 waived 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 upon 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 approval 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

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Celeg D. Keene

Relinquished By:

Relinquished By:

Times 45

Received By:

Phone Result: Fax Result: REMARKS:

□ Yes

No No

Add'l Phone #: Add'l Fax #:

Received By:

Time:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

company name: 18x1x 18ch		BILL TO	ANALYSIS REQUEST
Project Manager: () wir (Jin Zulf)	-	P.O. #:	
Address: 901 W. Wall St.	0	Company: Limbles	
State: \X	Zip: Jan o i A	Attn: (Incisting Alderman	
Phone #: 452-240-8654 Fax #:	A	Address: 600 N. Mwinfield	
Project #: Project Owner:	Cimarex	City: Milliand STE WO	
Project Name: Lugura Deep Unix #000		1000	5 1
Project Location: Len Co., NA	P	Phone #: 471-857-1054	21
Sampler Name: Stephen Reyes		Fax #:	200
FOR LAB USE ONLY	MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.	RAB OR (C)OMP CONTAINERS COUNDWATER ASTEWATER IL JUGE HER:	ID/BASE: :/COOL HER:	BTEX TPH Chi
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Z-M55 8	~ ×	y 1-28-10	**
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8c

Sample Condition
Cool Intact
Cyes Tyes
No No

CHECKED BY: (Initials)

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Clair, yourantes 2 tetratech com

Stepher-reger 2 tetrateur. com

Sampler - UPS - Bus - Other: Delivered By: (Circle One)



January 29, 2019

CLAIR GONZALES
TETRA TECH
901 WEST WALL STREET , STE 100
MIDLAND, TX 79701

RE: LAGUNA DEEP UNIT #007

Enclosed are the results of analyses for samples received by the laboratory on 01/28/19 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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)

Celey D. Keene

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:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET , STE 100 MIDLAND TX, 79701

(432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: 01/29/2019 Sampling Type: Soil

Fax To:

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Analyzed By me

Project Location: CIMAREX- LEA CO NM

Sample ID: BOTTOM HOLE 1 (4' BEB) (H900298-01)

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	01/29/2019	ND	1.65	82.7	2.00	0.346	
Toluene*	<0.050	0.050	01/29/2019	ND	1.70	84.8	2.00	1.23	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.70	85.0	2.00	1.04	
Total Xylenes*	<0.150	0.150	01/29/2019	ND	5.22	86.9	6.00	0.833	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 73.3-12	9						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/29/2019	ND	400	100	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS				400	3.92	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/29/2019	ND	182	91.2	200	0.296	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	200	100	200	0.940	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	87.1	% 41-142	?						
Surrogate: 1-Chlorooctadecane	79.1	% 37.6-14	7						

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Celey D. Keine



Analytical Results For:

TETRA TECH CLAIR GONZALES 901 WEST WALL STREET, STE 100 MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 01/28/2019 Sampling Date: 01/28/2019

Reported: Sampling Type: Soil 01/29/2019

Project Name: LAGUNA DEEP UNIT #007 Sampling Condition: Cool & Intact Tamara Oldaker Project Number: NONE GIVEN Sample Received By:

Project Location: CIMAREX- LEA CO NM

Sample ID: BOTTOM HOLE 2 (4' BEB) (H900298-02)

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	01/29/2019	ND	1.65	82.7	2.00	0.346	
Toluene*	<0.050	0.050	01/29/2019	ND	1.70	84.8	2.00	1.23	
Ethylbenzene*	<0.050	0.050	01/29/2019	ND	1.70	85.0	2.00	1.04	
Total Xylenes*	< 0.150	0.150	01/29/2019	ND	5.22	86.9	6.00	0.833	
Total BTEX	<0.300	0.300	01/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/29/2019	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	01/29/2019	ND	182	91.2	200	0.296	
DRO >C10-C28*	<10.0	10.0	01/29/2019	ND	200	100	200	0.940	
EXT DRO >C28-C36	<10.0	10.0	01/29/2019	ND					
Surrogate: 1-Chlorooctane	76.4	% 41-142	ı						
Surrogate: 1-Chlorooctadecane	67.5	% 37.6-14	7						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



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. Freene

Relinquished By:

Sh: 12/ Date: Time:

Fax Result: REMARKS:

