

January 28, 2016

AMARILLO

921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622 Mr. Mike Bratcher

NMOCD District 2 811 S. 1st Street

Artesia, NM 88210

Subject:

ARTESIA

408 West Texas Avenue Artesia, New Mexico 88210 Phone 575.746.8768 Soil Assessment and Remediation Work Plan

Devon Energy Corporation

Todd 36 F SWD

API#30-015-20341-2RP-3438

(Todd 26 30-015-20277)

FORT COLLINS

1811 East Mulberry Street Fort Collins, Colorado Phone 970.818.5330

Dear Mr. Bratcher

MIDLAND

2301 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment and proposed remediation activities consist of the following.

OKLAHOMA CITY

7700 North Hudson Avenue Suite 10 Oklàhoma City, Oklahoma 73116 Phone 405.486.7030

Incident Date

December 3, 2015

SAN ANTONIO

13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025

WOODWARD

1211 34th Street Suite 13 Woodward, Oklahoma 73801 Phone 580.377.1194 **Background Information**

The Todd 36 F SWD is located approximately thirty-eight (38) miles southeast of Carlsbad, New Mexico. The legal location for the site is Unit letter F of Section 26, Township 23S, Range 31E in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.271810 North and -103.744224 West. See site plan in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Simona and Wink fine sandy loams with 0 to 3 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocence to Middle Pleistocene in age and is comprised of eolian sands. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 430-feet below ground surface (bgs), according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

ENVIRONMENTAL CONSULTING
ENGINEERING
DRILLING
CONSTRUCTION
SPILL MANAGEMENT
GENERAL CONTRACTING

The ranking for this site is 0 based on the following:

Toll Free 866.742.0742 www.talonlpe.com

Depth to ground water >100'
Wellhead protection area >1000'
Distance to surface water body >1000'

Incident Description

Corrosion in a water line between the Todd 26 SWD and the Todd 36 SWD caused 1160 barrels of produced water to be released in the pasture. The values were shut at both the SWD's. A vac truck was immediately called to the location and recovered 30 barrels of water from the pasture. A site plan is presented in Appendix I, which illustrates the impacted areas.

Actions Taken

On December 4, 2015 Talon mobilized personnel to begin the preliminary site assessment and to collect initial soil samples from the stockpile of contaminated soil from around the broken water line for field titration of chlorides.

On December 16, 2015 personnel returned to the site to obtain vertical delineation samples which were required by NMOCD with a drill rig to a total depth of 85-feet below ground surface. The summarized laboratory results are presented in Table 1.

On December 23, 2015 personnel complete the horizontal assessment and sampling of the impacted area. Laboratory results from the soil sampling event are summarized in the table below. See Table 2.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The soil samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, and volatile organics (BTEX) using EPA Method 8021B. The chloride samples were analyzed per Method SM4500Cl-B.

Laboratory Results

See Appendix III for complete report of laboratory results.

December 22, 2015 Table 1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
B-1	0'	< 0.300	12200	<10	162
	2'	< 0.300	15600	<10	<10
	5'		12400		
	10'		12200		
	15'		12400		
	20'		14600		
	25'		3280		#
	30'		1640		
	35'		544		
	40'		624		
	45'		1960		
	50'		1600		

B-1	55'		896	
	60'		864	
	65'	de	512	
	70'		624	
	75'		544	
	80'		704	
	85'		<16	

December 29, 2015

Table 2

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1'	7	13200		-
	2'		15600		
	3'		8000		
	4'		7460		
S-2	1,		12800		
	2'		19400		
	3'		7860		-
	4'		6000		
S-3	1'	- 12	12300		-
	2'		14200		
Refusal	3'	- 1.44	18200		
S-4	1'		14800		
	2'	-	18000		
Refusal	2.5'		17600		
S-5	1'		14000		
	2'		22000		
	3'		9860	-	
Refusal	4'		19400		
S-6	1'		12200		
	2'		12800		
	3'		9000		
	4'		16400		
S-7	1'		14200		-
	2'		19800		
	3'		9600		
	4'		7860		
S-8	1'		14600	4-12-1-1	
	2'		21600		
	3'		1300		
1	4'		9200		

⁻⁻Analyte Not Tested

Based upon the site ranking of 0, NMOCD Recommended Remedial Action Levels (RRAL) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 5,000 mg/kg for TPH. The chloride standard is 1,000 mg/kg.

