

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 27 2014

Mr. Mike Bratcher **NMOCD District 2**

RECEIVED

AMARILLO 921 North Rivins Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622 811 S. 1st Street Artesia, NM 88210

Subject:

Soil Assessment and Remediation Work Plan

Cimarex Energy

Wersell Federal #002 30-015-24845 (2RP-2260)

408 West Texas Ave. Artesia, New Mexico 88210 Phone 575 746 8768 Fax 575.746.8905 Dear Mr. Bratcher

HORRS

ARTESIA

318 East Taylor Street Habbs, New Mexico 88240 Phone 575,393,4261 Fax 575.393.4658

Cimarex Energy (Cimarex) 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.

Background Information

MIDLAND 2901 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2I80

The Wersell Fed #002 is located approximately two miles east of Carlsbad, New Mexico. The legal location for this site is Unit Letter D, Section 4, Township 22 South and Range 27 East. More specifically the latitude and longitude for the release are 32.42735 North and -104.2009 West. A site plan is presented in Appendix I.

OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73II6 Phone 405.486.7030 Fax 806.467.0622

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 the Upton gravelly loam with 0 to 9 percent slopes. Per the New Mexico Bureau of Geology and Mineral Resources, The local surface and shallow geology is comprised of Holocene to upper Pleistocene alluvium. Drainage courses in this area are normally dry. Groundwater in the project vicinity is approximately 15-feet below ground surface (bgs) according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210,265,8025 Fax 210.568.2191

The ranking for this site is **20** based on the following:

Depth to ground water <50' Wellhead Protection Area >1000° Distance to surface water body >1000

ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT **GENERAL CONTRACTING**

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

The release was discovered March 14, 2014 and reported to Cimarex personnel. Vibration caused the threads of a 2-inch pipe to crack at a 45 degree connection releasing approximately 40bbls of produced water. 0bbls were recovered. The fluid flowed east from the edge of the location for approximately 120-feet. The pipe was repaired and put back into service and Talon mobilized personnel to conduct a site assessment and soil sampling in the impacted area.

Initially a hand auger was used in an attempt to delineate the site. However due to the rockiness of the soil, refusal was encountered between 0.5 and 1-foot bgs. Subsequently a backhoe was mobilized to further delineate the site. The backhoe encountered refusal at 2-feet bgs and field chloride data showed that the release had not been successfully delineated. Consequently, an excavator was mobilized to complete the vertical delineation. Laboratory and field results are summarized in the table below.

Laboratory & Field Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	ND	23200	ND.	ND
S-1	1		10400		
S-1.	2*		5317		
S-1	4		944		
S-1	7		816		
S-2	0	ND	19600	ND	ND
S-2			10000		
S-2	2*		2268		
S-2	3		4880		
S-2	8		1740		
S-2	11		272		
S-3	0	ND	24400	ND	ND
S-3	0.5		19800	l dryseegus	
S-3	2*		10422	<u></u>	
S-3	3, ,		192		
S-4	0	ND	15800	As a company to the second sec	
S-4	0.5		6100		
S-4	2*		1063		
S-4	3-4-11		128		
S-5	0	ND	21000	ND	ND
S-5	0.5		11000		
S-5	2*		2694		
S-5	3		64		4-1
S-6	0	ND	24800	ND	ND

S-6	that his	1		13000		
S-6		2*		7090		
S-6		3.	 :	384	 :	· > (),
BG-1		0		ND		

(--) Analyte Not Tested

(ND) Analyte Not Detected

(*) Field Result

Proposed Remedial Actions

- The impacted area in the vicinity of sample location S-1 will be excavated to a depth of 4-feet bgs.
- The impacted area in the vicinity of sample location S-2 will be excavated to a depth of 4-feet bgs and a 20-mil reinforced liner padded with felt will be installed to encapsulate the remaining chloride impacts.
- The impacted areas in the vicinity of sample location S-3, S-4, S-5, and S-6 will be excavated to a depth of 2.5-feet bgs.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated areas will be backfilled with top soil and contoured to match the surrounding terrain.