Received By:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

□ No Add'l Fax#:	□ Yes	Fax Result:			1.00.17	
□ No Add'I Phone #:		Phone Result:	0	Received By:	y: Date:	Relinquished By:
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	pplicable	ys after completion of the a	received by Cardinal within 30 da	eemed walved unless made in writing an	analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waved unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal he liable for including the consequents of the applicable service.	analyses. All claims includin
	-	nt paid by the client for the	or tort shall be limited to the amo	v claim arising whether based in contract	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount paid by the client for the	PLEASE NOTE: Liability an
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			State:イメ Zip: 1476	井のい	しゃいと	Project Name:
	3 1	_	city: M. Jland	: Cimarex	Project Owner:	Project #:
		Marientical	Address: God N. Marienfield		Phone #: 431-261-8634 Fax #:	Phone #: 43
		Aldeman	Attn: Christine Alderman	Tx zip: 19701	State:	City: Nidland
		(6)	Company: Limnica		N. WA	Address: 401
			P.O. #:		er: Ulair (Jonzale)	Project Manager:
ANALYSIS REQUEST			8/14/10		e Jexin Tenn	Company Name:

村

CHECKED BY: (Initials) 40

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Stephen, rever a tetrateur, ium

Chic. gordales of tetratoh. com

Sampler - UPS - Bus - Other: Delivered By: (Circle One)



January 30, 2019

CLAIR GONZALES

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND, TX 79701

RE: LAGUNA DEEP UNIT #007

Enclosed are the results of analyses for samples received by the laboratory on 01/29/19 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 Total Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)

Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Celey D. Keene

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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:

TETRA TECH 901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585 Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported: 30-Jan-19 10:28

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T - 1 (0-1')	H900310-01	Soil	29-Jan-19 00:00	29-Jan-19 14:55
T - 1 (1')	H900310-02	Soil	29-Jan-19 00:00	29-Jan-19 14:55
T - 1 (2')	H900310-03	Soil	29-Jan-19 00:00	29-Jan-19 14:55
T - 1 (3')	H900310-04	Soil	29-Jan-19 00:00	29-Jan-19 14:55
T - 1 (4')	H900310-05	Soil	29-Jan-19 00:00	29-Jan-19 14:55
T - 1 (6')	H900310-06	Soil	29-Jan-19 00:00	29-Jan-19 14:55
T - 1 (8')	H900310-07	Soil	29-Jan-19 00:00	29-Jan-19 14:55

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Celey D. Keene



Analytical Results For:

TETRA TECH

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported: 30-Jan-19 10:28

T - 1 (0-1') H900310-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	16.0		16.0	mg/kg	4	9013001	AC	30-Jan-19	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (Pl	D)		101 %	73.3	-129	9012911	ms	30-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9012910	MS	30-Jan-19	8015B	
DRO >C10-C28*	26.9		10.0	mg/kg	1	9012910	MS	30-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9012910	MS	30-Jan-19	8015B	
Surrogate: 1-Chlorooctane			85.7 %	41	142	9012910	MS	30-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			87.4 %	37.6	-147	9012910	MS	30-Jan-19	8015B	

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Reported:

30-Jan-19 10:28



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

Analytical Results For:

TETRA TECH

 $901~\mbox{WEST}$ WALL STREET , STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

T - 1 (1')

H900310-02 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	<16.0		16.0	mg/kg	4	9013001	AC	30-Jan-19	4500-Cl-B	
Volatile Organic Compounds	by EPA Method	8021								
Benzene*	< 0.050		0.050	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Toluene*	< 0.050		0.050	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Ethylbenzene*	< 0.050		0.050	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Total Xylenes*	< 0.150		0.150	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Total BTEX	< 0.300		0.300	mg/kg	50	9012911	ms	30-Jan-19	8021B	
Surrogate: 4-Bromofluorobenzene (PIL))		99.7 %	73.3	-129	9012911	ms	30-Jan-19	8021B	
Petroleum Hydrocarbons by	GC FID									
GRO C6-C10*	<10.0		10.0	mg/kg	1	9012910	MS	30-Jan-19	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	9012910	MS	30-Jan-19	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	9012910	MS	30-Jan-19	8015B	
Surrogate: 1-Chlorooctane			88.7 %	41-	142	9012910	MS	30-Jan-19	8015B	
Surrogate: 1-Chlorooctadecane			91.2 %	37.6	-147	9012910	MS	30-Jan-19	8015B	

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Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported:

