





talonlpe.com • 866.742.0742



Closure Report

Ore Ida 14 Federal #10 SWD |30-015-29290|2RP-3222 & 2RP-4123|

Prepared For:

Devon Energy Production 6488 Seven Rivers Hwy Artesia, New Mexico 88210

Prepared By:

TALON/LPE 408 W. Texas Avenue Artesia, New Mexico 88210

July 11, 2017

Mr. Mike Shoemaker **Devon Energy Corporation**6488 Seven Rivers Hwy.

Artesia, New Mexico 88210

Subject:

Closure Report

Ore Ida 14 Federal #10 SWD

|30-015-29290| 2RP-3222 & 2RP-4123|

Dear Mr. Shoemaker,

Devon Energy Corporation (Devon) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

Site Information

The Ore Ida 14 Federal #10 is located approximately twenty-six (26) miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter I, Section 14, Township 24 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.2152138 North and -103.9494476 West. A site plan is presented 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 Kermit-Berino fine sands with 0 to 3 percent slopes. Drainage courses in this area are normally dry.

Ground Water and Site Ranking

The New Mexico Office of the State Engineer (NMOSE) Water Rights Reporting System indicates that groundwater in the project vicinity is 150-feet below ground surface (BGS). See Appendix II for the referenced groundwater data.

Therefore the ranking for this site is a **0** based on the following:

Depth to ground water >100'
Wellhead Protection Area >1000'
Distance to surface water body >1000'

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 and the recommended guideline for Total Chlorides is 1,000 mg/kg.

Incident Description

2RP-3222: A tank overflow resulted in the loss of approximately 85bbls of produced water into the lined tank battery. Approximately 60bbls of fluid were recovered. All fluid remained inside of the lined containment.

2RP-4123: A lightning strike resulted in the release of approximately 123bbls of produced water into the lined containment and onto the location. Approximately 120bbls of produced water were recovered. All of the fluid remained on the location.

Talon mobilized personnel to conduct a site assessment and perform soil sampling within the impacted area on the location utilizing a hand auger. Upon receipt of analytical results from this soil sampling event it was determined that further vertical delineation would be required. Subsequently Talon mobilized a backhoe and achieved vertical chloride delineation goals at sample location S-2. A geoprobe was mobilized to the site in order to vertically delineate sample locations S-1 and S-3.

Following completion of the vertical delineation at this site a remediation plan to address the impacts on the location was developed. In an effort to minimize down time, demolition (in preparation for reconstruction) of the tank battery took place in conjunction with the remediation of the impacted area on the location.

After the battery infrastructure was removed (tanks, liner, etc) the soil and berms directly beneath the battery area were excavated. Bottom and sidewall confirmation soil samples were taken in order to ensure that the liner was not compromised.

The results of the soil sampling events are summarized in the tables below. See Appendix V for complete report of laboratory results.

Laboratory Results

March 23, 2014 Hand Auger Sampling

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	< 0.300	1440*	<10.0	24.2
S-1	1		976*		
S-1	2	Barrier, deriet	1070*		
S-1	3		656*		
S-1	4		512*		
S-1	5		368*		
S-2	0	< 0.300	14000*	<10.0	<10.0
S-2	1		2320*		
S-2	2		992*		
S-2	3		816*		
S-2	4		1040*	-	
S-2	5		864*		
S-3	0	< 0.300	16000*	<10.0	<10.0
S-3	1		2960*		
S-3	2		5200*		
S-3	3		4800*		
S-3	4		4000*		
S-3	5		2840*		
S-4	0		160*		
S-5	0		160*		
S-6	0		32*		

April 28, 2017 Backhoe Delineation

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-1	6	1418
S-1	8	1418
S-1	10	850
S-1	12	496
S-1	14	709
S-2	6	1170*
S-2	8	864*
S-2	10	1120*
S-2	12	336*
S-2	14	160*
S-3	6	709
S-3	8	1205
S-3	10	1205
S-3	12	1063

May 16, 2017 Geoprobe Delineation

Sample ID	Depth (feet)	Chlorides (mg/kg)
S-1	15	1,134
S-1	20	2410
S-1	25	567
S-1	30	32*
S-3	15	463
S-3	20	709
S-3	25	425
S-3	30	283
S-3	38	32*

June 16, 2017 Confirmation Samples of Battery Area

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-7 Bottom	0.5		464*		
S-7 Bottom	1	< 0.300	336*	<10.0	<10.0
S-8 N. Sidewall	Sidewall		575*		
S-9 E. Sidewall	Sidewall		336*		
S-10 S. Sidewall	Sidewall		960*		المارية وملوات

⁽⁻⁻⁾ 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 and the recommended guideline for Total Chlorides is 1,000 mg/kg

^(*) Laboratory Chloride Confirmation

Remedial Actions Taken

- The area in the vicinity of sample location S-1 was excavated to a depth of 1-foot BGS.
- The area in the vicinity of sample location S-2 was excavated to a depth of 2-feet BGS.
- The impacted area in the vicinity of sample location S-3 was excavated to a depth of 4-feet BGS. A 20-mil reinforced liner padded with felt was installed at the bottom of the excavation in order to encapsulate the remaining chloride impacts.
- Following removal of the tank battery infrastructure the old tank battery berms were removed and the soil directly beneath the tank battery was scrapped to a depth of 0.5 to 1-foot BGS in order to remove any remaining gravel or debris from the demolition.
- Confirmation soil samples were taken from the bottom and sidewalls of the battery area to ensure that the liner had not been breached as a result of the lightning strike. Analytical results were below NMOCD RRAL's.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- Upon NMOCD & BLM review and approval of confirmation soil sampling results, the excavated areas were backfilled with caliche and contoured to match the surrounding location.

Closure

On behalf of Devon Energy Company we respectfully request that no further actions be required at this site and that closure of the two open RP's (2RP-3222 & 2RP-4123) be granted.

If we can provide additional information or be of further assistance, please contact our office at (575)-746-8768.