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,

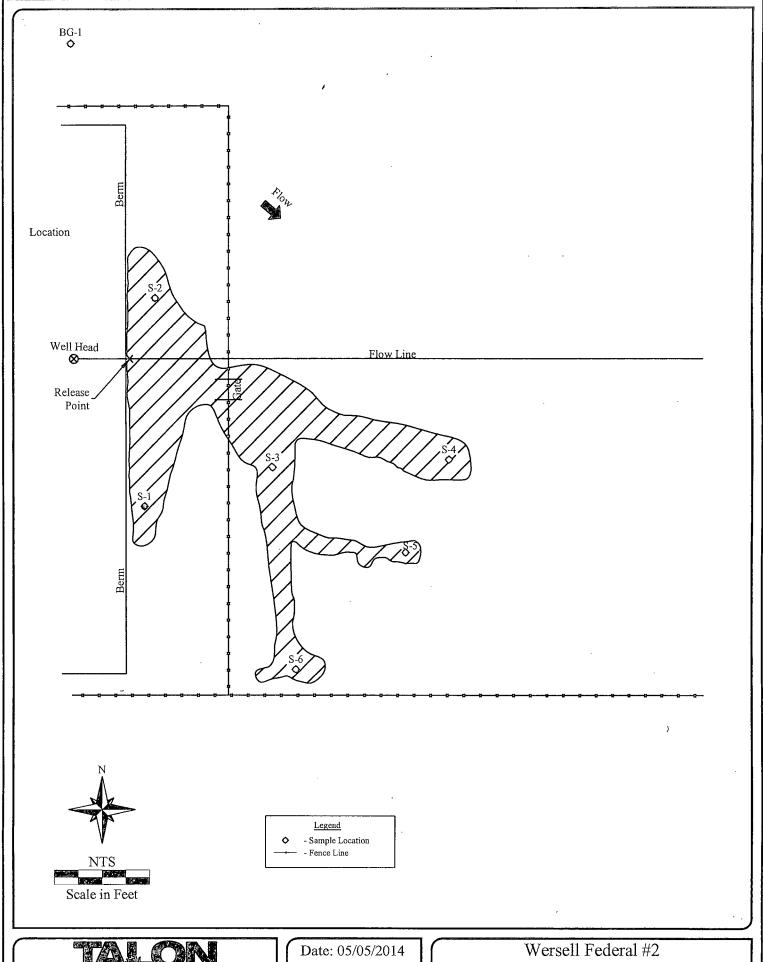
Sheldon Hitchcock

Project Manager

David J. Adkins

District Manager

SITE PLAN





Scale: NTS

Drawn By: TJS

Wersell Federal #2
Cimarex Energy
Eddy County, New Mexico
Figure 1 - Site Plan

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 smallest to largest)

allest to largest) (NAD83 UTM in meters)

(In feet)

	POD		_									
POD Number	Sub- Code basin (Sounty		Q C 16 4	-	Tws	Rng	X	Υ	Distance Well		Water Column
C 02193	С	ED		2	32	218	27E	574476	3588675* 🚱	856 55	15	40
C 00197	С	ED			32	21S	27E	574067	3589068*	1423 300		
C 00751	С	ED			32	218	27E	574067	3589068* 🚱	1423 325	15	310
C 00344	С	ED		3 3	32	218	27E	573464	3588465* 🌍	1669 180	17	163
C 02009	С	ED		3 3	32	21S	27E	573464	3588465* 🚱	1669 50	32	18
C 00589	С	ED	2	4 4	04	228	27E	576412	3586974* 🚱	1722		
C 03335	С	ED	4	1 3	3 29	218	27E	573636	3589020 🚱	1731 225	31	194
C 00566	С	ED	2	2 2	32	21S	27E	574773	3589785* 🍪	1737 323	18	305
C 00632	С	ED	2	2 2	32	218	27E	574773	3589785* 🎒	1737 270	30	240
C 00717	С	ED	3	3	05	22S	27E	573369	3587548*	1798 60	32	28
C 00660	С	ED	2	1 2	32	21S	27E	574368	3589780* 🔇	1849 325	14	311
C 00337	С	ED	1	1 2	2 32	21S	27E	574168	3589780* 🚱	1936 318	40	278
C 00783	С	ED	3	1 :	3 05	228	27E	573372	3587136* 🚱	1956 135	73	62