30-Jan-19 10:28

T - 1(2')

H900310-03 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
	Cardinal Laboratories											
Inorganic Compounds												
Chloride	48.0		16.0	mg/kg	4	9013001	AC	30-Jan-19	4500-Cl-B			

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Reported:

30-Jan-19 10:28



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

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

T-1(3')

H900310-04 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardin	al Laborat	tories					

 Inorganic Compounds

 Chloride
 48.0
 16.0
 mg/kg
 4
 9013001
 AC
 30-Jan-19
 4500-Cl-B

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Reported:

30-Jan-19 10:28



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Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

T-1(4')

H900310-05 (Soil)

A	Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
	Cardinal Laboratories											
In	organic Compounds											
Cł	ıloride	32.0		16.0	mg/kg	4	9013001	AC	30-Jan-19	4500-Cl-B		

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48.0

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

Analytical Results For:

TETRA TECH

Chloride

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

9013001

AC

30-Jan-19

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported: 30-Jan-19 10:28

4500-Cl-B

ax 10. (432) 002-3940

T - 1 (6')

H900310-06 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
			Cardina	ıl Laborat	ories						
Inorganic Compounds											

mg/kg

16.0

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Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported:

30-Jan-19 10:28

T-1(8')

H900310-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes	
Cardinal Laboratories											
Inorganic Compounds											
Chloride	32.0		16.0	mg/kg	4	9013001	AC	30-Jan-19	4500-Cl-B		

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Celey D. Keene



0/DEC

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported: 30-Jan-19 10:28

Inorganic Compounds - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9013001 - General Prep - Wet Chem										
Blank (9013001-BLK1)				Prepared &	k Analyzed:	30-Jan-19				
Chloride	ND	16.0	mg/kg							
LCS (9013001-BS1)				Prepared 8	k Analyzed:	30-Jan-19				
Chloride	400	16.0	mg/kg	400		100	80-120			
LCS Dup (9013001-BSD1)				Prepared &	k Analyzed:	30-Jan-19				
Chloride	416	16.0	mg/kg	400		104	80-120	3.92	20	

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



%REC

Analytical Results For:

TETRA TECH

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Project Number: 212C-MD-01585

Spike

Source

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported: 30-Jan-19 10:28

RPD

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 9012911 - Volatiles										
Blank (9012911-BLK1)				Prepared &	દે Analyzed:	29-Jan-19				
Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.100		mg/kg	0.100		100	73.3-129			
LCS (9012911-BS1)				Prepared &	દે Analyzed:	29-Jan-19				
Benzene	1.94	0.050	mg/kg	2.00		96.9	72.2-131			
Toluene	2.00	0.050	mg/kg	2.00		99.9	71.7-126			
Ethylbenzene	2.00	0.050	mg/kg	2.00		100	68.9-126			
Total Xylenes	6.10	0.150	mg/kg	6.00		102	71.4-125			
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	73.3-129			
LCS Dup (9012911-BSD1)				Prepared &	દે Analyzed:	29-Jan-19				
Benzene	1.96	0.050	mg/kg	2.00		98.0	72.2-131	1.04	6.91	
Toluene	2.01	0.050	mg/kg	2.00		100	71.7-126	0.468	7.12	
Ethylbenzene	2.01	0.050	mg/kg	2.00		101	68.9-126	0.445	7.88	
Total Xylenes	6.16	0.150	mg/kg	6.00		103	71.4-125	0.949	7.46	
Surrogate: 4-Bromofluorobenzene (PID)	0.101		mg/kg	0.100		101	73.3-129			

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



%REC

Limits

RPD

Analytical Results For:

TETRA TECH

Analyte

GRO C6-C10

DRO >C10-C28

Total TPH C6-C28

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

901 WEST WALL STREET , STE $100\,$

MIDLAND TX, 79701

Project: LAGUNA DEEP UNIT #007

Spike

Level

200

200

400

50.0

50.0

Source

Result

%REC

110

105

107

94.0

91.6

76.5-133

72.9-138

78-132

41-142

37.6-147

3.80

5.00

0.592

Project Number: 212C-MD-01585

Project Manager: CLAIR GONZALES

Fax To: (432) 682-3946

Reported: 30-Jan-19 10:28

RPD

Limit

20.6

20.6

Notes

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Units

Reporting

Limit

10.0

10.0

10.0

Result

220

209

429

47.0

45.8

Blank (9012910-BLK1)				Prepared & Anal	lyzed: 29-Jan-19	
GRO C6-C10	ND	10.0	mg/kg			
DRO >C10-C28	ND	10.0	mg/kg			
EXT DRO >C28-C36	ND	10.0	mg/kg			
Surrogate: 1-Chlorooctane	45.8		mg/kg	50.0	91.5	41-142
Surrogate: 1-Chlorooctadecane	44.2		mg/kg	50.0	88.4	37.6-147
LCS (9012910-BS1)				Prepared & Anal	lyzed: 29-Jan-19	
GRO C6-C10	212	10.0	mg/kg	200	106	76.5-133
ORO >C10-C28	220	10.0	mg/kg	200	110	72.9-138
Total TPH C6-C28	432	10.0	mg/kg	400	108	78-132
Surrogate: 1-Chlorooctane	47.4		mg/kg	50.0	94.9	41-142
Surrogate: 1-Chlorooctadecane	45.9		mg/kg	50.0	91.7	37.6-147
arrogate. 1 Chiorooctaaccane						

mg/kg

mg/kg

mg/kg

mg/kg

mg/kg

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Celey D. Keene

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

Celey D. Keene, Lab Director/Quality Manager

Photos







Area of SP-5 and SP-4 Excavation – View to Northwest



Area SP-5 and SP-4 Liner Installation - View to Southeast







Reconstructed Tank Battery Area of SP-5 – View to Northeast



Area of SP-4 after reconsctruction - View East







SP-3 Excavation – View to Northwest



SP-3 Excavation – View Southwest







SP-2 Excavation – View to Northwest



SP-2 Excavation - View East







Area of T-1 – View to Northwest



Area of T-1 - View South

Cimarex Energy Laguna Deep #7 Lea County, New Mexico







Area of SP-2 Liner Installation – View to South



Area of SP-2 Liner Installation – View Southeast







Area of SP-3 Liner Installation – View to North



Area of SP-3 Liner Installation – View East

Appendix A: Agency Forms

Received by OCD: 3/16/2020 2:05:28 PM
District 1
1625 N. French Dr., Hobbs, NM 88240 District III
1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

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

Page 51 of 67 REVIEWED By Kristen Lynch at 2:29 pm, Sep 27, 2016

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA	FOR			al Report		Fina	l Report			
Name of Co	mpany C	marex Ener	gy			Contact Ch	ristine Alderma	n								
Address 60	0 N Marie	nfeld Ste 60	0 Midlan	d TX		Telephone N	No. 432-853-70	59								
Facility Nan	ne Laguna	Deep 7				Facility Typ	e Production									
Surface Own	ner			Mineral O	wner	r API No. 30-025-36255										
				LOCA	TIO	N OF REI	LEASE									
Unit Letter	Section	Township	Range	Feet from the			Feet from the	East/V	Vest Line	County						
E	36	198	33E	1980		N	950		W	Lea						
				Latitude_32	2.61840	6_Longitude	e -103.62232			•						
				NAT	URE	OF RELI	EASE									
Type of Relea	ise Produc	ed water		1112				s	Volume F	Recovered 2	10 bbls	 3+				
			tank				 									
777 7 11							77.11		9/17/2016	<u> </u>						
Was Immedia	ite Notice C		Ves 🗀	I No. □ Not Re	anired											
D 11/1 0	01 1 0		103	THO I NOTICE	quired		-	10016	11.00							
Name of Company Cinarex Herery Address 600 N Marienteld Ste 600 Midland TX Facility Name Laguna Deep 7 Surface Owner Mineral Owner API No. 30-025-36255 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County B 36 198 33E 1980 N 950 W Lea Latitude 32.61846 Longitude -103.62232 NATURE OF RELEASE Volume of Release Produced water Source of Release Produced water Source of Release Produced from Py train by Source of Release Produced from Py train by Source of Release Froduced from Py train by Source of Release Froduced from Py train by Source of Release Froduced water Source of Release Froduced from Py train by Source of Release Froduced from Py Sou																
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the berm into	tne pasture	area approxir	nately 12	wide and 40° ion	g (mixi	ure of Pw and	water from the	aeparım	ient)							
								els to tu	rn soil in pa	asture area.	Sample	es wer	·e			
collected of in	npacted are	as and sent fo	r analysis.	. A work plan wil	l be de	veloped and si	ıbmitted.									
I hereby certif	v that the in	nformation gi	ven above	is true and compl	ete to t	he best of my	knowledge and u	nderstar	nd that purs	uant to NM(OCD rt	ıles ar	nd			
regulations all	operators	are required to	o report an	d/or file certain re	elease n	otifications ar	d perform correc	tive acti	ions for rele	eases which	may en	ıdange	er			
Name of Company Cimerex Energy Address 690 N Marienfeld Ste 600 Midland TX																
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Printed Name	: Christine	Alderman				Approved by	Environmentat St	peciansi	.:	U						
Tida, BOH O	manniaan					Annearal Dat	9/27/2016		Evaluation)	Data: 11/27	⁷ /2016					
THE EAST OF	thei AISOL							Sampl	es Only	Jaic.						
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Auach Addit	ionai Snee	is it necessa	ary		Ι	NOTHLY NMO	Uprior to all s	samplii	ng		lepartments finally put ximately 10 bbls ran or e area. Samples were to NMOCD rules and s which may endanger the operator of liability face water, human heatiance with any other VISION VISION 11/27/2016 ttached 1RP 4455					