Proposed Remedial Actions

- The impacted soil around the pipelines will be hand-excavated until the liner can be safely installed below the water trunk line.
- The impacted areas within the perimeters of the GPS coordinates shown on the site map will be excavated to a depth of 4-feet deep and a 20 mil liner will be installed into the bottom of the excavation.
- The sidewalls of the excavation will be field titrated as the remediation activities are in progress to verify the horizontal impacts.
- All excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavation will be backfilled with clean top soil obtained from a local borrow pit, recontoured to match the surrounding terrain and seeded with the recommended BLM seed mixture for the area.
- A final closure report documenting all remedial actions and analytical results will be provided to the NMOCD Artesia Office along with a Final C-141 Form.

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,

Turberly M. Wilson

Kimberly M. Wilson

Project Manager

David J. Adkins

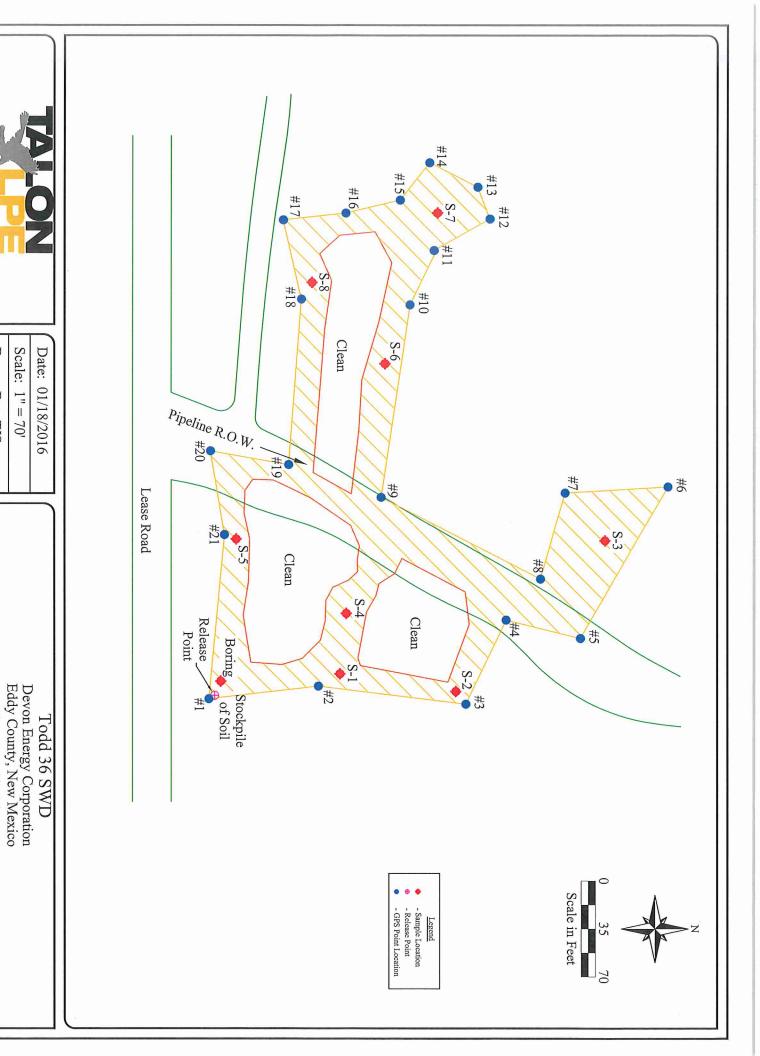
District Manager

APPENDIX I

SITE MAP

Perimeter GPS Coordinates Defining Impacted Area.

1.	32.271889	103.744292
2.	32.272116	103.744327
3.	32.272409	103.744276
4.	32.272487	103.744473
5.	32.272643	103.744429
6.	32.272819	103.744789
7.	32.272608	103.744768
8.	32.272550	103.744574
9.	32.272228	103.745760
10.	32.272288	103.745219
11.	32.272344	103.745342
12.	32.272452	103.745429
13.	32.272427	103.745497
14.	32.272331	103.745553
15.	32.272267	103.745467
16.	32.272161	103.745430
17.	32.272036	103.745421
18.	32.272066	103.745223
19.	32.272043	103.744838
20.	32.271891	103.744873
21.	32.271915	103.744675