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

Average Depth to Water:

28 feet

Minimum Depth:

14 feet

Maximum Depth:

73 feet

Record Count: 13

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 575088

Northing (Y): 3588076

Radius: 2000

*UTM location was derived from PLSS - see Help

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

RECEIVED

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

State of New Mexico Energy Minerals and Natural Resources APR 1 0 2014

Form C-141 Revised August 8, 2011

1220 South St. Francis Dr.

Oil Conservation Division NMOCS sharing Constitution District Office in 1220 South St. Francis Dr.

Santa Fe, NM 87505

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None	19103	39495	···· Ca.w	pany 1626	x 7	OPERA	hnny Titsworth		X Initia	il Report I	inal Report
Name of Co	ompany: C	ienfield Suit	e 600 M	lidland, TX 797			No. (432)250-20	059			
Facility Nat				nunuici, 170 777		Facility Typ					
Surface Ow	ner: Fede	ral'		Mineral C)wner:				API No	. 30-015-24845	
,				LOCA	ATION	OF REI	LEASE				
Unit Letter D	Section 4	Township 22S	Range 27E	Feet from the 660	North/ FNL	South Line	Feet from the 660	East/W FWL	Vest Line	County Eddy	
		,	· · · · · · · · · · · · · · · · · · ·	Latitude: 3	2.42735	Longitud	e: -104.2009				
				NAT	URE	OF REL	EASE				
Type of Rele							Release: 40			lecovered: 0	
Source of Re	lease: 2" p	ipe				Date & Flo 3/14/14 10	our of Occurrence	;	Date & H 3/14/14	our of Discovery:	
Was Immedi	ate Notice (Yes 🗌	No 🗌 Not Re	quired	If YES, To Kim Barto	Whom?		3114714	10.30	
By Whom?	Jennifer Va	an Curen				Date and I	lour: 3/14/14 10:	30			
Was a Water	course Rea		Yes 🗌	No		If YES, Vo	olume Impacting t	the Wate	ercourse.		
If a Waterco	urse was In	pacted, Descr	ibe Fully.	*		J			·		
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Describe Cau	ise of Probl	lemand Reme	dial Actic	nn Taken.*			:	···	· · · · · · · · · · · · · · · · · · ·		
				nck at a 45 degree	connect	ion. Impacte	d soil will be asse	essed and	d remediate	d.	
				-			•				
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		and Cleanup		ken.*							
in the pastur	e: 45°X45 ,	120 x6', 75'x	8								
		,									
I hereby cert	ify that the	information g	iven abov	e is true and com	olete to th	he best of my	knowledge and t	ınderstan	nd that purs	suant to NMOCD rul	es and
										eases which may end	
										ieve the operator of l r, surface water, hum	
or the enviro	nment. In	addition, NM0	OCD acce	ptance of a C-141	report d	oes not reliev	e the operator of	responsi	ibility for c	ompliance with any	other
federal, state	, or local la	ws and/or reg	ulations.		<u> </u>		OIL CON	SEDV	ATION	DIVISION	
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Signature:	—(>			,		1/		
Printed Nam	e: Johnny	Titsworth				Approved by	Environmental S	specialist	1: //~	~ f ~	
Title: Envir	onmental C	ompliance Co	ordinator	various districts and the second seco		Approval Da	te: 4/15-/10	4	Expiration	Date: NA	
E-mail Addr	ess: jtitswo	orth@cimarex	.com			Conditions o	f Approval:			Attached	
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LABORATORY RESULTS



May 08, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WERSELL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 04/30/14 17:00.

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

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey & Keene

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 SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

Reported:

04/30/2014

05/08/2014

Project Name: Project Number: WERSELL FED #2 701162.056.01

Project Location:

D-S4-T22S-R27E

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 0' (H401313-01)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	< 0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	< 0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-14	2						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	23200	16.0	05/05/2014	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	05/07/2014	ND	160	80.1	200	7.99	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93	
Surrogate: 1-Chlorooctane	98.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	92.2	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/08/2014

Sampling Type:

Soil

Project Name:

WERSELL FED #2

Sampling Condition:

Cool & Intact

Project Number: Project Location: 701162.056.01

Sample Received By:

Jodi Henson

D-S4-T22S-R27E

Sample ID: S-1 1' (H401313-02)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10400	16.0	05/07/2014	NĐ	400	100	400	0.00	

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*=Accredited Analyte

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Celey D. Keine



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/08/2014

Sampling Type:

Soil

Project Name:

WERSELL FED #2

Sampling Condition:

Cool & Intact

Project Number:

701162.056.01

Sample Received By:

Jodi Henson

Project Location:

D-S4-T22S-R27E

Sample ID: S-2 0' (H401313-03)

BTEX 8260B	mg/	kg	Analyze	d By: ms			···-		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	< 0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	94.9	% 61.3-14	2						
Surrogate: Toluene-d8	104 5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	99.7	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	19600	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93	
Surrogate: 1-Chlorooctane	106	% 65.2-14	0						-
Surrogate: 1-Chlorooctadecane	105	% 63.6-15	4						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 04/30/2014

05/08/2014

Project Name:

WERSELL FED #2

Project Number:

701162.056.01

Project Location:

D-S4-T22S-R27E

9

Sampling Date: Sampling Type: 04/29/2014

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2(0') H401313-04)
Chloride, SM4500Cl-B

mg/kg

ab is correcting mistake mistake Analyzed By: AP

Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 10000 16.0 05/07/2014 ND 400 100 400 0.00

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



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

Received: Reported: 04/30/2014

05/08/2014

Project Name: Project Number: WERSELL FED #2 701162.056.01

Project Location:

D-S4-T22S-R27E

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 0' (H401313-05)

BTEX 8260B	mg	'kg	Analyze	d By: ms			_		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	95.7	% 61.3-14	2						-
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	103	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	24400	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93	
Surrogate: 1-Chlorooctane	102	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Kune



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 04/30/2014

05/08/2014

WERSELL FED #2

Project Number: Project Location:

Project Name:

D-S4-T22S-R27E

701162.056.01

Sampling Date: Sampling Type: 04/29/2014

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-3 0.5' (H401313-06)

Chloride, SM4500CI-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	05/07/2014	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey & Keene



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

04/30/2014

Reported: 05/08/2014

Project Name: WERSELL FED #2 Project Number: 701162.056.01 Project Location: D-S4-T22S-R27E

Sampling Date:

04/29/2014 Sampling Type: Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

Sample ID: S-4 0' (H401313-07)

Received:

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	< 0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	96.8	% 61.3-14	2						
Surrogate: Toluene-d8	108 9	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	102 %	65.7-14	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15800	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93	
Surrogate: 1-Chlorooctane	98.7	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	101 9	63.6-15	4						

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Celey D. Keine



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

Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/08/2014

Sampling Type:

Soil

Project Name:

WERSELL FED #2

Sampling Condition:

Cool & Intact

Project Number:

701162.056.01

Sample Received By:

Jodi Henson

Project Location:

D-S4-T22S-R27E

Sample ID: S-4 0.5' (H401313-08)

Chloride, SM4500CI-B	Analyze	Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6100	16.0	05/07/2014	ND	400	100	400	0.00	

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Celey D. Keine



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

1 42

04/30/2014

Reported: 05/08/2014

Project Name: WERSELL FED #2
Project Number: 701162.056.01

Project Location: D-S4-T22S-R27E

Sampling Date:

04/29/2014

Sampling Type: Soil

Cool & Intact

Sampling Condition: Sample Received By:

COOL & TITLE

Jodi Henson

Sample ID: S-5 0' (H401313-09)

Received:

BTEX 8260B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	<0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	<0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	96.6	% 61.3-14	2						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	101 5	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	21000	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93	
Surrogate: 1-Chlorooctane	105	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Celey D. Keine



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/30/2014

Sampling Date:

04/29/2014

Reported:

05/08/2014

Sampling Type:

Soil

Project Name:

WERSELL FED #2 701162.056.01

Sampling Condition:

Cool & Intact

Project Number: Project Location:

D-S4-T22S-R27E

Sample Received By:

Jodi Henson

Sample ID: S-5 0.5' (H401313-10)

Chloride, SM45UUCI-B	mg,	кg	Analyze	a By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11000	16.0	05/07/2014	ND	400	100	400	0.00	

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Celey D. Kuna



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

04/30/2014

Reported:

05/08/2014

Project Name: Project Number: WERSELL FED #2 701162.056.01

Project Location:

D-S4-T22S-R27E

Sampling Date:

04/29/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-6 0' (H401313-11)

BTEX 8260B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/08/2014	ND	2.31	115	2.00	7.09	
Toluene*	<0.050	0.050	05/08/2014	ND	2.34	117	2.00	7.54	
Ethylbenzene*	< 0.050	0.050	05/08/2014	ND	2.25	112	2.00	7.31	
Total Xylenes*	< 0.150	0.150	05/08/2014	ND	6.84	114	6.00	7.16	
Total BTEX	<0.300	0.300	05/08/2014	ND					
Surrogate: Dibromofluoromethane	97.8	% 61.3-14	2						
Surrogate: Toluene-d8	106	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	104	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	24800	16.0	05/07/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/07/2014	ND	160	80.1	200	7.99	
DRO >C10-C28	<10.0	10.0	05/07/2014	ND	176	88.2	200	9.93	
Surrogate: 1-Chlorooctane	111	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	% 63.6-15	4						

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Celey D. Keine



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

Received: Reported: 04/30/2014

05/08/2014

Project Name:

WERSELL FED #2 Project Number: 701162.056.01

Project Location:

D-S4-T22S-R27E

Sampling Date:

Sampling Type:

04/29/2014

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-6 1' (H401313-12)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte Result 13000 Reporting Limit 16.0

Analyzed 05/07/2014 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD

Oualifier

Sample ID: BG-1 0' (H401313-13)

Analyte

Chloride, SM4500Cl-B

mg/kg

Result

<16.0

Analyzed By: AP

Reporting Limit Analyzed 16.0 05/07/2014 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 0.00

0.00

Qualifier

Cardinal Laboratories

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Celey & 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 D. Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

				1		BI	LL TO	į				ANA	YSIS	RE	QUE	ST			
				P.(
W. Texas Ave.				company: Talon/LPE			falon/LPE												
State: NM	Zip:	88	3210	Attn:												}			
-746-8768 Fax #: 575-7	746	-89	905	Address:															
162.056.01 Project Owner	: C	ima	ırex	City:															
				State: Zip:						ł					l				
				Phone #:															
S. Hitchcock				Fax #:															
			MATRIX		PRESE	RV.	SAMPLING												
Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER:	ACID/BASE: ICE / COOL	OTHER:	DATE TIME	ТРН	BTEX	Chlorides									
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	Ğ	T				1	11:03		_/										***************************************
	**Talon/LPE r: W. Texas Ave. State: NM -746-8768 Fax #: 575-7 162.056.01 Project Owner Wersell Fed #2 n: D-S4-T22S-R27E S. Hitchcock Sample I.D. \$ -1 \(\cdot \) \$ -2 \(\cdot \) \$ -3 \(\cdot \) \$ -3 \(\cdot \) \$ -3 \(\cdot \) \$ -4 \(\cdot \) \$ -5 \(\cdot \)	T: W. Texas Ave. State: NM Zip: -746-8768 Fax #: 575-746 162.056.01 Project Owner: C: Wersell Fed #2 n: D-S4-T22S-R27E S. Hitchcock Sample I.D. \$\frac{1}{5} - \frac{1}{5} \frac{1}{5	**Talon/LPE r: W. Texas Ave. State: NM	## Talon/LPE ### Talon/LPE ### Talon/LPE ### W. Texas Ave. State: NM	## Talon/LPE ## W. Texas Ave. State: NM	### Talon/LPE ### Talon/LPE ### W. Texas Ave. State: NM	### ### ### ##########################	** Talon/LPE **: P.O. #: W. Texas Ave. State: NM Zip: 88210 -746-8768	No. Talon/LPE P.O. #: P.O. #: W. Texas Ave. Company: Talon/LPE Attn: A	## Talon/LPE ## Talon/LPE ## P.O. #: W. Texas Ave. State: NM zip: 88210 Attn: -746-8768	Talon/LPE	Talon/LPE	## Talon/LPE ## Talon/LPE ## W. Texas Ave. State: NM	State: NM Zip: 88210 Attn: Available Availab	## Talon/LPE ## Talon/LPE ## P.O. #: ## W. Texas Ave. State: NM zip: 88210 Attn: -746-8768	State: NM zip: 88210 Attn: Address: Company: Talon/LPE Address: Company: Talon/LPE	Talon/LPE P.O. #: P.	## Talon/LPE ## P.O. #: ## W. Texas Ave. State: NM zip: 88210 -746-8768	## Talon/LPE ## W. Texas Ave. State: NM zip: 88210

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Relinquished By:	Date: R	Received By:		Phone Result:	☐ Yes	D No	Add'l Phone #:
	4/30/14	// 1	\mathcal{A} .	Fax Result:	☐ Yes	□ No	Add'l Fax#:
Mil	Time:	1/ 11 (REMARKS:			
	3:05	/ meson) to mouth				
Relinquished By:	Datelスクルト	received By:	m U	j			
	100197	/11/1 A.	Aldrey A COLL	ì			
1 South Death	Time _ DO		KUMMUM				
1 1/1/20-01 13 - 13-01	1 3.000	Mules					
Delivered By: (Circle One)	(Sample Cond		l .			
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Sampler - UPS - Bus - Other:	30	19 Pres D	· / // 1				
L		No	No 97 '	<u> </u>			

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393/



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE						BI	LL TO						ANAL	YSIS	RE	QUE	ST				
Project Manage	r:				F	.O. #	:														
Address: 408	W. Texas Ave.					omp	any:	Talon/Ll	PE										ij		
city: Artesia	State:	NM zip: 8	38210)		ttn:													, 1		. 1
Phone #: 575		75-746-8	3905		/	ddre	ss:			1								. 1			
Project #: 701	162.056.01 Project	Owner: Cin	narex		c	ity:													l	i	
Project Name:	Wersell Fed #2				s	State: Zip:					İ										
Project Location: D-S4-T22S-R27E						hone	#:				j								, 1	1	. [
Sampler Name:	Sampler Name: S. Hitchcock					ax #:					1								. 1		
FOR LAB USE ONLY	[. [[X	PR	ESERV	SAMPL	NG													
		(G)RAB OR (C)OMP # CONTAINERS	E E									S								.	
Lab I.D.	Sample I.D.	(G)RAB OR (C)C	WA			ij	٦				X	Chlorides								1	
		AB C	S F		18 8	BA.	8 8			TPH	BTEX	핅								l	
H401313		(G) #	GROUNDWATER	SOIL	SLUDGE	ACIC	ICE / COOL OTHER:	DATE	TIME	Ĺ											
M	5-60	61		1/	11		4	4/29/14	11:05		\angle										
12	5-61	61	<u> </u>	[/]_	11		4		11:08			4									
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PLEASE NOTE: Liability a	nd Damages. Cardinal's liability and olient's exclusive in ing those for negligence and any other cause whatsoev	medy for any claim an	raing wheth	er based in d	contract or	tort, shall colved h	be limited	to the amount pa	d by the chent for completion of the	the ne applicat				اا				·			
service, in no event shall C	ardinal be fiable for incidental or correquental damage ing out of or related to the performance of services here	s, including without itm	nitation, busi	inesa interru	ptions, los	s of use,	or loss of p	xolits incurred by	žera, ža subsidia	ries,											
Relinquished B			ved B		<i>^</i>		A		Phone Re	sult:	☐ Yes			Add'i F		#:					
1 21 11	en Hiran 3:0	- I	' II.	_ (1.	. 1 . 4	. M.		Fax Resul		u res		NU	MUGIF	dX #:						
Relinquished B		Rece	ived B	<u>∽</u> /	19	W	WV.														l
Month	Steamh Time:			-																	
Delivered By	: (Circle One)			mple Co		n		KED BY: tials)													1
Sampler - UPS	- Bus - Other:			Yes [(1111	naisi													İ