Respectfully submitted,

TALON/LPE

Sheldon Hitchcock Project Manager

David J. Adkins District Manager

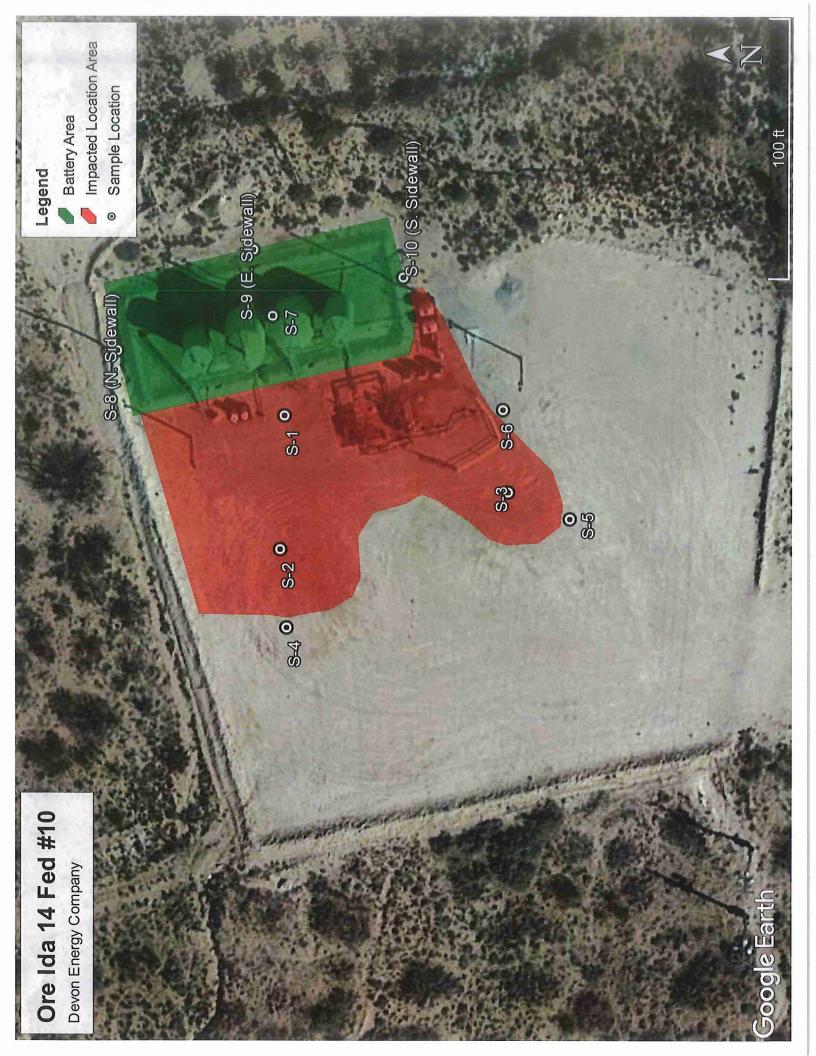
Attachments

Appendix I Site Plan

Appendix II Groundwater Data
Appendix III Initial C-141(s)
Appendix IV Final C-141(s)

Appendix V Laboratory Results

APPENDIX I SITE PLAN



APPENDIX II GROUNDWATER DATA



New Iviexico 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														
	Sub-		Q	Q	Q								Depth	Depth	Water
POD Number	Code basin	County	64	16	4 S	ec '	Tws	Rng		Х	Υ	Distance	A CONTRACTOR OF THE PARTY OF TH		Column
C 02109		ED	1	2	4 1	19	248	30E	60	2130	3563412	3375	130	150	-20
C 02108		ED		1	3 (80	248	30E	60	2702	3566487* 🌑	3994	200	186	14

Average Depth to Water:

168 feet

Minimum Depth:

150 feet

Maximum Depth:

186 feet

Record Count: 2

Basin/County Search:

County: Eddy

UTMNAD83 Radius Search (in meters):

Easting (X): 599067

Northing (Y): 3564830

Radius: 4000

*UTM location was derived from PLSS - see Help

APPENDIX III INITIAL C-141(s)

NM OIL CONSERVATION

State of New Mexico **Energy Minerals and Natural Resources**

ARTESIA DISTRICT

Form C-141

100.3222

Revised August 8, 2011

AUG 2 5 2015
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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

* Attach Additional Sheets If Necessary

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

	Sanu	arc	, INIVI 0/3	US	en consular responsable and	-Nation-Colorado - National - Nat			****
Releas	e Notificat	tion	and Co	rrective A	ction				•
NAB 1523931622	, 4		OPERAT	COR		☑ Initia	al Report		Final Repor
Name of Company Devon Energy Production				aniel Suniga					
Address 6488 Seven Rivers Hwy Artesia, NM	88220			No. 575-390-58	350			one one	
Facility Name Ore Ida 14 Fed 10		F	Facility Typ	e Oil					
Surface Owner Federal	Mineral Ow	ner l	Federal	•		API No	. 30-015-	29290	
	LOCAT	ION	OF REI	LEASE					
Unit Letter Section Township Range F			South Line	Feet from the	East/V	Vest Linc	County	A	
I 14 24S 29E	1980	S	outh	660	I	East	Eddy		
Latitude: N	32'21'53.45"		Lon	gitude: W 103	1 ¹ 94190	,29"	1		
	NATU	RE (OF RELI	EASE					
Type of Release Spill			Volume of	Release			Recovered		
Produced Water and Oil Source of Release			85 bbls Date and F	lour of Occurre	nce	60 bbls	Hour of D	iscover	·v
Pump malfunction			8/21/2015	@ 10:41 PM			5 @ 10:41 F		· J
Was Immediate Notice Given?		tat	If YES, To	Whom?					
∠ Yes LIN	o 🗌 Not Requ	irea	BLM OCD						
By Whom?	All de la constant de		Date and I						
David Simmons .				2015 @ 11:26 PI 2015 @ 11:31 PI					
Was a Watercourse Reached?				lume Impacting		atercourse			
☐ Yes ☒ N	0								
If a Watercourse was Impacted, Describe Fully.*									
Describe Cause of Problem and Remedial Action Lease operator arrived at location and discovered the		was o	ver flowing	causing an 85 bbl	produc	ed water a	nd oil spill i	nto lino	ed
containment. The pump was reset and within a minurecover 60 bbls of produced water and oil.									
recover 60 00/3 or produced water and this									
Describe Area Affected and Cleanup Action Tak Black River Trucking was called out and they were		A bble	of produced	water and oil E	ir	antal agan	ov will be a	ontacto	d for cleanun
Black River Trucking was called out and they were	able to recover o	ט טטוי	s or produced	water and on, 12	IVIIOIIIII	icinai agen	cy will be c	omacic	u for cicanup.
I hereby certify that the information given above is	true and complete	e to th	ne best of my	knowledge and u	ındersta	nd that pur	suant to NM	IOCD	rules and
regulations all operators are required to report and/o	or file certain rele	ase no	otifications a	nd perform correc	ctive act	ions for re	leases whicl	ı may e	ndanger
public health or the environment. The acceptance of should their operations have failed to adequately in									
or the environment. In addition, NMOCD acceptant									
federal, state, or local laws and/or regulations.				• •					
Signature: Corina Moya				<u>OIL CON</u>					
Signature: Cororum Moyu				Signed 1	By 7	1/4 /) KARBULE	Ber	
Printed Name: Corina Moya			Approved by	Environmental S				A	
Title: Field Admin Support			Approval Dat	e: 8/21/15		Expiration	Date: M	4	
						-Aprillion	71101	V	Military and the second
E-mail Address: corina.moya@dvn.com			Conditions of	i Approval: p er O.C.D. Ru	م مواد	Cuidali-	Attache	d 🔲	
Date: 8/25/2015 Phone: 575.74	6.5559]."	veuidhun	per U.U.U. MU	1162 (1	GUIGBIIL	1622		

LATER THAN:

NM OIL CONSERVATION

ARTESIA DISTRICI

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

FEB 2 2017

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in RECEIVED accordance with 19.15.29 NMAC.

South St. Francis Dr.