Drawn By: TJS

Figure 1 - Site Plan

APPENDIX II GROUNDWATER DATA INITIAL C-141



New Mexico Office of the State Engineer Water Column/Average Depth to Water

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

C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

	POD		+==			344	77.0		Seller .				
	Sub-		Q	Q	2						Depth	Depth	Water
POD Number	Code basin	County	64	16 4	Sec	Tws	Rng	X	Y	Distance	Well	Water	Column
C 02258	С	ED		3 2	2 26	23S	31E	618055	3571853* 🌑	867	662		
C 02348	С	ED	1	4 :	3 26	23S	31E	617648	3571068 🌍	921	700	430	270
C 02405	С	ED		4	1 02	248	31E	617690	3568631* 🌑	2667	275	160	115
C 02464	С	ED	3	4	1 02	24S	31E	617589	3568530*	2796	320	205	115

Average Depth to Water: 26

265 feet

Minimum Depth:

160 feet

Maximum Depth:

430 feet

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 618565

Northing (Y): 3571151

Radius: 3000

NM OIL CONSERVATION ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

DEC 0 8 2015

Form C-141

Revised August 8, 2011

Submit 1 Copy to appropriate District Office in RECEIVED

Oil Conservation Division 1220 South St. Francis Dr.

Santa Fe, NM 87505 Release Notification and Corrective Action

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

NAB15	34451	2923	_1010	जनसङ्ख्या चर्चित्र स्थानित ।		OPERA'	ΓOR		- ⊠ Initia	al Report		Final Report		
Name of C	ompany De	von Energy			7	Contact Ruben Garcia Assistant Production Foreman								
	188 Seven R		Artesia, N	IM 88220			No. 575.748.52	209		***	,			
Facility Na	ime Todd 36	State I			l	Facility Ty								
Surface Ov	wner State			Mineral	Owner	Federal &	State		API No	. 30-015-2	0341			
				LOCA	ATIO	N OF RE	LEASE							
Unit Letter I	Section 26	Township 23S	Range 31E	Feet from the 990	North	/South Line FSL	Feet from the 1980		West Line FEL	County Eddy	•			
				Latitude: 32	.27181	() Longitude	: -103.744224							
				NAT	URE	OF REL	EASE							
Type of Rele	ease Spill P	roduced wat	эг			Volume of		AUL	Volume I 30 BBL	Recovered				
Source of Ro	elease Water	line leak				Date and 12/03/15 a	Hour of Occurre t 3:45 pm	ence		Hour of Dis at 3:45 pm	cove	r y		
Was Immediate Notice Given? ☐ Yes ☐ No ☐ Not Require						If YES, To	Whom? Amos							
By Whom? Ruben Garcia Production Assistant Foreman						Date and Hour 12/04/15 11:23 BLM 12/04/15 11:26 OCD								
Was a Wate	ercourse Rea		Yes 🛚	No		If YES, V	olume Impactin	g the W	atercourse					
If a Waterco	ourse was In	pacted, Des	cribe Full	y.* N/ A										
Corrosion ca	nuse of Probloused a water was currently	line leak con	ning from	the Todd 26 SW	D going	to the Todd 3	6 State 1. Shut v	alve at t	he Todd 26	SWD and va	lve at	the Todd 36		
1160 BBL of		ater was relea	ised and 3				a 21,681 square for remediation.	eet area.	. It was all o	on pasture, on	the r	north side of		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									ndanger f liability ıman health					
Signature: $oldsymbol{J}$	eanette 1	<u> </u>			OIL CON	ISER \	ATION	DIVISIO	N					
Printed Nam	e: Jeanette B			Approved by	Signed By Environmental S	Specialis	14 Bren st:	Med so		······································				
Title: Field /	Admin Supp			Approval Da	te: 12110 15	5	Expiration	Date: N	1_					
E-mail Addre				,,,,,,		Conditions o	ion per O.C.I). Rule	es & Guld	Attached elines				
Date: Attach Addi	12/08/1: itional Sheet			75,748,1813		SUBMIT	REMEDIATIO	NARQ	POSALI	4p	<u> </u>	DIATO		
			<i>J</i>							4		P-3438		

APPENDIX III LABORATORY RESULTS



December 22, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 26 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/21/15 11:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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. Keens

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



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

12/21/2015

Reported:

12/22/2015 TODD 26 SWD

Project Name: Project Number:

700794.176.01 **EDDY CTY**

Project Location:

Sampling Date:

12/16/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: B-1 0' (H503302-01)

BTEX 8021B	mg/kg		Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	12/21/2015	ND	2.20	110	2.00	1.51	
Toluene*	<0.050	0.050	12/21/2015	ND	2.25	113	2.00	1.29	
Ethylbenzene*	<0.050	0.050	12/21/2015	ND	2.06	103	2.00	2.62	
Total Xylenes*	<0.150	0.150	12/21/2015	ND	6.56	109	6.00	1.77	
Total BTEX	<0.300	0.300	12/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	12/21/2015	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	12/21/2015	ND	179	89.3	200	3.51	
DRO >C10-C28	162	10.0	12/21/2015	ND	179	89.7	200	1.86	
Surrogate: 1-Chlorooctane	115 %	6 35-147							
Surrogate: 1-Chlorooctadecane	111 %	6 28-171							

Cardinal Laboratories

*=Accredited Analyte

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 (575) 745-8905 Fax To:

Received:

Reported: Project Name: 12/21/2015 12/22/2015

TODD 26 SWD 700794.176.01

Project Number: Project Location:

EDDY CTY

Sampling Date:

12/16/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: B-1 2' (H503302-02)

BTEX 8021B	B mg/kg			Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/21/2015	ND	2.20	110	2.00	1.51	
Toluene*	<0.050	0.050	12/21/2015	ND	2.25	113	2.00	1.29	
Ethylbenzene*	<0.050	0.050	12/21/2015	ND	2.06	103	2.00	2.62	
Total Xylenes*	<0.150	0.150	12/21/2015	ND	6.56	109	6.00	1.77	
Total BTEX	<0.300	0.300	12/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.8 9	% 73.6-14)						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15600	16.0	12/21/2015	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	12/21/2015	ND	179	89.3	200	3.51	
DRO >C10-C28	<10.0	10.0	12/21/2015	ND	179	89.7	200	1.86	
Surrogate: 1-Chlorooctane	106 %	% 35-147	5						

Sample ID: B-1 5' (H503302-03)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	12/21/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keens



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: 12/21/2015 Reported: 12/22/2015

TODD 26 SWD Project Name: 700794.176.01 Project Number:

Project Location: **EDDY CTY** Sampling Date:

12/16/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: B-1 10' (H503302-04)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	12/21/2015	ND	400	100	400	3.92	
Sample ID: B-1 15' (H503302	2-05)								

Chloride, SM4500Cl-B mg/kg		kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12400	16.0	12/21/2015	ND	400	100	400	3.92	

Sample ID: B-1 20' (H503302-06)

Chloride, SM4500CI-B	de, SM4500CI-B mg/kg		Analyze	d By: AP		_			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14600	16.0	12/21/2015	ND	400	100	400	3.92	

Sample ID: B-1 25' (H503302-07)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3280	16.0	12/21/2015	ND	400	100	400	3.92	

Sample ID: B-1 30' (H503302-08)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1640	16.0	12/21/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Kreene



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To: (575) 745-8905

Received: Reported: 12/21/2015 12/22/2015

Project Name:

Project Number: 700794.176.01

Project Location:

TODD 26 SWD

EDDY CTY

Sampling Date:

12/16/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Sample ID: B-1 35' (H503302-09)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/21/2015	ND	400	100	400	3.92	
Sample ID: B-1 40' (H503	302-10)								
Chloride, SM4500CI-B	mg,	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	12/21/2015	ND	400	100	400	3.92	
Sample ID: B-1 45' (H503302-11) Chloride, SM4500Cl-B mg/kg Analyzed By: AP									
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	12/21/2015	ND	400	100	400	3.92	Qualific
Sample ID: B-1 50' (H503									
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1600	16.0	12/21/2015	ND	400	100	400	3.92	

Sample ID: B-1 55' (H503302-13)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	12/21/2015	ND	400	100	400	3.92	

Cardinal Laboratories

*=Accredited Analyte

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

Reported:

12/22/2015 TODD 26 SWD

Project Name: Project Number: Project Location:

700794.176.01

12/21/2015

EDDY CTY

Sampling Date:

12/16/2015

Sampling Type:

Soil Cool & Intact

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: B-1 60' (H503302-14)

	ide.			

mg/k		mg/	/k
------	--	-----	----

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	12/21/2015	ND	400	100	400	3.92	

Sample ID: B-1 65' (H503302-15)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	12/21/2015	ND	400	100	400	3.92	

Sample ID: B-1 70' (H503302-16)

Chloride, SM4500CI-B mg/kg			Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	624	16.0	12/21/2015	ND	400	100	400	3.92	

Sample ID: B-1 75' (H503302-17)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/22/2015	ND	416	104	400	7.41	

Sample ID: B-1 80' (H503302-18)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	12/22/2015	ND	416	104	400	7.41	

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Celeg & Keens



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/21/2015

Reported:

12/22/2015 TODD 26 SWD

Project Name: Project Number:

700794.176.01 Project Location: **EDDY CTY**

Sampling Date:

12/16/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: B-1 85' (H503302-19)

Chloride, SM4500CI-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	12/22/2015	ND	416	104	400	7.41	

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Celey D. Keine



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey & Keens



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Delivered By: (Circle One) Sampler - UPS - Bus - Other:	The second and the second seco	8 B-1 3 B-1	2000	11503902 1 B-1 0 2 B-1 2			101 East Mariano (575) 393-2326 F Ompany Name: Talon/LPE
rime: 6.5°c	at any other cause whatsoever shall be seemed was on an assemble of any other cause whatsoever shall be seemed when the shallow, business hall or concequent all amanges, including on when the shallow and the shallow of seed the shallow of seed to see the shall be seen to see the shall be seen to see the shall be shal	30 / 6 6 7 7 7 7 7 7 7 7	8/ 0'	5) 5) [G] # C GR	RAB OR (C)OMP. ONTAINERS OUNDWATER	Ve. State: NM Zip: 88210 Fax #: 575-746-8905 (H) Project Owner: Deven SLUD (H)	101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
THE CO	The control of the co	S B-1 30' G B-1 35'		SO OIII	UDGE THER: CID/BASE: E / COOL THER:	MATRIX	BO#:
Run +11 Chlevides Fall 6	Yes D No	to cleat for the applicable			Chleri TPH BTEX	ides	ANALYSIS
below 250 pm, as por	Add'l Phone #: Add'l Fax #:						Page 1812
R							



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Talon/LPE Project Manager: Address: 408 W. Texas Ave Project Name: Jodd 26 Project #: 700 794.176. Phone #: 575-746-8768 city: Artesia Project Location: Sampler Name: PLASE NOTE: Linking and Damages. Continuit's fability and ellerit's exclusive remedy for any dainy antique whether based in contract or took, that is be finited to the amount paid by the client for the particular analysis. At claims including those for medigenous and any other cause whatever shall be decimed walved unless made in witing and received by Continuit within 30 days after completion of the applicable, analysis, At claims including those for medigenous and any other cause whatever shall be decimed valved unless inharingblooks, loss of use, or loss of profits internet by client, its subschillation, and its analysis of the shall confirmed by client, its subschillation, business inharingblooks, loss of use, or loss of profits internet by client, its subschillation, and continue the shall confirmed by client, its subschillation, and continue the shall confirmed by client, its subschillation, and confirmed continued by client, its subschillation, and continued to confirmed by client, its subschillation, and confirmed continued by client, its subschillation, and continued by client, its subschillation, and continued to client and candinal be above stated reasons or client.

Phonge Result:

Page 101 | Page 201 Lab I.D. Relinduished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) 8 19 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Kim imberly 3-1 1 O. Sample I.D. 55 651 60' 10 200 80, 75 1500 1 Project Owner: Weller Fax #: 575-746-8905 State: NM Zip: 88210 Wilson Date: Time: (G)RAB OR (C)OMP. Received By: # CONTAINERS GROUNDWATER Sample Condition
Cool Infact
Yes Yes WASTEWATER MATRIX SOIL. ool Intact]Yes ☐ Yes | No ☐ No OIL SLUDGE MEDITA P.O. #: Attn: State: City: Company: Phone #: Fax #: Address: MEDILA WO OTHER: PRESERV ACID/BASE: ICE / COOL CHECKED BY: (Initials) OTHER: Talon/LPE Zip: SAMPLING DATE TIME plerides Kun Fil Chlaridae ☐ Yes N S ANALYSIS tall below REQUEST Willis. Ch

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



December 29, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TODD 26 SWD

Enclosed are the results of analyses for samples received by the laboratory on 12/23/15 12:03.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accred certif.html.