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Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

What is the shallowest depth to groundwater beneath the area affected by the release?	(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☐ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody	ls.

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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1 480	00	v_{J}	00

Incident ID	
District RP	
Facility ID	
Application ID	

st of my knowledge and understand that pursuant to OCD rules and ations and perform corrective actions for releases which may endanger D does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In sponsibility for compliance with any other federal, state, or local laws
Title:
Date:
Celephone:
Ditio
Date:

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Incident ID	nKL1627151743
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

☐ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
☐ Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name:	
Signature: garza	Date:
email:	Telephone:
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Bradford Billing	Date: 09/07/2021
Printed Name: Bradford Billings	Title: Envi. Spec. A

Appendix B: Groundwater Data

Water Well Data Average Depth to Groundwater (ft) Cimarex - Laguna Deep #7

	18 S	outh	3	2 Eas	t		18 S	outh	;	33 East			18 Sc	outh	34	East	
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			117					177								110	<u> </u>
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		1			46					1							

- 88 New Mexico State Engineers Well Reports
- 105 USGS Well Reports
- 90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6) Geology and Groundwater Resources of Eddy County, NM (Report 3)
- 34 NMOCD Groundwater Data
- **121** Abandoned Waterwell (recently measured)



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources	USGS	Water	Reso	urces
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Data Category:	Geographic Area:		
Groundwater ~	New Mexico	~	GO

Click to hideNews Bulletins

- Please see news on new formats
- Full News 🔊

Groundwater levels for New Mexico

Click to hide state-specific text

Search Results -- 1 sites found

site_no list =

• 323737103373001

Minimum number of levels = 1

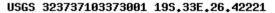
Save file of selected sites to local disk for future upload

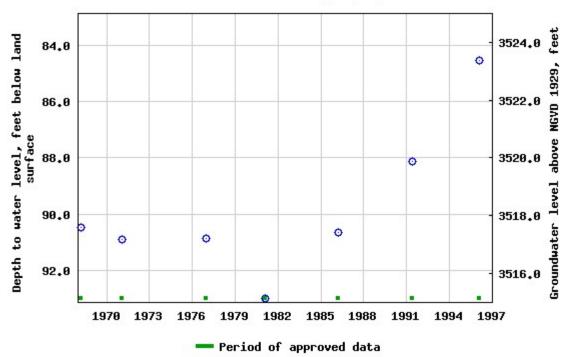
USGS 323737103373001 19S.33E.26.42221

Available data for this site	Groundwater: Field measurements \checkmark] GO
Lea County, New Mexico		
Hydrologic Unit Code 1306	0011	
Latitude 32°37'51", Longit	ude 103°37'33" NAD27	
Land-surface elevation 3,60	08.00 feet above NGVD29	
The depth of the well is 100	O feet below land surface.	
This well is completed in th	e Alluvium, Bolson Deposits and	d Other Surface
Deposits (110AVMB) local a	aquifer.	

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period





Breaks in the plot represent a gap of at least one year between field measurements.