RECEIVED

•			Rele	ease Notifica	ation	and Co	rrective A	ction				
NAB	17052	46718				OPERA	ГOR		✓ Initia	al Report		Final Report
		evon Energy					esley Ryan, Pr		n Forema	n		
		Rivers Hwy		M 88220			No. 575-390-54	136	***************************************			
Facility Na	me Ore Id	a 14 Federal	10			Facility Ty	pe SWD					
Surface Ov	vner Fedei	ral		Mineral O	wner	Federal			API No	. 30-015-2	29290	
grave and the second se						OF REI						
Unit Letter I	Section 14	Township 24S	Range 29E	Feet from the 1780		South Line FSL	Feet from the 860		Vest Line ÆL	County: Ed	ldy	
•				Latitude: 32.215				76				Observation
Type of Rele				NATU	JKE	OF RELI		т	¥7.1			
Produced Wa						Volume of 123 BBLS	Keiease		120 BBL	Recovered		
Source of Ro						Date and I	Hour of Occurre	ence	Date and	Hour of Di		у
Gun Barrel Was Immed	into Notico	Cinana	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			2-13-2017 If YES, To	@ 2:30 pm	<u> </u>	2-13-2017	7 @ 2:30 pm	<u> </u>	
was minieu	iate Notice		Yes [No 🔲 Not Req	uired	BLM- Shell	lly Tucker					
By Whom?		*******				Date and I	Hour					
		tion Forema	n				ly Tucker-2-14-2 Bratcher-2-14-2					
Was a Wate	rcourse Re		Yes 🛚	No		If YES, Vo	olume Impacting	g the Wa	tercourse			
If a Waterco	ourse was I	mpacted, Des	cribe Ful	ly.* N/ A						<u></u>		
The SWD was were immedi protection in	as struck by ately turned stalled on it	l off to preven	ilting in a t further re	fire and a release of elease. The local fi								
123 BBLS of recovered 12	f produced v 0 BBLS of	produced wate	eased whe er. A rem	n lighting struck the ediation contractor	will be	contacted to	complete remed	iation act	ivities.		•	
regulations a public health should their or the enviro	II operators or the envi operations h nment. In a	are required to ronment. The save failed to	o report ar acceptance adequately XCD accep	is true and comple ad/or file certain rel the of a C-141 report investigate and rer tance of a C-141 re	case not by the nediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final R on that pose a the	ctive acti Report" de reat to gre	ons for rele oes not reli ound water	eases which eve the oper , surface wa	may er rator of iter, hu	ndanger f liability man health
8:)	1 ~0			l		OIL CON	SERV	<u>ATION</u>	DIVISIO	N	
Signature: T Printed Name						Annroved hv	Environ Sizmar s	Bucialist	1/4 8	I KANTAL SA	,	
Title: Field						Approval Dat	Mail.	σ	Expiration	Date: N	A	
		elarosa@dvi	n.com			Conditions of			. 4	Attached		
Date:		Phone:	575.746.5	5594			Sel a	Hac	hed		<u> </u>	

* Attach Additional Sheets If Necessary

2RP-4123

APPENDIX IV FINAL C-141(s)

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

Form C-141 Revised April 3, 2017

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

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

			Kele	ease Nothic	ation	and Co	rrective A	ction				
						OPERA	ΓOR		☐ Initia	ıl Report	\boxtimes	Final Repor
Name of Co	mpany De	von Energy	Compan	y			e Shoemaker			t		
		Rivers Hwy.			-	Telephone N	lo. 575-746-556	56				
		14 Federal			J	Facility Typ	e SWD					
Surface Ow	ner BLM			Mineral O	wner F	ederal			API No	. 30-015-2	9290	
				LOCA	TION	OF REI	LEASE					
Unit Letter I	Section 14	Township 24S	Range 29E	Feet from the 1780		South Line South	Feet from the 860	1	/est Line East	County Eddy		
			Latitud	e 32,2152138	Loi	ngitude <u>-1(</u>	3.9494476	NAD8	33			
				NAT	URE	OF REL	EASE					
Type of Rele			V-2				Release 85bbls			Recovered 6		
Source of Re	lease Trans	fer Pump					lour of Occurrenc @ 10:41 pm	e		Hour of Dis (a) 10:41 p		
Was Immedi	ate Notice (Given?				If YES, To			G/ZI/ZOTE	, се то. т р		
			Yes	No 🗌 Not Re	equired	BLM, OCI						
By Whom? I							lour August 21, 2					
Was a Water	course Read		Yes 🗵] No	If YES, Vo	If YES, Volume Impacting the Watercourse.						
If a Watercon	urse was Im	pacted, Descr	ibe Fully.	ķ								
		•	•									
A lease opera	ator arrived	em and Reme at location an ed over flowi	d discovei	n Taken.* red that the water to trucks were util	tank was	s over flowing recover the st	g causing an 85 bl anding fluid with	bl spill is	nto the line	ed containm	ent. The	e pump was
The release v	vas contain Jpon NMO	and Cleanup A ed to the well CD approval of remediation ac	pad. The f f confirma	acility infrastructu ation sample resul	are was t	removed. Res	nediation activitions backfilled and c	es were ontoured	carried out	in accordan	ice with	NMOCD cation. A
regulations a public health should their or the enviro	Il operators or the envious loperations longer	are required to ronment. The nave failed to	o report and acceptant adequately OCD accept	e is true and comp nd/or file certain r ce of a C-141 repo investigate and r otance of a C-141	elease no ort by the emediate	otifications a e NMOCD m e contaminat	nd perform correct arked as "Final R on that pose a thr	ctive acti eport" d eat to gr	ons for rele oes not rele ound water	eases which ieve the ope r, surface wa	may er rator of ater, hu	ndanger Fliability man health
							OIL CON	<u>SERV</u>	<u>ATION</u>	DIVISIO	<u> NC</u>	
Signature:												
Printed Nam	e: Mike She	oemaker				Approved by Environmental Specialist:						
Title: EHS R						Approval Da	te:	Expiration Date:				
E-mail Addr	ess: Mike.S	hoemaker@d	vn.com			Conditions o	f Approval:			Attached	ı 🖂	
Date: 7/11/2	017		Phone: :	575-746-5566								