Cardinal Laboratories is 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



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/23/2015

Reported:

12/29/2015

Project Name:

TODD 26 SWD

Project Number: Project Location: 700794.176.01 **EDDY CTY**

Sampling Date:

12/23/2015

Sampling Type:

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S-1 1' (H503320-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 13200 Reporting Limit 16.0

16.0

16.0

16.0

Analyzed 12/29/2015

12/29/2015

Method Blank ND

BS 432

432

432

% Recovery 108

True Value QC 400

RPD

0.00

RPD

0.00

0.00

Qualifier

Sample ID: S-1 2' (H503320-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit Analyte Result

15600

8000

7460

Analyzed

Method Blank

ND

BS % Recovery

108

True Value QC

400

Qualifier

Sample ID: S-1 3' (H503320-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit Analyzed

12/29/2015

Method Blank ND

BS % Recovery True Value QC

400

RPD

Qualifier

Qualifier

Sample ID: S-1 4' (H503320-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Chloride

Reporting Limit Result

Analyzed 12/29/2015 Method Blank ND

BS 432 % Recovery 108

108

True Value QC 400

RPD 0.00

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Celeg & Keens

Celey D. Keene, Lab Director/Quality Manager



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

12/23/2015

Sampling Date:

12/23/2015

Reported:

12/29/2015

Sampling Type:

Soil

Project Name:

TODD 26 SWD

Sampling Condition:

** (See Notes)

Project Number: Project Location:

700794.176.01 EDDY CTY Sample Received By:

Celey D. Keene

Sample ID: S-2 1' (H503320-05)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	12/29/2015	ND	432	108	400	0.00	
Sample ID: S-2 2' (H503320-	-								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	12/29/2015	ND	432	108	400	0.00	
Sample ID: S-2 3' (H503320- Chloride, SM4500CI-B	07) mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7860	16.0	12/29/2015	ND	432	108	400	0.00	
Sample ID: S-2 4' (H503320-	08)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	12/29/2015	ND	432	108	400	0.00	
Sample ID: S-3 1' (H503320-	09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte		Deporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
•	Result	Reporting Limit	Analyzeu	rictiod blank	00	70 110001017	True Talae de		-

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To:

(575) 745-8905

Received: Reported: 12/23/2015

12/29/2015

Project Name:

TODD 26 SWD 700794.176.01

Project Number: Project Location:

EDDY CTY

Sampling Date:

12/23/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S-3 2' (H503320-10)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	12/29/2015	ND	432	108	400	0.00	
Sample ID: S-3 3' R (H5									
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18200	16.0	12/29/2015	ND	432	108	400	0.00	
Sample ID: S-4 1' (H5033 Chloride, SM4500Cl-B	32 0-12) mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14800	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-4 2' (H5033	320-13)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	18000	16.0	12/29/2015	ND	432	108	400	0.00	
Sample ID: S-4 2.5' R (H	1503320-14)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	17600	16.0	12/29/2015	ND	432	108	400	3.64	

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TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/23/2015

Reported:

CLI : L CMATROCCI D

12/29/2015

Project Name:

TODD 26 SWD 700794.176.01

Project Number: Project Location:

EDDY CTY

Sampling Date:

12/23/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S-5 1' (H503320-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-5 2' (H50332	0-16)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22000	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-5 3' (H50332: Chloride, SM4500Cl-B	0-17) mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
Chloride	9860	16.0	12/29/2015	ND ND	432	108	400	3.64	Qualifici
Sample ID: S-5 4' R (H503	3320-18)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19400	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-6 1' (H50332	0-19)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12200	16.0	12/29/2015	ND	432	108	400	3.64	

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Celey D. Keens



TALON LPE
KIMBERLY WILSON
408 W. TEXAS AVE.
ARTESIA NM, 88210
Fax To: (575) 745-8905

Received:

12/23/2015

Reported:

12/29/2015 TODD 26 SWD

Project Name: Project Number: Project Location:

700794.176.01 EDDY CTY Sampling Date:

12/23/2015

Sampling Type:

Soil

Sampling Condition:

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S-6 2' (H503320-20)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-6 3' (H50332	20-21)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9000	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-6 4' (H50332	20-22\								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-7 1' (H50332	20-23)								
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14200	16.0	12/29/2015	ND	432	108	400	3.64	
Sample ID: S-7 2' (H50332	20-24)								
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19800	16.0	12/29/2015	ND	432	108	400	3.64	•

Cardinal Laboratories

*=Accredited Analyte

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TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

12/23/2015

Reported:

12/29/2015 TODD 26 SWD

Project Name:

Project Number: 700794.176.01 Project Location:

Sampling Date:

12/23/2015

Sampling Type:

Sampling Condition: Sample Received By: ** (See Notes) Celey D. Keene

EDDY CTY

Sample ID: S-7 3' (H503320-25)

CHI	arid	_	CM	AE	nn	CI	_D
CIII	orid	e,	ויוכ	43	υu	u	-D

mg/kg

9600

Analyzed By: AP

Analyte

Result

Reporting Limit 16.0

Reporting Limit

Reporting Limit

Analyzed 12/29/2015 Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

3.64

RPD

3.64

Qualifier

Sample ID: S-7 4' (H503320-26)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed Method Blank BS

% Recovery

True Value QC

Qualifier

Chloride

Chloride

Result 7860

16.0 12/29/2015 ND

432

108

400

Sample ID: S-8 1' (H503320-27)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

% Recovery

True Value QC

400

RPD

Qualifier

Chloride

Result 14600

16.0 12/29/2015

Analyzed

ND

BS 432

108

3.64

Sample ID: S-8 2' (H503320-28)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Qualifier

Chloride

Chloride

Result 21600

Result

13000

16.0

Reporting Limit

Reporting Limit

16.0

12/29/2015

Method Blank ND

% Recovery

True Value QC

RPD

Sample ID: S-8 3' (H503320-29)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed

12/29/2015

432

BS

432

BS

108

400

3.64

RPD

3.64

Analyte

Analyzed By: AP

Method Blank

ND

% Recovery

108

True Value QC

400

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 12/23/2015

12/29/2015

TODD 26 SWD

Project Name: Project Number: Project Location:

700794.176.01 **EDDY CTY**

Sampling Condition:

Sampling Date:

Sampling Type:

12/23/2015 Soil

** (See Notes)

Sample Received By:

Celey D. Keene

Sample ID: S-8 4' (H503320-30)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9200	16.0	12/29/2015	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed 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. Keene



ND

Notes and Definitions

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

Analyte NOT DETECTED at or above the reporting limit

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Celeg D. Keene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Phone #: 575-746-8768 Project Manager: Company Name: Talon/LPE city: Artesia Address: 408 W. Texas Ave Project Name: Project #: 7110994 Sampler Name: Project Location: analyses. All claims including those for might shalling and cleant's exclusive remery for any claim axising whether based in confident or tart, areas on a sampless. All claims including those for magilipates and ong other cause whether one of the chemical waived unless made in willing and received by Card saving and the property of the confidence of th Relinquished By Lab I.D. FOR LAB USE ONLY Delivered By: (Circle One) 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 4.5 4 176.07 Sample I.D. 502 1 Project Owner: All Miro Fax #: 575-746-8905 Time; 1:0> State: NM Zip: 88210 1500 (G)RAB OR (C)OMP. 5 2 200 # CONTAINERS GROUNDWATER Coo Untact WASTEWATER MATRIX SOIL OIL SLUDGE meat or tart, shall be limited to the amount paid by the client for the grand necessived by Cardinal within 30 days after completion of the applicable forts, loss of tue, or loss of pints incurred by oftent, its subdifficates, laim is becard incon- and of the charm. P.O. #: State: city: Attn: OTHER: Address: Company: Fax #: Phone #: ACID/BASE: PRESERV ICE/COOL 316 16 OTHER: Talon/LPE Zip: DATE SAMPLING Phone Result:
Fax Result:
REMARKS: TIME ☐ Yes ☐ No Add'I Phone #: ANALYSIS REQUEST

Sampler - UPS - Bus - Other:

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

Jeh:12



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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	DATE	F)RAB OR CONTAINI PROUNDW.	Sample I.D.	Lab I.D.
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	PRESERV. SAMPLING	MATRIX		FOR IAB USE ONLY
	Fax#:	1/584	e: Kim lus	Sampler Name:
	Phone #:	The state of the s	Edda (Project Location:
	State: Zip:	ACHO	10 hode	Droject Name:
	City:	Project Owner: Allow	10.341.46.04	Project #: 700
	Address:	-	Phone #: 575-746-8768	Phone #: 57
	Attn:	State: NM Zip: 88210		City: Artasia
	company: Talon/LPE		Address: 408 W Texas Ave.	Address: 40
	P.O. #:	100 m	RIO	Project Manager:
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ANALYSIS REOLIEST		FAX (575) 393-2476	(575) 393-2326 FA	
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