Received by OCD: 12/6/2022 1:19:04 PM Form C-141 State of New Mexico

Page 6

Oil Conservation Division

	Page 1 of	46
Incident ID	nab1523931622	
District RP		
Facility ID		
Application ID		

Closure

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

<u>Closure Report Attachment Checklist</u> : Each of the following items must be included in the closure report.
A scaled site and sampling diagram as described in 19.15.29.11 NMAC
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
Description of remediation activities
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.
Printed Name: Dale Woodall Title: Env. Professional
Signature: Dals Woodall Date: 12/06/2022
email: <u>dale.woodall@dvn.com</u> Telephone: <u>575-748-1838</u>
OCD Only
OCD Only Received by: Jocelyn Harimon Date: 12/06/2022
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.
Closure Approved by: Hall Date: Date:DAte:DAte:
Printed Name: Brittany Hall Title: Environmental Specialist



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

Received by OCD: 12/6/2022 1:19:04 PM

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.

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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.

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Laboratory Results

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		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	1	5200*			
S-3	3		4800*			
S-3	4		4000*			
S-3	5		2840*			
S-4	0		160*		Stat!177	
S-5	0		160*			
S-6	0		32*		34) -	

March 23, 2014 Hand Auger Sampling

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

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*

May 16, 2017 Geoprobe Delineation

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*		والكرابين وملواة

(--) Analyte Not Tested

(*) Laboratory Chloride Confirmation

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

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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.

Received by OCD: 12/6/2022 1:19:04 PM

Received by OCD: 12/6/2022 1:19:04 PM

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

Site Plan
Groundwater Data
Initial C-141(s)
Final C-141(s)
Laboratory Results

APPENDIX I SITE PLAN

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APPENDIX II GROUNDWATER DATA

Released to Imaging: 1/4/2023 9:08:44 AM

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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)							2=NE (st to lar	3=SW 4=SP gest) (N	E) IAD83 UTM in me	eters)	(In feet)	
POD Number	POD Sub- Code basin Co	ounty		Q 16		Sec .	Tws	Rng	х	Y	Distance	and the second s		Water Column
C 02109		ED						30E	602130	3563412 🌍	3375			-20
C 02108	1	ED		1	3	08	24S	30E	602702	3566487* 🌍	3994	200	186	14
										Avera	ge Depth to	Water:	168	feet
											Minimum	Depth:	150	feet
											Maximum	Depth:	186	feet
Record Count: 2	and only and and and had been a	1490 - Januari James						-	and pair and the local land in	nd have deal and pill have have have have	and and and have been been			
Basin/County Search														
County: Eddy														
UTMNAD83 Radius So	earch (in meters	5):												
Easting (X): 59906	7		No	rthi	ng	(Y):	356	64830		Radius	: 4000			

*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.

APPENDIX III INITIAL C-141(s)

Page 14 of 46	Name of Co Address 64	Artesia, NM s Road, Aztec cis Dr., Santa 52393 52394 5 5 5 5 5 5 5 5 7 5 7 5 7 5 7 7 7 7 7	88210 c, NM 87410 a Fe, NM 87505 <u>3/Lo 2.2.</u> <u>evon Energy</u> <u>Rivers Hwy</u> la 14 Fed 10	Rela	Energy Min Oil C 1220 Sa ease Notific ion <i>Q137</i> NM 88220 Mineral C	vation Div st. Franc e, NM 875 n and Co OPERAT Contact D Telephone I Facility Typ	ico I Resources Vision is Dr. 05 orrective A FOR aniel Suniga No. 575-390-5 be Oil	ARTESI AUG Sub REC	CEIVED		Revised A ate Dist ith 19.13	Form C-141 August 8, 2011 rict Office in 5.29 NMAC.		
	Unit Letter I	Section 14	Township 24S	Range 29E	Feet from the 1980		h/South LineFeet from theEast/West LineCountySouth660EastEddy							
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					NAT	URE	OF RELI	~						
	Type of Rele						Volume of	······································		Volume I 60 bbls	Recovered			
	Produced Wa Source of Re	elease	-				85 bbls Date and I	lour of Occurre		Hour of Discovery				
	Pump malfun Was Immedi	nction	Civer?			1 - 11 - 1		@ 10:41 PM			5@10:41P			
				Yes 🗌] No 🔲 Noi Ro	equired	OCD							
	By Whom? David Simmo	ons .					Date and Hour August 21, 2015 @ 11:26 PM August 21, 2015 @ 11:31 PM							
	Was a Wate	rcourse Re	ached?	Yes 🗵	No		If YES, Volume Impacting the Watercourse							
	If a Waterco	ourse was I	mpacted, Des	scribe Ful	ly.*		_J,,			<u> </u>				
	Lease operate containment. recover 60 bl	or arrived at The pump bls of produ	was reset and ced water and and Cleanu	discovere within a r oil.	d that the water ta ninute the tank sto Taken.*	opped fr	om over flow	ing. Black River	Truckin	ıg was calle	d out and th	ey were	able to	
		-		·	vere able to recove					_				
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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**

NM OIL CONSERVATION

ARTESIA DISTRICT FEB 2 2 2017

Form C-141 Revised August 8, 2011

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

State of New Mexico

Energy Minerals and Natural Resources

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

1220 S. St. Francis Dr., Santa Fe, NM 87505 **Release Notification and Corrective Action** 5246718 **OPERATOR** Initial Report Final Report Name of Company Devon Energy Production Contact Wesley Ryan, Production Foreman Address 6488 Seven Rivers Hwy Artesia, NM 88220 Telephone No. 575-390-5436 Facility Name Ore Ida 14 Federal 10 Facility Type SWD Surface Owner Federal Mineral Owner Federal API No. 30-015-29290 LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line Range Feet from the East/West Line County: I 14 24S 29E 1780 **FSL** 860 FEL Eddy Latitude: 32.2152138 Longitude: -103.9494476 NATURE OF RELEASE **Type of Release** Volume of Release **Volume Recovered Produced Water 123 BBLS 120 BBLS** Source of Release **Date and Hour of Occurrence Date and Hour of Discovery** Gun Barrel 2-13-2017 @ 2:30 pm 2-13-2017 @ 2:30 pm Was Immediate Notice Given? If YES, To Whom? Yes No Not Required **BLM- Shelly Tucker OCD-Mike Bratcher** By Whom? **Date and Hour** BLM- Shelly Tucker-2-14-2017 @6:30AM Wesley Ryan, Production Foreman OCD-Mike Bratcher-2-14-2017 @8:04AM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse 57 M. were immediately turned off to prevent further release. The local fire depart was called to ensure the fire was extinguished. The facility did have lightning protection installed on it. **Describe Area Affected and Cleanup Action Taken.*** 123 BBLS of produced water were released when lighting struck the SWD, causing the water tanks to release fluid. Vacuum trucks were dispatched and recovered 120 BBLS of produced water. A remediation contractor will be contacted to complete remediation activities. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

2117 Expiration Date: N/A
21/17 Expiration Data: N/A
Expiration Date.
oval:
u attached Attached
2RP-4123
ł

L Yes 🖾 No	N/A	
If a Watercourse was Impacted, Describe Fully.* N/ A		
- · ·		
Describe Cause of Problem and Remedial Action Taken.*		
The SWD was struck by lightning resulting in a fire and a release o	of 123 BBLS of produce	d water. The valves were shut and nower lines to the facility

age 15 of 46

APPENDIX IV FINAL C-141(s)

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Form C-141 Revised April 3, 2017