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

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

2RP-4123

			Kele	ease Notific	ation	and Co	rrective A	ction					
						OPERA	ΓOR		☐ Initia	l Report	\boxtimes	Final Report	
Name of Co	mpany De	von Energy	Company	У	(Contact Mik	e Shoemaker			•			
Address 648					-	relephone N	lo. 575-746 - 556	66					
Facility Nan					I	Facility Typ	e SWD						
Surface Own	ner BLM			Mineral O	wner F	ederal			API No	. 30-015-2	9290		
				LOCA	TION	OF REI	LEASE						
Unit Letter I	Section 14	Township 24S	Range 29E	Feet from the 1780		South Line South	Feet from the 860		Vest Line East	County Eddy			
			Latitud	e_32.2152138	Lor	ngitude10	3.9494476	NAD	83				
				NAT	URE	OF RELI							
Type of Relea							Release 123bbls			ecovered 1			
Source of Re					- Charles	Date and H 2/13/2017	covery						
Was Immedia	ate Notice C		Yes] No 🔲 Not Re	quired	If YES, To BLM-Shell OCD-Mike							
By Whom? V	Vesley Ryar	n, Production	Foreman			Date and Hour BLM-Shelly Tucker 2/14/17 @ 6:30 am OCD-Mike Bratcher 2/14/17 @ 8:04 am							
Was a Water	course Reac		Yes 🗵] No			lume Impacting t						
If a Watercou	ırse was Im	pacted, Descri	be Fully.	k									
prevent the re	s struck by elease of ad	lightning resu ditional fluid.	ılting in a The local	n Taken.* fire and a release of fire department re cimately 120bbls of	sponde	bls of productions of and extingu	eed water. The valished the fire. Va	lves and acuum ti	power wer	re immediate dispatched t	ely shu to the s	t off to ite to recover	
The release v	vas containe	and Cleanup And to the lined RAL's. The in	facility. T	cen.* The facility infrastre a on the well pad	ucture v was vei	was removed. rtically/horiz	Confirmation so ontally delineated	il sample and ren	es were tak nediated pe	en undernea r NMOCD	nth the	liner and	
regulations a public health should their or or the environ	Il operators or the environerations homent. In a	are required to ronment. The tave failed to a	o report an acceptand adequately OCD accep	e is true and compled is true and compled of a C-141 report investigate and restance of a C-141 report and restance of a C-141 report investigate.	elease northert by the emediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive acti eport" d eat to gr	ions for rele oes not rele ound water	eases which leve the ope r, surface wa	may en rator of ater, hu	ndanger Fliability man health	
							OIL CON	<u>SERV</u>	ATION	DIVISIO	<u>NC</u>		
Signature:													
Printed Name	e: Mike Sho	emaker				Approved by	Environmental S	pecialis	t:				
Title: EHS R					Approval Date: Expiration Date:								
		hoemaker@dv	n.com			Conditions o		•		Attached			
Date: 7/11/20	017		Phone: 5	575-746-5566									

APPENDIX V LABORATORY RESULTS



April 07, 2017

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ORE IDA SWD

Enclosed are the results of analyses for samples received by the laboratory on 03/24/17 15:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/07/2017

Sampling Type:

Soil

Project Name:

ORE IDA SWD

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Tamara Oldaker

Project Location:

NOT GIVEN

Sample ID: S-1 0' (H700788-01)

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	03/28/2017	ND	1.88	93.8	2.00	0.209	
Toluene*	<0.050	0.050	03/28/2017	ND	1.82	90.8	2.00	0.238	
Ethylbenzene*	<0.050	0.050	03/28/2017	ND	1.83	91.6	2.00	0.142	
Total Xylenes*	<0.150	0.150	03/28/2017	ND	5.26	87.7	6.00	0.0853	
Total BTEX	<0.300	0.300	03/28/2017	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.8 %	6 72-148							
Chloride, SM4500Cl-B	mg/l	(g	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	03/27/2017	ND	432	108	400	0.00	
TPH 8015M	mg/l	κg	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	03/28/2017	ND	184	92.0	200	2.70	
DRO >C10-C28	24.2	10.0	03/28/2017	ND	193	96.5	200	2.06	
Surrogate: 1-Chlorooctane	81.4%	6 25.1-158	}						
Surrogate: 1-Chlorooctadecane	87.9 %	6 26.8-170)						

Sample ID: S-1 1' (H700788-02)

Chloride, SM4500Cl-B	Chloride, SM4500Cl-B mg/kg		Analyze	d By: HM		· · · · · · · · · · · · · · · · · · ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	976	16.0	03/29/2017	ND	448	112	400	3.51	

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 valved 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



TALON LPE DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/07/2017

Sampling Type:

Soil

Project Name:

ORE IDA SWD

Sampling Condition:

Cool & Intact

Project Number: Project Location: NONE GIVEN NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: S-1 2' (H700788-03)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Reporting Limit

Reporting Limit

Method Blank ND

BS % Recovery True Value QC

RPD Qualifier

Chloride

Result 1070

16.0 03/30/2017

Analyzed

Analyzed

104 416

400

Sample ID: S-1 3' (H700788-04)

Chloride, SM4500Cl-B

Analyte

Analyte

Analyte

mg/kg

Analyzed By: AC

% Recovery

RPD

3.64

0.00

Qualifier

Chloride

Result 656

16.0 04/03/2017 Method Blank ND

BS 432

108

True Value QC 400

Sample ID: S-1 4' (H700788-05)

Chloride, SM4500Cl-B

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Result Reporting Limit Analyzed

Method Blank

% Recovery

True Value QC

Chloride

512

368

04/05/2017 16.0

ND

BS 448

112

400

RPD 3.51 Qualifier

Chloride

Sample ID: S-1 5' (H700788-06)

mg/kg

Analyzed By: AC

Reporting Limit Result

16.0

Analyzed 04/07/2017 Method Blank

ND

BS 432

% Recovery

108

True Value QC 400

RPD 3.64 Qualifier

Cardinal Laboratories

*=Accredited Analyte

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 daim 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. Keen

Celey D. Keene, Lab Director/Quality Manager



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

Received:

03/24/2017

Reported: Project Name:

04/07/2017 ORE IDA SWD Project Number: NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

03/23/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: S-2 0' (H700788-07)

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	03/28/2017	ND	1.88	93.8	2.00	0.209	
Toluene*	<0.050	0.050	03/28/2017	ND	1.82	90.8	2.00	0.238	
Ethylbenzene*	<0.050	0.050	03/28/2017	ND	1.83	91.6	2.00	0.142	
Total Xylenes*	<0.150	0.150	03/28/2017	ND	5.26	87.7	6.00	0.0853	
Total BTEX	<0.300	0.300	03/28/2017	ND		-			

Surrogate: 4-Bromofluorobenzene (PIL

98.5 %

72-148

mg/	/kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
14000	16.0	03/27/2017	ND	432	108	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	03/28/2017	ND	184	92.0	200	2.70	
<10.0	10.0	03/28/2017	ND	193	96.5	200	2.06	
	Result 14000 mg/ Result <10.0	14000 16.0 mg/kg Result Reporting Limit <10.0 10.0	Result Reporting Limit Analyzed 14000 16.0 03/27/2017 mg/kg Analyzed Result Reporting Limit Analyzed <10.0	Result Reporting Limit Analyzed Method Blank 14000 16.0 03/27/2017 ND mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank <10.0	Result Reporting Limit Analyzed Method Blank BS 14000 16.0 03/27/2017 ND 432 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery 14000 16.0 03/27/2017 ND 432 108 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 14000 16.0 03/27/2017 ND 432 108 400 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <10.0	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 14000 16.0 03/27/2017 ND 432 108 400 0.00 mg/kg Analyzed By: MS Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <10.0

Surrogate: 1-Chlorooctane

86.4%

25.1-158

Surrogate: 1-Chlorooctadecane

86.8 %

26.8-170

Sample ID: S-2 1' (H700788-08)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2320	16.0	03/29/2017	ND	432	108	400	3.64	QM-07