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



June 10, 2014

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: WERSELL FED #2

Enclosed are the results of analyses for samples received by the laboratory on 06/03/14 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.qov/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 SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received: Reported: 06/03/2014

06/10/2014

WERSELL FED #2

Project Number: Project Location:

Project Name:

701162.056.01 D-S4-T22S-R27E Sampling Date:

Sampling Type: Soil Sampling Condition:

Sample Received By:

Cool & Intact

Jodi Henson

06/02/2014

Sample ID: S-1 4' (H401695-01)

Chloride, SM4500Cl-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Result 944

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Analyzed 06/09/2014

Analyzed

06/09/2014

Analyzed

Method Blank ND

ND

BS 400

BS

400

% Recovery 100

True Value QC 400

RPD

0.00

Sample ID: S-1 7' (H401695-02)

Chloride, SM4500Cl-B

Analyte

Analyte

mg/kg

Result

816

Analyzed By: AP

Method Blank

% Recovery

100

True Value QC

400

RPD

0.00

Qualifier

Qualifier

Sample ID: S-2 3' (H401695-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

BS

% Recovery True Value QC

RPD

Qualifier

Chloride

Chloride

4880

Result

1740

Result

16.0 06/09/2014 ND

400

100

400

0.00

Sample ID: S-2 8' (H401695-04)

Chioride, Si	44500CI-B
	Analyte

mg/kg

Analyzed By: AP

Analyzed 06/09/2014 Method Blank ND

BS 400

% Recovery 100

True Value QC 400

RPD 0.00 Qualifier

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Celeg & Keine



TALON LPE SHELDON HITCHCOCK 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Analyzed By: AP

Received:

06/03/2014

Reported:

Chloride, SM4500CI-B

06/10/2014

Project Name: Project Number: WERSELL FED #2 701162.056.01

Project Location:

D-S4-T22S-R27E

mg/kg

Sampling Date:

te: 06/02/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-2 11' (H401695-05)

Chloride, SM4500CI-B	mg	/кд	Anaiyze	a by: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	06/09/2014	ND	400	100	400	0.00	
Sample ID: S-3 3' (H4016	•								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	06/09/2014	ND	400	100	400	0.00	
Sample ID: S-4 3' (H4016	595-07)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	06/09/2014	ND	400	100	400	0.00	
Sample ID: S-5 3' (H4016	595-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/09/2014	ND	400	100	400	0.00	
Sample ID: S-6 3' (H4016	595-09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	06/09/2014	ND	400	100	400	0.00	

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Celey D. Keena



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. Keena



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	: Talon/LPE		•				THE STATE OF	Œ.	7	8/1	L TO))				ANAI	LYSIS	S RE	QUE	ST			
Project Manage	r:D. Adkins						P	.O. #	ł:								` `					ĺ		
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	-746-8768 Fax #: 575-7	746	-8	905			A	Address:				\	1,							-	ł			
Project #: 701	162.056.01 Project Owner	: C	im	arex	(City:]													
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Project Location							Phone #:														ŀ			
Sampler Name:	S. Hitchcock						F	ax#	:					١.				,				:		
FOR LAB USE ONLY					MAT	RIX		PR	ESE	RV.	SAMPLI	NG.].		1			•		.				
Lab I.D. H4 <i>01695</i>	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER :	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	Chlorides								•			
1	S-1 4'										6/2/14	10:35												
. 2	S-1 7'					\perp		_			111	11:00	\leq			<u> </u>								
3	S-2 3'				$\perp \perp$	_		_				9:30	$ \angle $						v					
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Relinquished By:	Date 13/14 Rece	ived By:		Phone Result:	☐ Yes	□ No	Add'l Phone #:
		\sim \sim 11	0	Fax Result:	☐ Yes	□ No	Add'i Fax #:
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Sampler - UPS - Bus - Other:	י שיב.	PYes PYes	(VIXI				
	<u> </u>	No No	-//				

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