<u>Download a presentation-quality graph</u>

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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News

Accessibility Plug-Ins FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for New Mexico: Water Levels**

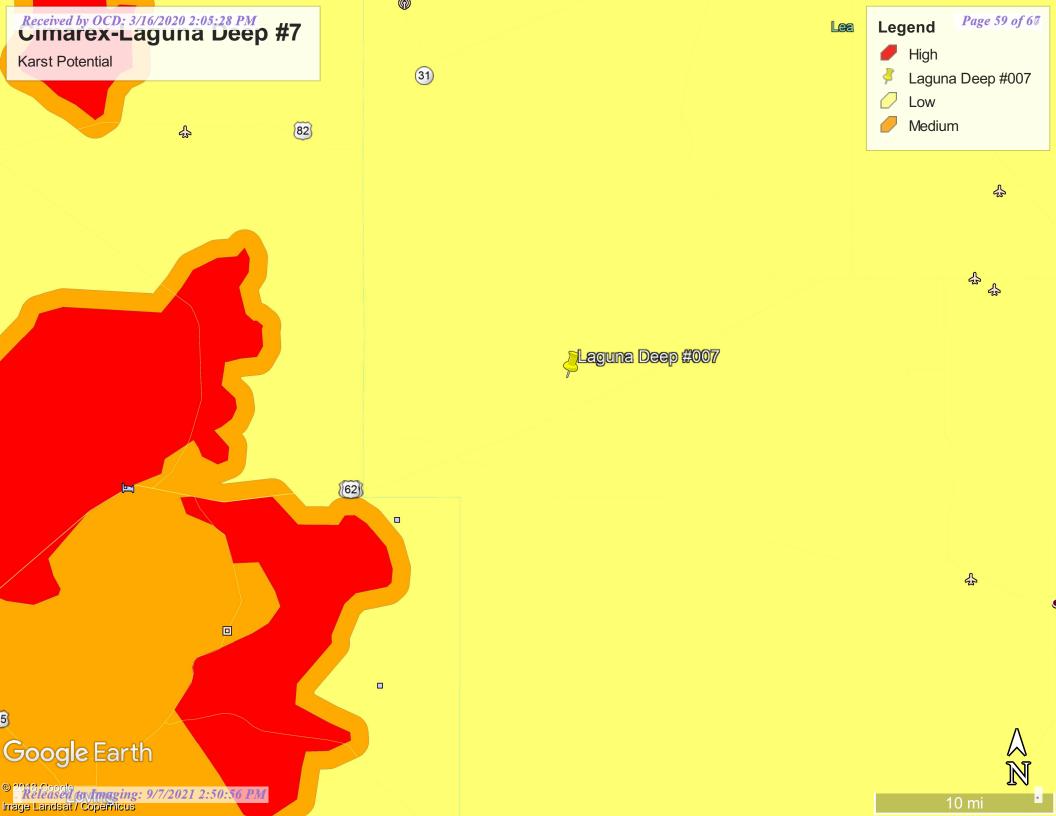
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer

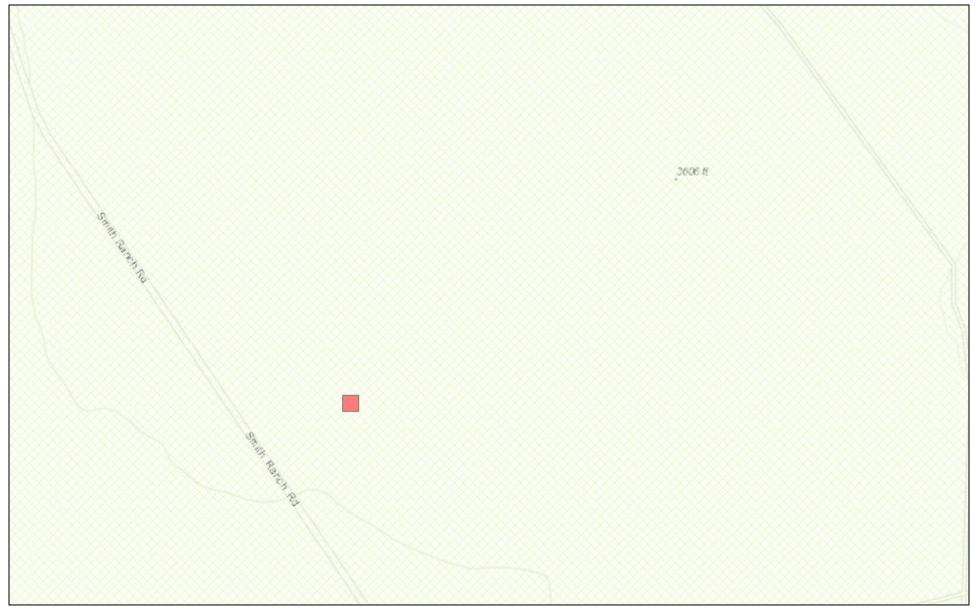
Page Last Modified: 2019-01-30 17:16:15 EST