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Ulability 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 dalm 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. Kee



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

Received:

03/24/2017

Reported: Project Name: 04/07/2017 ORE IDA SWD

Project Number: Project Location:

Analyte

Analyte

NONE GIVEN

Result

992

Result

816

Sampling Date:

03/23/2017

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Tamara Oldaker

Sample ID: S-2 2' (H700788-09)

Chloride,	SM4500CI-B

mg/kg

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed By: HM

Analyzed

03/30/2017

Analyzed

04/03/2017

Analyzed

Method Blank

ND

BS % Recovery

416

432

True Value QC

400

RPD 0.00 Qualifier

Chloride

Chloride

Chloride

Sample ID: S-2 3' (H700788-10)

Chloride,	SM4500C	-B

mg/kg

Analyzed By: AC

maryzed by: AC

Method Blank

ND

BS % Recovery

104

108

% Recovery

112

True Value QC

400

RPD

3.64

Qualifier

Sample ID: S-2 4' (H700788-11)

Ch	or	ide,	SM	45	00	CI-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit

1040 16.0

16.0 04/05/2017

Method Blank ND BS 448 True Value QC 400 RPD 3.51 Qualifier

Qualifier

Sample ID: S-2 5' (H700788-12)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
Chloride	864	16.0	04/07/2017	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 urless 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



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

To: (575) 745-8905

Received:

03/24/2017

Sampling Date:

03/23/2017

Reported:

04/07/2017

Sampling Type:

Soil

Project Name:

ORE IDA SWD

Sampling Condition: Sample Received By:

Cool & Intact Tamara Oldaker

Project Number:

NONE GIVEN

Project Location: NOT GIVEN

Sample ID: S-3 0' (H700788-13)

mg/	kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	03/28/2017	ND	1.88	93.8	2.00	0.209	
<0.050	0.050	03/28/2017	ND	1.82	90.8	2.00	0.238	
<0.050	0.050	03/28/2017	ND	1.83	91.6	2.00	0.142	
<0.150	0.150	03/28/2017	ND	5.26	87.7	6.00	0.0853	
<0.300	0.300	03/28/2017	ND					
	Result <0.050 <0.050 <0.050 <0.150	<0.050	Result Reporting Limit Analyzed <0.050 0.050 03/28/2017 <0.050 0.050 03/28/2017 <0.050 0.050 03/28/2017 <0.150 0.150 03/28/2017	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

Surrogate: 4-Bromofluorobenzene (PIL

97.3 %

72-148

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	03/27/2017	ND	432	108	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	03/28/2017	ND	184	92.0	200	2.70	
DRO >C10-C28	<10.0	10.0	03/28/2017	ND	193	96.5	200	2.06	

Surrogate: 1-Chlorooctane

83.9 %

25.1-158

Surrogate: 1-Chlorooctadecane

82.1 %

26.8-170

Sample ID: S-3 1' (H700788-14)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	03/29/2017	ND	432	108	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 subidialries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claims 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.

Celeg D. Keene



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

Received: Reported: 03/24/2017

04/07/2017

Project Name: Project Number: ORE IDA SWD NONE GIVEN

Project Location:

Analyte

Analyte

Analyte

Analyte

NOT GIVEN

Sampling Date:

03/23/2017

Sampling Type:

Sampling Condition:

Sample Received By:

Soil Cool & Intact

Tamara Oldaker

Sample ID: S-3 2' (H700788-15)

Chloride, SM4500CI-B

mg/kg

Result

5200

Reporting Limit

16.0

Reporting Limit

Reporting Limit

Reporting Limit

Reporting Limit

16.0

Analyzed

03/30/2017

Analyzed

Analyzed By: HM

Method Blank

% Recovery 104

True Value QC 400

RPD

0.00

Sample ID: S-3 3' (H700788-16)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Method Blank

ND

BS

BS

416

% Recovery True Value QC RPD

Qualifier

Qualifier

Chloride

Chloride

4800

Result

04/03/2017 16.0

ND

432

108

400

3.64

Sample ID: S-3 4' (H700788-17)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank ND

BS

448

% Recovery True Value QC

RPD

Qualifier

Chloride

Result 4000

16.0 04/05/2017

112

400

3.51

Sample ID: S-3 5' (H700788-18)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyzed

Method Blank

BS

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

2840

Result

160

Result

16.0 04/07/2017

ND

432

3.64

Sample ID: S-4 0' (H700788-19)

Analyte

mg/kg

Analyzed By: AC

432

108

108

400

400

Chloride, SM4500CI-B

Analyzed

04/07/2017

Method Blank

ND

% Recovery

True Value QC

RPD 3.64

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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 walved 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 Cardnal, regardless of whether such dalm 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.

Celeg D. Kee

Celey D. Keene, Lab Director/Quality Manager



TALON LPE
DAVID ADKINS
408 W. TEXAS AVE.
ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

03/24/2017

Reported:

04/07/2017 ORE IDA SWD

Project Name: Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Result

160

Result

32.0

Sampling Date:

03/23/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: S-5 0' (H700788-20)

Chloride, SM4500Cl-B

Chloride

mg/kg

Analyzed By: AC

Analyte

Reporting Limit

16.0

Analyzed 04/07/2017

Method Blank ND BS % Recovery

108

True Value QC 400 RPD

3.64

Qualifier

Sample ID: S-6 0' (H700788-21)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Chloride

Reporting Limit

16.0

Analyzed 04/07/2017

Method Blank ND BS 432

432

108

% Recovery

True Value QC 400 RPD 3.64

Qualifier

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 whistoever 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 incorred 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 & Keens

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch

accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

recovery.

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

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



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

(0.0) 0.0			ANA	ANALYSIS REQUEST
Company Name: Talon/LPE	The Color of the C	0166 10		- 1
Project Manager: D, Ad Rics	P.O.#:	: 11		
Address: 408 W. Texas Ave.	Company:	y: Talon/LPE		
City: Arresia state: NM Zip: 88210	p: 88210 Attn:			
Phone #: 575-746-8768 Fax #: 575-746-8905	6-8905 Address:	99		
Project Owner: 0 CVan	City:			
ame: OPY TOO SIN	State:	Zip:		
Droject Ocation:	Phone #:	77		
The Manage of the Color	Fax #:			
Sample Manie J. D. J. October .	MATRIX PRES	PRESERV. SAMPLING	/	
Lab I.D. Sample I.D.	CONTAINERS PROUNDWATER VASTEWATER OIL OIL OIL OIL OTHER: COD/BASE:	DATE	TPH BTEX Chlerida	
2	- # V S C	2		
	6 1	(9:32	1 ad	did 3/28
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0	1 9:34	17	3/29
1 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	C 1	1 9:36	2	3180
7 1-5 5	6 1	9:38	2	100
5-15,	6	04:40		-
7 5-20'	6 - /	05.4		2/2/2
	G -	9.52	Z 8	100 3/10
5-22	G .	45.4	I	3/27
105-23	6 1 /	7.50		4739
PLEASE NOTE: Liability and Damages. Cardinat's liability and client's exclusive renewal way client arising whether based in contract or by: Summer or the summer of the all places and in which part received by cardinal within 30 days after completion of the all	claim arising whether based in contract or tort, shall made in writing and received by	ether based in contract or tort, snau or initiated to the annual period of the applicable	e applicable	