Oil Conservation Division

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

District IV 1220 S. St. Fran	cis Dr., Sant	a Fe, NM 87505	5			h St. Franc e, NM 875						
			Rele	ease Notific	catio	n and Co	orrective A	ction				
Address 648	38 Seven I	evon Energy Rivers Hwy. a 14 Federal	Artesia,			OPERATOR Initial Report Final Rep Contact Mike Shoemaker Telephone No. 575-746-5566 Facility Type SWD						
Surface Ow				Mineral C)wner			API No). 30-015-2	9290		
- Surface Off						N OF REI	FASE					
Unit Letter I	Section 14	Township 24S	Range 29E	Feet from the 1780	r	n/South Line South	Feet from the 860	East/West Line East	County Eddy			
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				NAT	URF	OF REL				01.1.1		
Type of Rele Source of Re	lease Trans	fer Pump				Date and F 8/21/2015	Release 85bbls lour of Occurrenc @ 10:41 pm	e Date and	Recovered 6 Hour of Dis 5 @ 10:41 p	covery		
Was Immedi	ate Notice (Yes [] No 🔲 Not R	equired	If YES, To BLM, OCI						
By Whom? I Was a Water		nons				Date and H	Iour August 21, 2 Dume Impacting t	the Watercourse.				
Describe Are The release v guidelines. U	a Affected vas contain pon NMO	and Cleanup ed to the well	Action Ta pad. The of confirm	facility infrastruct ation sample resu	ure wa	s removed. Re	mediation activiti	in the battery.	t in accordar the surroun	ice with ding lo	n NMOCD cation. A	
regulations a public health should their or the enviro	Il operators or the envi- operations I nment. In a	are required to a contract the former to the	o report a acceptan adequatel DCD acce	nd/or file certain a ce of a C-141 rep y investigate and a	release ort by t remedia	notifications a he NMOCD m ate contaminat	nd perform correct arked as "Final R ion that pose a thr	inderstand that pur ctive actions for re teport" does not re reat to ground wate responsibility for o	leases which lieve the ope er, surface w	may e rator o ater, hu	ndanger f liability ıman health	
							OIL CON	SERVATION	DIVISI	<u>DN</u>		
Signature:						Approved by	Environmental S	Specialist:				
Printed Nam						A		P	Data			
Title: EHS R E-mail Addr		ve Shoemaker@d	vn.com			Approval Da Conditions o		Expiration	Date:	1		
Date: 7/11/2	017		Phone:	575-746-5566								
		neets If Nece	ssary						2RP-3	3222		
Date: 7/11/2 * Attach Ado												

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr.

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

Address 6488 Seven Rivers Hwy. Artesia, NM 88210 Facility Name Ore Ida 14 Federal #10 Surface Owner BLM Mineral Owner I LOCATIO Unit Letter Section Township Range Feet from the North I 14 24S 29E 1780 North	OPERA Contact Mil Telephone I Facility Typ Federal N OF RE Volume of Date and F 2/13/2017 If YES, TC BLM-Shel OCD-Mik OCD-Mik	ror ce Shoemaker No. 575-746-550 be SWD LEASE Feet from the 860 03.9494476 EASE Frelease 123bbls Hour of Occurrence @ 2:30 pm by Whom? ly Tucker e Bratcher	Initia 56 API No East/West Line East NAD83 Volume H Se Date and 2/13/17 (7 (2) 6:30 am 7 (2) 6:30 am 7 (2) 6:30 am	al Report 0. 30-015-2 County Eddy Recovered 1 Hour of Dis @ 2:30 pm	20bbls
Address 6488 Seven Rivers Hwy. Artesia, NM 88210 Facility Name Ore Ida 14 Federal #10 Surface Owner BLM Mineral Owner I Unit Letter Section 1 14 24S 29E 1780 North Latitude_32.2152138 Lo NATURE NATURE Type of Release Produced Water Not Required Source of Release Lightning strike Yes Not Required By Whom? Wesley Ryan, Production Foreman Was a Watercourse Reached? Not Required	Contact Mil Telephone N Facility Typ Federal N OF REJ /South Line South mgitude1(OF REL Volume of Date and F 2/13/2017 If YES, To BLM-Shel OCD-Mike OCD-Mike	ke Shoemaker No. 575-746-550 be SWD LEASE Feet from the 860 03.9494476 EASE FRelease 123bbls Hour of Occurrence @ 2:30 pm be Whom? ly Tucker e Bratcher Hour ly Tucker 2/14/17 e Bratcher 2/14/17	56 API No East/West Line East NAD83 Volume H Date and 2/13/17 (7 (@ 6:30 am 7 (@ 6:30 am 7 (@ 8:04 am	County Eddy Recovered 1 Hour of Dis	9290 20bbls
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Type of Release Produced Water Source of Release Lightning strike Was Immediate Notice Given? Xes No Not Required By Whom? Wesley Ryan, Production Foreman Was a Watercourse Reached?	Volume of Date and F 2/13/2017 If YES, Tc BLM-Shel OCD-Mik Date and F BLM-Shel OCD-Mik	Release 123bbls Hour of Occurrence @ 2:30 pm o Whom? Ily Tucker e Bratcher Hour Ily Tucker 2/14/17 e Bratcher 2/14/17	2 Date and 2/13/17 @ 7 @ 6:30 am 7 @ 8:04 am	Hour of Dis	
Source of Release Lightning strike Was Immediate Notice Given? Xes No Not Required By Whom? Wesley Ryan, Production Foreman Was a Watercourse Reached?	Date and F 2/13/2017 If YES, Tc BLM-Shel OCD-Mik Date and F BLM-Shel OCD-Mik	Hour of Occurrence @ 2:30 pm > Whom? Ily Tucker e Bratcher Hour Ily Tucker 2/14/17 e Bratcher 2/14/17	2 Date and 2/13/17 @ 7 @ 6:30 am 7 @ 8:04 am	Hour of Dis	
Was a Watercourse Reached?	Date and H BLM-Shel OCD-Mik	Hour Ily Tucker 2/14/17 e Bratcher 2/14/17	7 @ 8:04 am		
The SWD was struck by lightning resulting in a fire and a release of 123 prevent the release of additional fluid. The local fire department responde standing fluid. They were able to recover approximately 120bbls of fluid. Describe Area Affected and Cleanup Action Taken.*	ed and extingu. was removed	uished the fire. V	acuum trucks were	dispatched	to the site to recov
were below NMOCD RRAL's. The impacted area on the well pad was very I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release re- public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remedia or the environment. In addition, NMOCD acceptance of a C-141 report of federal, state, or local laws and/or regulations.	ertically/horiz the best of my notifications a ne NMOCD n te contaminat	when the operator of the operator operat	and remediated po- inderstand that pur- ctive actions for rel ceport" does not rel reat to ground wate responsibility for c	er NMOCD suant to NM leases which lieve the ope er, surface wa compliance w	guidelines. IOCD rules and a may endanger erator of liability ater, human health with any other
		<u>OIL CON</u>	SERVATION	DIVISIO	<u>JN</u>
Signature: Printed Name: Mike Shoemaker	Approved by	v Environmental S	Specialist:		
Title: EHS Representative	Approval Da	ite:	Expiration	Date:	
E-mail Address: Mike.Shoemaker@dvn.com	Conditions o			Attachec	d 🔲
Date: 7/11/2017 Phone: 575-746-5566				400	4100
* Attach Additional Sheets If Necessary				2RP-4	4123

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/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

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	Qualifie
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 (PID	97.8 %	6 72-148							
Chloride, SM4500Cl-B	Chloride, SM4500Cl-B mg/kg		Analyzed 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	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	24.2	10.0	03/28/2017	ND	193	96.5	200	2.06	
Surrogate: 1-Chlorooctane	81.4%	6 25.1-158	}						

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

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		
M										

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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 2' (H700788-03)

Chloride, SM4500Cl-B	mg	/kg	Analyzed	i By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1070	16.0	03/30/2017	ND	416	104	400	0.00	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	04/03/2017	ND	432	108	400	3.64	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	512	16.0	04/05/2017	ND	448	112	400	3.51	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	04/07/2017	ND	432	108	400	3.64	

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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	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-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							
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14000	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	86.4	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	86.8	% 26.8-17	0						

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	

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Celey D.Ke

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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-2 2' (H700788-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	992	16.0	03/30/2017	ND	416	104	400	0.00	

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

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	816	16.0	04/03/2017	ND	432	108	400	3.64	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	04/05/2017	ND	448	112	400	3.51	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	04/07/2017	ND	432	108	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager

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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-3 0' (H700788-13)

BTEX 8021B	mg/l	(g	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	97.3 %	6 72-148	6						
Chloride, SM4500Cl-B	mg/l	٨g	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 %	6 25.1-15	8						
Surrogate: 1-Chlorooctadecane	82.1 9	6 26.8-17							

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	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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-3 2' (H700788-15)

Chloride, SM4500Cl-B	mg	mg/kg Analyze		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5200	16.0	03/30/2017	ND	416	104	400	0.00	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4800	16.0	04/03/2017	ND	432	108	400	3.64	

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

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	04/05/2017	ND	448	112	400	3.51	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2840	16.0	04/07/2017	ND	432	108	400	3.64	

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

Chloride, SM4500Cl-B	m	ng/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.2 Chloride	160	16.0	04/07/2017	ND	432	108	400	3.64	
Cardinal Laboratori	es							*=Accredite	ed Analyte
any other cause whatsoever sh including, without limitation, busi	amages, Cardinal's liability and client's all be deemed waived unless made ness interruptions, loss of use, or lo stated reasons or otherwise, Results relate	in writing and received by o oss of profits incurred by die	Cardinal within thirty (30) ent, its subsidiaries, affiliate) days after completion of tes or successors arising ou	f the applicable out of or relat	ole service. In no even ated to the performance	nt shall Cardinal be liable	for incidental or co	consequential damages,
00 Celles	D.Keine				-				
	ab Director/Quality Ma	nager							
Rece								Pag	ge 7 of 12

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Celey D.Ke



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-5 0' (H700788-20)

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	04/07/2017	ND	432	108	400	3.64	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/07/2017	ND	432	108	400	3.64	

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Celey D.Ke

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

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Celey D.Kee

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Sampler - UPS - Bus - Other:	(Circle One)	Date: 3-24-17 Time: /5:00	Sheldon Alar	Relinquished By: Date: R	analyses, All claims including under on insymption or onterequential damages, including without limitation, business interruptions, loss of use, or boss of profits incurred by cleint, its subsidiaries, service, in no event shall Cardinals be liable for incidential or contexquential damages, including without limitation, business interruptions, loss of use, or boss of profits incurred by cleint, its subsidiaries service, in no event shall Cardinals the liable for incidential or contexquential damages, including without limitation, business interruptions, loss of use, or boss of profits incurred by cleint, its subsidiaries services are used used upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the abount pad by the client for the PLEASE NOTE: Liability and Damages. Cardinal's lability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the abount pad by the client for the applicable	6 4-2.3	5-22		5 5-20'	1	5 6-1 4	4 5- (3) G	8 4-1 2	2 5-11 6	1 5-10' 6	Lab I.D. Sample I.D.	FOR LABUSE ONLY	Sampler Name: 5. Hitch Co Col	Project Location:	Project Name: OPC IDa SWD	Project Owner:	Phone #: 575-746-8768 Fax #: 575-746-8905	State: NM	Address: 408 W. Texas Ave.	
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		City:	Oevan	Project Owner:	Project #:
		Address:	46-8905	Phone #: 575-746-8768 Fax #: 575-746-8905	Phone #: 5
		Attn:	zip: 88210	State: NM	city: Artesia
	1LPE	company: Talon/LPE		108 W. Texas Ave.	Address: 408 W.
		P.O. #:			Project Manager:
ANALYSIS REQUEST	9	BILL TO		lame: Talon/LPE	Company Name:
				(575) 393-2326 FAX (575) 393-2476	
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Page 11 of 12

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Circle One)	eur of or related to the performance of services interest Date: Time:	les, les,			-60	Sample I.D.		Hitchcook		re IDa SUD	Project Owner:	746-8768 Fax #: 57!		 Texas Ave. 		Talon/LPE	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
J. J. Col Intact Col Intact Col Intact	Received By:	sty for any claim arsing whether based in contract or to half be deemed valved unless made in writing and roc ncluding without limitation, business interruptions, loss ncluding without limitation.			6-1	(G)RAB OR (C)OM # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	MATRIX				mer: Devou	Fax #: 575-746-8905	VI zip: 88210				38240 476
dition CHECKED BY:		ract or tort, shall be limited to the amount paid and received by Cardinal within 30 days after ns, loss of use, or bes of profits incurred by d ins is based upon any of the above statled rea			7)(2)(2)	OTHER : ACID/BASE: ICE / COOL OTHER :	PRESERV, SAMPLING	1	Phone #:	State: Zip:	City:	Address:	Attn:	company: Talon/LPE	P.O. #:	BILL TO	
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Laboratories



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.

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,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5



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 6' (H701149-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1170	16.0	05/01/2017	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	05/01/2017	ND	432	108	400	0.00	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	05/01/2017	ND	432	108	400	0.00	

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

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	05/01/2017	ND	432	108	400	0.00	

Cardinal Laboratories

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 whatscever 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 lable 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 based upon any of the above. This report shall obte except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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	

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Released to Imaging: 1/4/2023 9:08:44 AM

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Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



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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*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 5

101 East Marland, Hobbs, NM 88240		
Company Name: Talon/LPE	3/1/10	ANALYSIS REQUEST
S.	P.O. #:	
Address: 408 W. Texas Ave.	company: Talon/LPE	
	210 Attn:	
Phone #: 575-746-8768 Fax #: 575-746-8905	05 Address:	
700744 (2(9,0) Project Owner: 0	CVON City:	
	State: Zip:	
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 5 of 5





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/ga/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 4



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

Received:	05/22/2017	Sampling Date:	05/16/2017
Reported:	05/23/2017	Sampling Type:	Soil
Project Name:	ORE IDA 14 FEDERAL NO. 10	Sampling Condition:	** (See Notes)
Project Number:	700794.218.01	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/22/2017	ND	416	104	400	0.00	

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/22/2017	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celey D. Keen

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 4



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 $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report $% \left({{{\left({{{\left({{{\left({{{c}}} \right)}} \right)}_{i}} \right)}_{i}}}} \right)$

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE BILL TO Project Manager: S. Hitchcock P.O. #: Address: 408 W. Texas Ave. Company: Talon/LPE City: Artesia State: NM Zip: 88210 Attn: Phone #: 575-746-8768 Fax #: 575-746-8905 Address: Project #: 700794.218.01 Project Owner: Devon City: Project Name: Ore Ida 14 Fed #10 State: Zip: State: Zip:	P.o. #: P.o. #: State: NM Zip: 88210 Attn: Fax #: 575-746-8905 Address: Address: Project Owner: Devon City: State:
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Received by OCD: 12/6/2022 1:19:04 PM



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_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 5



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:	06/19/2017	Sampling Type:	Soil
Project Name:	ORE IDA 14 FEDERAL NO. 10	Sampling Condition:	Cool & Intact
Project Number:	700794.218.01	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

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

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/16/2017	ND	400	100	400	3.92	

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 %	% 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	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 %	28.3-164	4						
Surrogate: 1-Chlorooctadecane	96.7 9	% 34.7-15	7						

Cardinal Laboratories

Received by OCD: 12/6/2022 1:19:04 PM

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Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



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:	06/19/2017	Sampling Type:	Soil
Project Name:	ORE IDA 14 FEDERAL NO. 10	Sampling Condition:	Cool & Intact
Project Number:	700794.218.01	Sample Received By:	Tamara Oldaker
Project Location:	NOT GIVEN		

Sample ID: S-8 (H701569-03)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	576	16.0	06/16/2017	ND	400	100	400	3.92	

Sample ID: S-9 (H701569-04)

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	

Sample ID: S-10 (H701569-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	06/16/2017	ND	400	100	400	3.92	

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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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changes to (575) 393-2326	Initials	BY: WINA SULLAN ANSIN	Fax Result: I Yes I No Add'I Fax #: REMARKS:	Vac II Na	as in contract must be bindled by the contract of the second seco			16/15/17		1 6/14/17 11:00em / / /		OIL SLUDGE OTHER: ACID/BASE ICE/COOL OTHER: DA IT BIEX Chlo TPH TCLP Flast PH		Fax*	R.	Shate: Zip:		Address:	Attn:	Company: Talon/LPE	P.O. 恭		there look (CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	

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

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District IV

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

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

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	164508
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created Condition Condition By Date bhall 1/4/2023 None

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Action 164508