1.43 1.2 nadww01

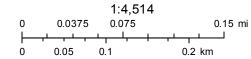




New Mexico NFHL Data



January 31, 2019



FEMA Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,

Appendix C: Specific Remediation Requirements

Lea County, New Mexico

KD—Kermit-Palomas fine sands, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpv Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 12 inches Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 70 percent Palomas and similar soils: 20 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope,

footslope

Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from

sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very

high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)

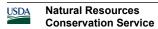
Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e



Hydrologic Soil Group: A

Ecological site: Deep Sand (R042XC005NM)

Hydric soil rating: No

Description of Palomas

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope,

footslope

Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Alluvium derived from sandstone

Typical profile

A - 0 to 16 inches: fine sand

Bt - 16 to 60 inches: sandy clay loam Bk - 60 to 66 inches: sandy loam

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 50 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0

to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 2.0

Available water storage in profile: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Minor Components

Pyote

Percent of map unit: 4 percent

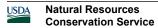
Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Maljamar

Percent of map unit: 4 percent

Ecological site: Loamy Sand (R042XC003NM)



Map Unit Description: Kermit-Palomas fine sands, 0 to 12 percent slopes---Lea County, New Mexico

Hydric soil rating: No

Dune land

Percent of map unit: 1 percent Hydric soil rating: No

Palomas

Percent of map unit: 1 percent

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 15, Sep 12, 2018

NMSLO Seed Mix

Deep Sand (DS)

1.1 BLOW SAND SITES REVEGETATION PLAN (BS)

Use this Revegetation Plan with the following ESD's:

CP2 - Sandy Plains, Sandhills, Deep Sand, Shallow Plains

HP3 - Loamy Sand, Sandy Plains, Sandhills, Deep Sand

SD3 - Loamy Sand, Deep Sand, Sandhills, Salt Meadow

Soil Texture: Fine Sand, Sand, Course Sand

Revegetation Procedures:

I. For flat or gently sloping areas with slopes less than or equal to 3H:1V:

- 1. **Soil Amendments:** Apply composted manure or similar at the rate of 30.0 air dry tons/acre.
- 2. **Fertilize:** Type 2
- 3. **Mulch** Grass Hay mulch applied at 2.0 tons/acre
- 4. Prepare the seedbed and incorporate mulch, fertilizer, and soil amendments:
 - Scarify
 - b. Disc (thoroughly mix mulch, fertilizer, and soil amendments in top 6-8 inches of soil before proceeding).
- 5. **Drill Seed** use rangeland drill and apply Drill box seed to 0.5-0.75 inch depth, apply small seed to surface and lightly cover with drag chains or packer wheels or equal.
- 6. **Mulch** Grass Hay mulch applied at 2.0 tons/acre
- 7. Crimp
- 8. **Tackify** tackify to minimize risk of mulch blowing and to hold soil and mulch in place until vegetation begins to establish.
- 9. **Wind Fence** Install wind fence.



DEEP SAND (DS) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Sand bluestem	Elida, VNS, So.	4.0	${f F}$	
Sideoats grama	Vaughn, El Reno	4.0	\mathbf{F}	
Little bluestem	Cimarron, Pastura	3.0	F	
Plains bristlegrass	VNS, Southern	1.0	\mathbf{D}	
Sand dropseed	VNS, Southern	2.0	\mathbf{S}	
Blue grama	Lovington	1.0	D	
7		CONTAIN F	7	
Forbs:	7000	90.0	8	
Firewheel (Gaillardia)	VNS, Southern	1.0	D	
Anuual Sunflower	VNS, Southern	0.5	D	
Prairie Conflower	VNS, Southern	0.5	D	
	Total PLS/acr	e 17	B	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 4537

CONDITIONS

Operator:	OGRID:
CIMAREX ENERGY CO. OF COLORADO	162683
600 N. Marienfeld Street	Action Number:
Midland, TX 79701	4537
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
bbillings	Approved, but please incorporate all available data in future reports.	9/7/2021