Relinquished By: Relinquished By: Delivered By: (Circle One) Date: 3-24-17 Time: Date: Time: 00 Received By: Received By: CHECKED BY: (Initials) Phone Result: Fax Result: REMARKS:

5+0P C1- it ≤ 250 mg/kg

☐ Yes ☐ No Add'I Phone #:

Sampler - UPS - Bus - Other:



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

S:	REMARKS:		O I I Time:	0
	Fax Result:			
ult: □ Yes □ No	Phone Result:	Received By:	Relinguished By: Date:	Reling
iso.	of the above stated reasons or otherw	tinous immunion, publicate imaritapione, total or oact, or oact of whether such claim is based upon any	SAYIGO. In no event shall Catomal de labos for incommit of corresponding to incommit of the control of the cont	service. I
the applicable	inal within 30 days after completion of	emed waived unless made in writing and received by Card	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 30 days after completion of the applicable	analyses.
or the	nited to the amount paid by the client to	claim arising whether based in contract or tort, shall be lin	or EASE NOTE: Lability and Damagns. Cardinar'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 the client for the	DI EASE N
	01:11	0	4	
	111,00	6 (/	2-40,	
285	10:20	6 1	18 5-3 5"	
133	61:01	6-1	17 6-3 4	
3/30	10:16	0 -	16 5-3 3	
3/29	10:14	© -	15 5-3 2	
Q addd 3128	10:12	\ \ \ \	(5-3 1'	
	01:01	61	13 5-30	
93	([0,00	6-	12 5-25	
addled 413	85.6 21K2K	G1	11 5-24	
	DATE	# CC WAS SOIL OIL SLU OTH	170788	Hic
3T (IER:	ONTAIN OUNDV STEWA	Lab I.D. Sample I.D.	a
ride		VATER TER		
25	RV. SAMPLING	MATRIX PRESERV.	FOR LAB USE ONLY	FOR LA
		Fax #:	Sampler Name: 5, Hitchcook	Sampl
		Phone #:	Project Location:	Projec
	Zip:	State:	Project Name: Of C Ida S UD	Projec
		DEVEN City:	ect #: Project Owner: () EVBVI	Project #:
		16-8905 Address:	Phone #: 575-746-8768 Fax #: 575-746-8905	Phone
		Zip: 88210 Attn:	State: NM	City: /
	Talon/LPE	Company:	Address: 408 W. Texas Ave.	Addre
		P.O. #:	Project Manager: D, Adkins	Projec
ANALYSIS REQUEST	BILL TO		Company Name: Talon/LPE	Comp

es es

CHECKED BY:

Timet 100

mara

5+09 Clip 5 250 m3/kg

Time:

Received By:

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



101 East Marland, Hobbs, NM 88240 (K7K) 393-2326 FAX (575) 393-2476

Address: 408 W. Texas Ave. State: NM. Zer. 88210 Adms: Talon/LPE One st. 575-746-8768 Faxt: 575-746-8905 Adms: Talon/LPE Sampler Name: Or C. D.O. 5 L.O. 9 Project Owner: D.C.V.P.V. City: Faxt: 575-746-8905 Adms: Zer. Project Name: Or C. D.O. 5 L.O. 9 Project Name: D.C.V.P.V. City: Faxt: 575-746-8905 Adms: Zer. Project Owner: D.C.V.P.V. City: Faxt: 29: Project Name: D.C.V.P.V. City: Project Name: D.C.V.P.V. City: D.	(0	0/0) 333-2320 : 77 (0:0) 000 =				١		۱		,						A	Z	S		ñ	Ĕ	5					_
State: NM Zip: 88210 Atm: 246-8768 Fax #: 575-746-8905 Address: Project Owner: D CVP or City: Phone #: Phone Phone #: Phone	company Name:	Talon/LPE								0		110		1	1],		7		_		7	\dashv		\dashv		
State: NM Zip: 88210 Aftn: 46-8768 Fax #: 575-746-8905 Address: Project Owner: Down	roject Manager:							P.0	*													-					
State: NM Zip: 88210 Address: Fax #: 575-746-8905 Address: Project Owner: Devey City: Phone #: Phone #: Fax #: Fax #: Address: Zip: Phone #: Fax #: Phone #: Fax #: Date: Zip: Date: Time City: Phone #: Fax #: Date: Zip: Date: Zi	Address: 408 V	V. Texas Ave.						Con	npa	ny:	Ta	lon/LPE															
Address:	city: Artesia		Zip: 8	382	0			Attr	=														_				
Sample I.D. SAMPING PASSERV SAMPING SAM	Phone #: 575-7		46-8	390	Oi			Ado	res	is:																	
Sample I.D. Sample I.D. Sample I.D. SAMPING PAX#: FAX#: FAX# FAX#: FAX# FAX#: FAX# FAX#: FAX# FAX#	Project #:		De	5	2			City							-										_		
Sample I.D. Sample I.D. OR ANTEIX PRESERV. SAMPLING P. GOS SET SET SET SET SET SET SET SET SET SE		rc IDa						Sta	9		N	ip:															
Sample I.D. Compared to the professional of the source standards removed to the applicable of the standard of the source standards and the sour	Project Location:							Pho	one	**																	
Sample I.D. Compared to the anomal and by local interest of the profession and my other cause whatboover shall be desired watered in the anomal and any other cause whatboover shall be desired watered into anomal and my other cause whatboover shall be desired watered into anomal and my other cause whatboover shall be desired watered into anomal and the anomal and by local interest interruption, less do use, or less of profession of the application of the anomal ano	Sampler Name:	-						Fax	*					T					_								_
☐ No	odilibiei Malife.		7	1		ATR	×		PRE	SER	<	SAMPLING		1					_				_				_
☐ Yes ☐ No	Lab I.D.	Sample I.D.					SE	₹:	BASE:	OOL	₹:			slon/a													
☐ Yes ☐ No	H700788			-	-	1		ОТ		-	01	+	-	4	t	+		t	+		١	+	4	1	_		_
☐ Yes ☐ No		1-60	9	-			+	T			-	11/1/1	. w	+	+			\dagger	+			+	1				
☐ Yes ☐ No				H	1		+				-			1	+			+	4			+	_				
☐ Yes ☐ No				H		-	+			1	+			+	\dagger	1	T	\dagger	+			+					
☐ Yes ☐ No			I	+		1	+		Ι		-			+	+	\dagger		+	+			+					
☐ Yes ☐ No			T	+		+	+	\dagger	T	_	+			+	+	1		+	4			\dashv					
☐ Yes ☐ No				+			+	+			-				+												
☐ Yes ☐ No			1	+			+	+											_		T	+		+			
Yes O No				+														+	_			+		+			
Yes No				\vdash			_			7		the amount paid t	v the client for th	-	\vdash			H	L		Г	-		-		ſ	L
Yes ONO	PLEASE NOTE: Liability and analyses, All claims including	d Damages. Cardinal's liability and client's exclusive remedy for those for negligence and any other cause whatsoever shall be	any claim	arising v	whether nless m	based in	witing a	nd rece	ived b	y Card	inal w	thin 30 days after o	ompletion of the	applicable													
Date: Received By: Fax Result: Yes No	service. In no event shall Ca	rdinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by	Cardinal	regardle	ss of wh	ether su	ich clai	n is bar	ed up	on any	of the	above stated reason	ns or otherwise.	7	1	No	Add	P P C	ne #		١	١					
	Relinquished By	Date:	Rec	eive	d By								ax Result:	li.		No S	Add	'i Fax	*								

30.00

Cool Intact
Tyes Tyes
No No

CHECKED BY: SH .

Stop C1 if 5 250 ms/kg

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

Time:

Phone Result: Fax Result: REMARKS:

11-17- Bate

Received By:

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



May 05, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ORE IDA 14 FEDERAL NO. 10

Enclosed are the results of analyses for samples received by the laboratory on 04/28/17 14:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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. Keena

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: 04/28/2017

05/05/2017

Project Name: Project Number: ORE IDA 14 FEDERAL NO. 10

Project Location:

700794.218.01 ULI-14-T24S-R29E Sampling Date:

04/28/2017

Sampling Type:

Soil

Sampling Condition: Sample Received By: ** (See Notes)

Tamara Oldaker

Sample ID: S-2 6' (H701149-01)

Chloride, SM4500Cl-B

mg/kg

1170

Analyzed By: AC

Analyte

Result Reporting Limit

16.0

Reporting Limit

Reporting Limit

16.0

Analyzed

05/01/2017

Analyzed

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD 0.00

RPD

0.00

Qualifier

Sample ID: S-2 8' (H701149-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Chloride

Chloride

Chloride

Chloride

Result 864

16.0 05/01/2017 ND

Method Blank

BS 432

BS

432

% Recovery 108

True Value QC 400

Qualifier

Sample ID: S-2 10' (H701149-03)

Analyte

Analyte

Chloride, SM4500CI-B

mg/kg

Result

1120

Analyzed By: AC

Analyzed

Method Blank

ND

% Recovery

True Value QC

400

RPD

0.00

Qualifier

Sample ID: S-2 12' (H701149-04)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit 336 16.0

Analyzed 05/01/2017

05/01/2017

Method Blank ND

BS 432 % Recovery 108

108

True Value QC 400

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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,

Celeg D. Freena



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

Fax To:

(575) 745-8905

Received:

04/28/2017

Sampling Date:

04/28/2017

Reported:

05/05/2017

Sampling Type:

Soil

Project Name:

ORE IDA 14 FEDERAL NO. 10

Sampling Condition:

** (See Notes)

Project Number:

700794.218.01

Sample Received By:

Tamara Oldaker

Project Location:

ULI-14-T24S-R29E

Sample ID: S-2 14' (H701149-05)

Chloride, SM4500Cl-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	05/01/2017	ND	432	108	400	0.00	

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 whistoever 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 claims 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.

Celeg 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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Ulability 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.

Celeg D. Keene



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

4		ANALYSIS REQUEST
company Name: TaiON/LPE	PO #:	
Address: ANS W Texas Ave	Company: Talon/LPE	
	Attn:	
-746-8768 F	Address:	
3,01	City:	
7	State: Zip:	
_	Phone #:	
Sampler Name: 5, Hitch COCK		
	PRESERV. SAMPLING	
SA BOR (C)OMP. CONTAINERS ROUNDWATER ASTEWATER DIL	LUDGE THER: CID/BASE: EE/COOL THER: Youc	
G W	04/24/17 11	
Ď		
000	1 02:11	
5-212	1 11:30 6	
14	/ (litho) /	
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 the client for the 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 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service.	ontract or tort, shall be limited to the amount paid by the client for the ling and received by Cardinal within 30 days after completion of the applicable plions, loss of use, or loss of profits incurred by client, its subsidiaries,	4
affiliates or successors arising out of or related to the performance of services hereunder by curronal, regardeds or whether successors arising out of or related to the performance of services hereunder by curronal, regardeds or whether successors arising out of or related to the performance of services hereunder by curronal, regardeds or whether successors arising out of or related to the performance of services hereunder by curronal, regardeds or whether successors arising out of or related to the performance of services hereunder by curronal, regardeds or whether successors arising out of or related to the performance of services hereunder by curronal, regardeds or whether successors arising out of or related to the performance of services hereunder by curronal, regardeds or whether successors arising out of or related to the performance of services hereunder by curronal, regarded by the performance of services hereunder by curronal, regarded by the performance of services hereunder by curronal, regarded by the performance of services here are successors.	1.5	Yes □ No
Time:	0	Yes
Date: 38-//7 Received	CHECKED BY:	
	-	
Sampler - UPS - Bus - Other:	No To A7S	



May 23, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ORE IDA 14 FEDERAL NO. 10

Enclosed are the results of analyses for samples received by the laboratory on 05/22/17 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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. 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: 05/22/2017

05/23/2017

Project Name:

ORE IDA 14 FEDERAL NO. 10

Project Number:

700794.218.01

Project Location:

NOT GIVEN

Sampling Date:

Sampling Type:

05/16/2017

Soil

** (See Notes)

Sampling Condition: Sample Received By:

Jodi Henson

Sample ID: S-1 30' (H701360-01)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte

Result Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

RPD 0.00 Qualifier

Chloride

32.0

16.0

05/22/2017

ND

BS 416

104

400

Sample ID: S-3 38' (H701360-02)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Reporting Limit Analyte Result 32.0 16.0

Analyzed

Method Blank ND

BS

% Recovery 104

True Value QC 400

Qualifier

Chloride

05/22/2017

416

RPD 0.00

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,

Celeg & treens



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

PLEASE NOTE: Ulability 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 whistoever 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 incincinged 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. Keena



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

Company Name: Talon/LPE	Talon/LPE						- 1						0		BILL 70			ANA	ANALYSIS	REQUEST	EST		
Project Manager	Project Manager: S. Hitchcock									Q.	P.O. #:	77		ı			\dashv	-		\dashv	1	_	
Address: 408	Address: 408 W. Texas Ave.									ဂ္ဂ	Company:	an	۱ ۲	냈	Talon/LPE	Ш							
city: Artesia		State: NM Zip: 88210	Ď,	88	21	0				Attn:	7												
Phone #: 575-746-8768	746-8768	Fax #: 575-746-8905	6	89	05					ρA	Address:	SS						me					-19-5
Project#: 700794.218.01	94.218.01	Project Owner: Devon)ev	9						City:	Y:												
Project Name: O	Project Name: Ore Ida 14 Fed #10									Sta	State:			Z	Zip:								
Project Location:										Ph	Phone #:	#											
Sampler Name: K. Wilson	<. Wilson									Fa	Fax #									_			
FOR LAB USE ONLY			\dashv			Z	MATRIX	쯨	ı		PRESERV.	ES	띩	4	SAMPLING	ရ	5						
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP. # CONTAINERS	GROUNDWATER		WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID/BASE:	ICE / COOL	OTHER:		DATE	TIME	CHIORide				<u> </u>		
	S-1 30'			_			-	-							5/16/17	2:00	X			-	7		
2	S-3 38'	Q	<u>ц</u> 2		-	~	X	-					X	S	X 5/16/17	6:20	X						
							-																
			+	+	-	-	-	-						1									
			+	+	+	+	+	+									+			+			
			+	+	+	+	+	+	_				T	_			-	H		-	T		-
			+	+	+	+	-	+	_								$\frac{1}{1}$			-	T		
			-	_	_	-	-		_					_						+	+		
PLEASE NOTE: Liability and analyses. All claims including	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 the client for the annual p	nt's exclusive remedy for any cl ause whatsoever shall be deem	aim an	ived u	wheth	er bas	in w	nting ont	and c	ecen	ed sha	Co B	mite	Within	he amount paid b	y the client for the ompletion of the	applicable	\mathbf{f}		-	-	-	-
service. In no event shall Card	service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries,	quental damages, including with	out lim	itation	n, bus	ness	interr	olldu	ns, io	ss of	ESO.	or los	0	profits	s incurred by clier	nt, its subsidiarie	ø						

Relinquished By:

Sampler - UPS - Bus - Other: #75

23.70

Sample Condition
Cool Intact
Yes Ares
No No

CHECKED BY:

RUSH

Delivered By: (Circle One)

Date: Time:

Received By:

eived By:

Phone Result: Fax Result: REMARKS:

☐ Yes☐ Yes

□ No

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

Relinquished By:



June 19, 2017

SHELDON HITCHCOCK

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: ORE IDA 14 FEDERAL NO. 10

Enclosed are the results of analyses for samples received by the laboratory on 06/16/17 12:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited 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:

06/16/2017

Sampling Date:

06/15/2017

Reported:

Sampling Type:

BS

400

Soil

Project Name:

06/19/2017

Sampling Condition:

Cool & Intact

Project Number:

700794.218.01

Project Location:

NOT GIVEN

Sample Received By:

Tamara Oldaker

Sample ID: S-7 0.5 CONFIRM (H701569-01)

mg/kg

mg/kg

96.7%

34.7-157

464

Analyzed By: AC

Analyzed By: MS

Analyte

Chloride

BTEX 8021B

Result Reporting Limit

16.0

ORE IDA 14 FEDERAL NO. 10

Analyzed 06/16/2017 Method Blank ND

% Recovery

100

True Value QC 400

RPD 3.92 Qualifier

Sample ID: S-7 1' (H701569-02)

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Benzene*	<0.050	0.050	06/16/2017	ND	2.03	102	2.00	1.49			
Toluene*	<0.050	0.050	06/16/2017	ND	1.95	97.5	2.00	0.585			
Ethylbenzene*	<0.050	0.050	06/16/2017	ND	2.00	100	2.00	1.60			
Total Xylenes*	<0.150	0.150	06/16/2017	ND	5.41	90.2	6.00	1.67			
Total BTEX	<0.300	0.300	06/16/2017	ND							
Surrogate: 4-Bromofluorobenzene (PIL	104 9	6 72-148									
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	336	16.0	06/16/2017	ND	400	100	400	3.92			
TPH 8015M	mg/	kg	Analyze	d By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	overy True Value QC RPD		Qualifier		
GRO C6-C10	<10.0	10.0	06/16/2017	ND	184	91.8	200	2.50			
DRO >C10-C28	<10.0	10.0	06/16/2017	ND	180	90.2	200	2.35			
Surrogate: 1-Chlorooctane	108 9	% 28.3-16	4								

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

*=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 daim 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.

Celeg Ditiene



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

Fax To:

(575) 745-8905

Received: Reported: 06/16/2017

06/19/2017

ORE IDA 14 FEDERAL NO. 10

Project Number: Project Location:

Project Name:

700794.218.01 NOT GIVEN

Sampling Date:

Sampling Type:

Soil

Cool & Intact

Sampling Condition: Sample Received By:

06/15/2017

Tamara Oldaker

Sample ID: S-8 (H701569-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result

Result

336

Reporting Limit Analyzed Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

Chloride

576

16.0 06/16/2017 ND

BS 400

BS

400

100

400

3.92

Sample ID: S-9 (H701569-04)

Analyte

Chloride, SM4500Cl-B

mg/kg

Reporting Limit

16.0

Analyzed By: AC

Analyzed

06/16/2017

Method Blank

% Recovery 100

True Value QC 400

RPD

3.92

Qualifier

Sample ID: S-10 (H701569-05)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AC

Analyte Result Reporting Limit Analyzed 960 16.0 06/16/2017

Method Blank ND

ND

BS 400 % Recovery 100

True Value QC 400

RPD 3.92 Qualifier

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. 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.

Celeg & Freena

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Uability 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 whistoever 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 claims 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 approved of Cardinal Laboratories.

Celey D. Keine



1 gol and ANALYSIS RE

Delivered By: (Circle One)	Relinquished by:		Relinguished By: Date: Received By:	analyses, All clothes including those for negligenes and any other cause whickspering the desired walved interestinates in which and severe by the contract of the production of the consequential demands, including without limbility buildess interpretare, less of the original product pr	PLEASE NOTE: Linkilly and Damagner, Candinal's fishilly and clients exclusive raturely for any client which chart in condeat or rart, shall be limited to the amount gald by the client for the			25-10	25.9	8-51	25-7 // / 6	CONTROL OF THE PARTY OF THE PAR	CON	ITAINE	-	84111	Semmier Name:	END I	me: Nec That 14	103	-746-8768		V. Texas Ave.	2	Company Name: Talon/LPE	(575) 393-2326 FAX (575) 393-2476	101 East Warland, Hobbs, NM 88240
Cool Intact (Initials)	more that we to	NEW YORK	ed By: Fax Result: Fax Result:	liginos pinado il Vining ana pecapera y Camanas mala como anterior de polario. De estabilitatios on, junifices inderpidente, lasse di topo, er lane de pindita interior de y client, los estabilitatios ess of whether auch claim is based upon any of the above stated trassins of citizentes.	whether based in contract or tork shall be limited to the amount paid by the client for the			1 6/15/17	(1/c/l9)	11/21/0	1/2/2	11	WAST SOIL. OIL. SELUD OTHE ACID/ OTHE DATE, TIME	R: BASE: COOL R:	ER	MATRIX PRESERV. SAMPLING	Fax朱	Phone #:	State: Zip:	City:	05 Address:	210 Attn:	Company: Talon/LPE	P.O. 标			٠
	WSD.		口 Yes 口 No Addil Fax崇		. politable								(TT)	PH CLAH	lor				と下上	<u> </u>	- 6	3				ANALYSIS RECHEST	

Cool Intact
Yes Yes

Sampler - UPS - Bus - Other: