

November 7, 2014

**AMARILLO** 

Mr. Mike Bratcher **NMOCD District 2** 811 S. 1<sup>st</sup> Street Artesia, NM 88210

921 North Bivins Amarillo, Texas 79107 Phone 806.467.0607 Fax 806.467.0622

Subject:

Soil Assessment and Remediation Work Plan

Oxy USA INC

Hubble 28 State Com #1 API#30-015-30782

ARTESIA 408 West Texas Ave. Artesia, New Mexico 88210 Phone 575.746.8768 Fax 575.746.8905

Dear Mr. Bratcher,

**HOBBS** 318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658

Oxy USA Inc. (Oxy) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Hubble 28 State Com No. 1. The incident description, soil assessment and proposed remediation activities consist of the following:

### **Incident Date**

MIDLAND 2901 State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

September 23, 2014

### **Background Information**

OKLAHOMA CITY 7700 North Hudson Avenue Suite 10 Oklahoma City, Oklahoma 73116 Phone 405.486.7030 Fax 806.467.0622

The Hubble 28 State Com No. 1 is located approximately twenty-seven (27) miles southeast of Artesia, New Mexico. The legal location for the site is Section 28, Township 19 South and Range 28 East in Eddy County, New Mexico. More Specifically the latitude and longitude for the location are 32.6334252 North and 104.186449 West. A site plan is presented in Appendix I.

SAN ANTONIO 13111 Lookout Way San Antonio, Texas 78233 Phone 210.265.8025 Fax 210.568.2191

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Berino Pajarito complex with 0 to 3 percent slopes eroded. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of loamy alluvium and eolian sands which include silty soils under lain by hard caliches. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S9-T19S-R28E. The ground water in the area is reported to be 265' below ground surface (bgs). See Appendix II for the referenced groundwater data.

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

Depth to ground water

>100'

Wellhead Protection Area

>1000'

Distance to surface water body

>1000'

**ENVIRONMENTAL CONSULTING ENGINEERING** DRILLING CONSTRUCTION

SPILL MANAGEMENT GENERAL CONTRACTING

Page 1 of 4

Toll Free: 866.742.0742 www.talonlpe.com

### **Incident Description**

On September 23, 2014 a valve was opened by livestock causing the release of 66 barrels of produced water. No fluids were recovered due to flooding. The flow path subsequently moved south across the location. The valve was closed. The area affected southeast of the load-outs encompassed an area approximately 243-feet long and 8 to 10-feet wide. The flow path left the location to the south and into the pasture approximately 75-feet long by 25-feet wide. See attached site plan in Appendix II.

### **Actions Taken**

Talon/LPE subsequently mobilized personnel to begin the site assessment and soil sampling activities for the construction of a work plan. On October 1, 2014 a grab soil sample was collected from the surface at 0-foot. The soil sample was collected from the location which is illustrated on the attached site plan. See attached site plan in Appendix I.

Further soil sampling was delayed due to excessive rain and flooding. On October 21, 2014 Talon personnel returned to the location for additional soil sampling utilizing a backhoe to depths of 12-feet.

Soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided sample containers, iced and transported to Cardinal Laboratories in Hobbs, New Mexico. The samples were tested for TPH (Total Petroleum Hydrocarbons) using EPA Method 8015M, volatile organics (BTEX) using EPA Method 8021B and analysis of Chlorides using Method SM4500CL-B. Sampling depths and laboratory analyses are presented in the following data table.

### Laboratory Results

See Appendix III for complete report of laboratory results.

October 9, 2014

Table 1

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1 Refusal	0'	< 0.300	12800	<10	<10

### Laboratory Results, cont.

October 27, 2014

Table 2

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
BG-1	0'		768		
BG-2	0,		<16		
S-1	2'		96		
	4'		432		
	6'		592		
	8'		480	par 144	<u></u>
	10'		336		
	12'		256		
S-2	0,		128		
	1'		1390		
	2'		448		
	3'		288		
	4'		112		
S-3	0'		<16		
	1,		192		
	2'		528		
	3'		448		
	4'		32		
S-4	0'		<16		
	1'		64		page 4000
	2'		48		
	3'		32		
	4'		32		

<sup>--</sup> Analyte Not Tested

For this site's ranking, New Mexico Oil Conservation District action level criterion for BTEX is 50 mg/kg, Benzene is 10 mg/kg and TPH is 5,000 mg/kg. The chloride remediation standard is considered to be 1,000 mg/kg.

### **Proposed Remedial Actions**

- The impacted area at sample location S-1 will be excavated to a depth of 1-feet deep and sample location S-2 will be excavated to a depth of 1.5-feet deep.
- All contaminated soil will be transported to Lea Land, LLC a NMOCD approved solid waste disposal facility.
- The excavated areas will be backfilled with clean caliche and contoured to match the surrounding location.
- A final report documenting all field activities and lab reports will be provided to the NMOCD Artesia Office including Form C-141.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

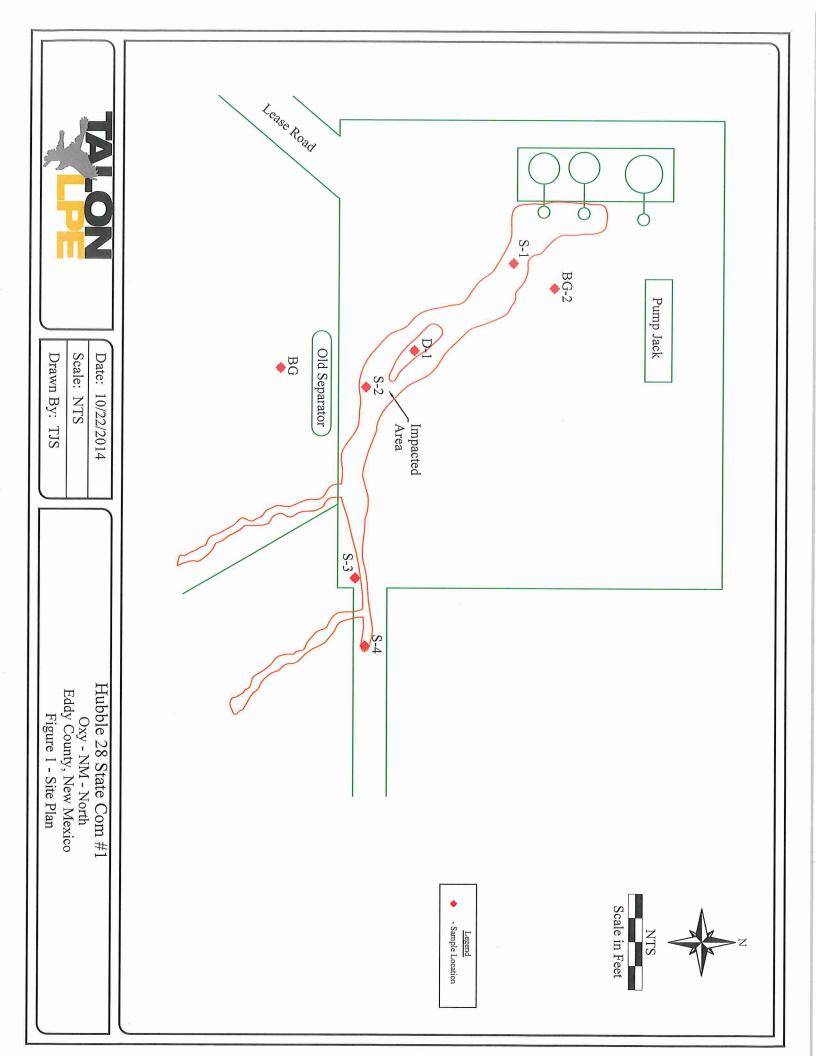
TALON/LPE

Kimberly Wilson Project Manager

David J. Adkins District Manager

W. Wilson

### APPENDIX I SITE MAP



### APPENDIX II GROUNDWATER DATA INITIAL C-141



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

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

(R=POD has been replaced, O=orphaned,

C=the file is

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

water right file.)	closed)	(qı	uart	er	s a	ire s	malle	st to larg	gest)	(NA	AD83 UTM in me	ters)	(1	n teet)		
	POD Sub-		Q (									Distance		Depth Water		
POD Number	Code basin Count	y (	64 1	6	4	Sec	Tws	Rng		X	Y	Distance	100000000000000000000000000000000000000	The second second second second		
CP 00361	ED		3	1	3	09	19S	28E	57609	)4	3615246*	4009	365	265	,	100
CP 00502	ED			1	1	18	19S	28E	57300	)1	3614478*	4491	100	91		9
CP 00836	ED			1	1	18	198	28E	57300	)1	3614478*	4491	110			
CP 00837	ED			1	1	18	198	28E	57300	)1	3614478*	4491	110			
CP 00838	ED			1	1	18	198	28E	57300	)1	3614478* 🌑	4491	110			

Average Depth to Water:

178 feet

Minimum Depth:

91 feet

Maximum Depth:

265 feet

### Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 576111

Northing (Y): 3611237

Radius: 5000

\*UTM location was derived from PLSS - see Help

<u>District I</u> 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 August 8, 2011

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.

			Rele	ease Notific	atio	n and C	orrective A	ction	ı			
						OPERA	TOR			al Report		Final Report
Name of Co	mpany: O	XY USA Li	mited Pa	artnership			Chris Jones					
Address: 10				88220			No.: <b>575-628-41</b>	21				
Facility Nar	ne: Hubble	e 28 State C	Com			Facility Ty	pe: Battery					
Surface Ow	ner: State			Mineral O	wner:				API No	.: 30-015-3	0782	,
				LOCA	TIO	N OF RE	LEASE					
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/\	West Line	County		
E	28	19S	28E	1980'	North	1	990'	West		Eddy		
			1		4252	<u>N</u> Longitu	de <u>-104.186449</u>	w				
				NAT	URE	OF REI			·			
Type of Rele							f Release: 66 bbl			Recovered: (		
Source of Re	lease: Lives	tock opened	valve			Date and 9/23/2014	Hour of Occurrence  L	ce	i .	Hour of Dis 4; 2:00 pm	cover	y
Was Immedia	ate Notice G	iven?					o Whom?		// <b>#</b> 5// <b>#</b> 01	1, 2.00 pm		
			Yes	No Not Re	quired							
By Whom?						Date and	Hour:					
Was a Water	course Reac					If YES, \	olume Impacting	the Wat	ercourse.			
			Yes 🗵	No								
If a Watercou	ırse was Imp	acted, Descr	ibe Fully.	*		- t						
				n Taken.* On S								
				e recovered due								
				uts approximat								
soil sampling				75-feet long by	25-1e	et wide. Ta	iion/LPE was con	tracted	to periorn	1 an initiai s	site as	sessment and
Describe Are	a Affected a	nd Cleanun	Action Ta	ken.* The area	affect	ed ran son	th of the load-or	ıts ann	roximate	lv 243-feet	long	and 8 to 10-
feet wide.	The flow	na Cleanup 1 nath left th	e locatio	on to the west in	nto the	e pasture :	approximately 7	75-feet	long by 2	5-feet wid	e. Ta	alon/LPE was
				nt and soil sampl		-			3 ,			
				e is true and compl								
				nd/or file certain re								
				ce of a C-141 repo investigate and re								
				otance of a C-141 i								
federal, state		•			-рол с		operator or	- vop omo		, , , , , , , , , , , , , , , , , , ,		.,
·							OIL CON	SERV	ATION	DIVISIO	ΟN	
Signature:	Chris.	Jones										
3	Mayor.					A	E		4.			
Printed Name	e: Chris Jon	ies				Approved o	y Environmental S	pecians	it.			
Title: HES S	pecialist					Approval D	ate:		Expiration	Date:		
E-mail Addre	ess: Christo	pher.Jones@	oxy.com			Conditions	of Approval:			Attached		
Date: 9/16/2	2014		Phone: 5	75-628-4121								

<sup>\*</sup> Attach Additional Sheets If Necessary

### APPENDIX III LABORATORY RESULTS



October 09, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HUBBLE 28 ST. COM

Enclosed are the results of analyses for samples received by the laboratory on 10/03/14 14:30.

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

10/03/2014

Reported:

10/09/2014

Project Name:

HUBBLE 28 ST. COM

Project Number: Project Location: NONE GIVEN NONE GIVEN Sampling Date:

10/02/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

### Sample ID: S-1 0' (H403040-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms			/( <b>*</b> /)		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/08/2014	ND	1.83	91.7	2.00	7.05	
Toluene*	<0.050	0.050	10/08/2014	ND	1.75	87.7	2.00	7.28	
Ethylbenzene*	<0.050	0.050	10/08/2014	ND	1.69	84.5	2.00	7.79	
Total Xylenes*	<0.150	0.150	10/08/2014	ND	5.04	84.1	6.00	8.18	
Total BTEX	<0.300	0.300	10/08/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	61-154							
Chloride, SM4500CI-B	mg/	kg .	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	10/08/2014	ND	416	104	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	10/07/2014	ND	176	88.2	200	4.12	
DRO >C10-C28	<10.0	10.0	10/07/2014	ND	180	90.2	200	3.18	
Surrogate: 1-Chlorooctane	96.3	% 47.2-157	·						
Surrogate: 1-Chlorooctadecane	102 9	6 52.1-176	i						

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



Bus - Other: 5 + C C C C C C C C C C C C C C C C C C	Sample Condition Cool Infact	Relinquished By:	struct. In no event shall Cardinal be liable for incidental of correctional requirements of whether such claim is based upon any or structure to a successors arising out of or related to the performance of exercises hereunder by Cardinal, regardless of whether such claim is based upon any or structure.  Received By:	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive tenedy for any dains arising wiscue and the inviting and received by Cardinal within 30 days after compression in the property of the control within any control	to contract of tot, shall b				(S-1, 0)	# C GR WA SO OIII SL O1	ONTAIN OUNDW ASTEWA	ATER TER	MATRIX	on:	ame: Hubble 28 St. com	Project Owner:	-746-8768 Fax #: 575-746-8905	state: NM zip: 88210	N Texas Ave.	Broject Manager: JAC O POKES P.O.#: OF	Tolon/I DE	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
1932336	CHECKED BY:	REMARKS:	Phone Result: Yes No Add'l Fax #:		similated to the amount paid by the client for the					Mille	TIME	BTO	SAMPLING			Zin:		DXY		P.O. # OP S60 1 3 1 8		ANALYSIS REQUEST

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



October 27, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: HUBBLE 28 ST, COM

Enclosed are the results of analyses for samples received by the laboratory on 10/23/14 13:40.

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

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

Fax To:

(575) 745-8905

Received:

10/23/2014

Reported:

10/27/2014

Project Name:

HUBBLE 28 ST. COM

Project Number: Project Location:

700608.378.01 EDDY Sampling Date:

10/21/2014

Sampling Type:

Sample Received By:

Soil

Sampling Condition:

\*\* (See Notes)

Kathy Perez

Sample ID: BG 1 0' (H403269-01)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

16.0

Reporting Limit

16.0

Analyzed By: AP

Analyte

Result Reporting Limit

768

Result

<16.0

96.0

Result

432

Analyzed

10/24/2014

Analyzed

10/24/2014

Method Blank

Method Blank

ND

BS 400

400

BS

400

% Recovery

% Recovery

100

True Value QC

RPD

Qualifier

Sample ID: BG 2 0' (H403269-02)

Chloride, SM4500CI-B

Analyte

mg/kg

Analyzed By: AP

. . .

400

3.92

**RPD** 

3.92

Qualifier

Sample ID: S-1 2' (H403269-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Result Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 10/24/2014

Analyzed

10/24/2014

Method Blank

ND

% Recovery

100

True Value QC

400

True Value QC

400

RPD 3.92

Qualifier

Sample ID: S-1 4' (H403269-04)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

400

% Recovery

True Value QC 400 RPD

3.92

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Received:

10/23/2014

Reported:

10/27/2014

Project Name:

HUBBLE 28 ST. COM

Project Number:

700608.378.01

Project Location:

**EDDY** 

Sampling Date:

10/21/2014

Sampling Type:

Soil \*\* (See Notes)

Sampling Condition: Sample Received By:

Kathy Perez

### Sample ID: S-1 6' (H403269-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	10/24/2014	ND	400	100	400	3.92	
Sample ID: S-1 8' (H403269-	06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	10/24/2014	ND	400	100	400	3.92	
Sample ID: S-1 10' (H403269	-07)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	10/24/2014	ND	400	100	400	0.00	
Sample ID: S-1 12' (H403269	-08)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	10/24/2014	ND	400	100	400	0.00	
Sample ID: S-2 0' (H403269-	09)								
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP			Ti		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	10/24/2014	ND	400	100	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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Celeg Ditreene



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

Fax To:

(575) 745-8905

Received:

10/23/2014

Reported:

10/27/2014

Project Name:

HUBBLE 28 ST. COM

Project Number: Project Location: 700608.378.01 **EDDY** 

Sampling Date:

10/21/2014

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Kathy Perez

Sample ID: S-2 1' (H403269-10)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Analyte

Result

Reporting Limit

Analyzed

Method Blank

BS

% Recovery

True Value QC 400

**RPD** 

0.00

RPD

0.00

Qualifier

Chloride

1390

Result

448

Result

288

Result

112

Result

<16.0

16.0 10/24/2014 ND

400

100

Sample ID: S-2 2' (H403269-11)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

BS

% Recovery 100

True Value QC

Qualifier

Chloride

Chloride

Reporting Limit 16.0

Analyzed 10/24/2014

ND

400

400

Sample ID: S-2 3' (H403269-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Reporting Limit Analyzed 16.0 10/24/2014

Method Blank ND

BS 400 % Recovery 100

True Value QC 400

**RPD** 

Qualifier

Sample ID: S-2 4' (H403269-13)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

% Recovery

% Recovery

100

**RPD** 

0.00

Qualifier

Chloride

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 10/24/2014 Method Blank ND

Method Blank

ND

BS 400

BS

400

100

True Value QC 400

True Value QC

400

Sample ID: S-3 0' (H403269-14)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

10/24/2014

0.00

RPD

0.00

Qualifier

Analyte Chloride

Cardinal Laboratories

\*=Accredited Analyte

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Celleg D. Keene



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

Fax To:

(575) 745-8905

Received:

10/23/2014

Reported:

10/27/2014

Project Name:

HUBBLE 28 ST. COM

Project Number: Project Location:

Analyte

Analyte

Analyte

Analyte

Analyte

700608.378.01 **EDDY** 

Sampling Date:

10/21/2014

Sampling Type:

Soil

Sampling Condition:

\*\* (See Notes)

Sample Received By:

Kathy Perez

Sample ID: S-3 1' (H403269-15)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

% Recovery

100

100

True Value QC 400

True Value QC

400

400

**RPD** 

Qualifier

Chloride

Chloride

Chloride

Result 192

Result

528

Result

448

16.0 10/24/2014

Reporting Limit

Reporting Limit

16.0

16.0

ND

ND

BS 400

400

100

0.00

Sample ID: S-3 2' (H403269-16)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

10/24/2014

Analyzed

10/24/2014

Method Blank

BS % Recovery

RPD

0.00

Qualifier

Sample ID: S-3 3' (H403269-17)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Reporting Limit

Method Blank

BS

400

% Recovery True Value QC RPD

0.00

Qualifier

Sample ID: S-3 4' (H403269-18)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

% Recovery

True Value QC

**RPD** 

Chloride

Result 32.0

Result

<16.0

Reporting Limit 16.0

Analyzed

ND

BS

Qualifier

Chloride

Reporting Limit

16.0

10/24/2014

Analyzed

10/24/2014

400

100

400

0.00

Sample ID: S-4 0' (H403269-19)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS

400

% Recovery

100

True Value QC

400

RPD

0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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Celeg to treene



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

Fax To:

(575) 745-8905

Received:

10/23/2014

Reported:

10/27/2014

Project Name:

HUBBLE 28 ST. COM

Project Number: Project Location:

Analyte

Analyte

Analyte

Analyte

700608.378.01 **EDDY** 

Sampling Date:

10/21/2014

Sampling Type:

Soil

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

Kathy Perez

Sample ID: S-4 1' (H403269-20)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

Method Blank

BS % Recovery True Value QC

RPD

Qualifier

Chloride

Chloride

Chloride

Chloride

64.0

Result

48.0

Result

32,0

Result

32.0

Result

16.0 10/24/2014

Reporting Limit

Reporting Limit

16.0

Reporting Limit

16.0

Reporting Limit

16.0

ND

400

400

0.00

Sample ID: S-4 2' (H403269-21)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

10/24/2014

Analyzed

10/24/2014

Analyzed

10/24/2014

Method Blank

ND

ND

BS

400

% Recovery

100

100

100

True Value QC

400

**RPD** 

0.00

Qualifier

Sample ID: S-4 3' (H403269-22)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

400

True Value QC % Recovery

RPD

0.00

Qualifier

Sample ID: S-4 4' (H403269-23)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

ND

BS 400 % Recovery 100

True Value QC 400

400

RPD 0.00

Qualifier

Cardinal Laboratories

\*=Accredited Analyte

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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 SM4500CI-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



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

	,, ,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
Company Name:	Talon/LPE		2117		A REGION
Project Manager:			P.O. #: CP 56093498		
Address: 408 W.	V. Texas Ave.		Company: OZU		
city: Artesia	State: NM zip: 88210	0	Attn: Chels Johns		
Phone #: 575-746-8768	746-8768 Fax #: 575-746-8905		Address:	3	
Project #: 266 608	CB 328 6   Project Owner: Cyty	2	City:	ke e	
Project Name:   466/-	apple 28 State Compathers	0	State: Zip:	'A	
Project Location:	ly .	7	Phone #:	00	
Sampler Name:	G. Razza		Fax#:	7/	
		MATRIX	PRESERV. SAMPLING	- /	
Lab I.D.	Sample I.D.	OR (C)OMP. AINERS DWATER WATER	SE: OOL	tal (	
1000 F		# CON	OTHER ACID/E ICE / C OTHER DATE TIME	1e	
)	3670'		1 6-21-14 12.53		
٢	4C 2 P				
w	201	1   1	12.22		
7	3-1-4	/	1 S 12:31		
vî Vî	3,16		1 < 1236		
6	2-1 8		12.80		
١,	5-1 10		34.21	7	
00	3-112		1000		
9	0,		1.00		
Ĉ	>2 1 T	Colin whether based in contract	or both shall be limited to the amount paid by the client to	or the	
PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Car	ent's exclusive remedy for cause whatsoever shall be quental damages, includir of sandres bersinder by	rly claim arising whether based in contract teemed walved unless made in writing and without limitation, business interruptions, I arring regardless of whether such claim I	insigher based in contract cyclert, small be immissed to the amount para by the view in which less made in writing and (secal-bed by Cardinal within 30 days after completion of the business interruptions, legal of uses of loss of profits incurred by client, its subsidiant business interruptions, legal of uses of loss of sports added reasons or otherwise.	plicable	
Relinquished By:	out of or related to the performance of services nersunger by	Received By:	Phone Result:	ult:	Add'l Phone #: Add'l Fax #:
1	Time:	and the	REMARKS		
Relinquished By	Date:	Received By:	0		

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

Yes 4 Yes
No No

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

34.85

CHECKED BY: (Initials)



Company Name: Talon/LPE Phone #: 575-746-8768 city: Artesia Project Manager: Project Name: 144667 Project #: 100 60837861 Project Owner: Project Location: Address: 408 W. Texas Ave. Redifiquished By Relinquished By: FOR LAB USE ONLY ampler Name: Sampler - UPS - Bus - Other: PLASE NOTE: Liability and Darrages. Central's liability and client's exclusive remedy for any datin anality whether based in postract or tary, abail to limited to the amount paid by the centrum under the applicable of the applic Lab I.D. Delivered By: (Circle One) F S 6 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 3:3 Sample I.D. 28 0 4 W State Fax #: 575-746-8905 State: NM Zip: 88210 Time: UD Time: 28. 4°C COM (G)RAB OR (C)OMP. Received By: BAFFER # CONTAINERS GROUNDWATER Sample Condition
Cool Intact
Yes Yes WASTEWATER MATRIX SOIL OIL SLUDGE P.O. #: 0 PSG-098498 State: Attn: (4 / S Fax #: City: Address: Company: OTHER: Phone #: PRESERV ACID/BASE: CHECKED BY: (Initials) ICE / COOL OTHER: Zip: 10.21-19 1:05 DATE SAMPLING Johns 2/22 / 1:10 23.5 153 TIME 57 157 156 ☐ Yes ☐ No ANALYSIS REQUEST



101 East	101 East Marland, Hobbs, NM 88240		· ·
(575) 393	(575) 393-2326 FAX (575) 393-2476		ANALYSIS REQUEST
Company Name: Talon/LPE	/LPE	8 472 52 5 4 4 5 5 6 4 4 5 6 6 6 6 6 6 6 6 6 6 6	
Project Manager:			
?	1	Company: Oky	
		Attn: Chils Joseph	
Phone #: 575-746-8768	77	Address:	
Project #:7 & Con ?	378 c/ Project Owner:	City:	
1.11	166	State: Zip:	
Project Name: Pudbit Co	THE COST	Phone #:	
3/5	25-26		
Sampler Name:		MATRIX PRESERV. SAMPLING	
FOR LAB USE ONLY			
Lab I.D.	RAB OR (C)OM ONTAINERS OUNDWATER ASTEWATER	UDGE THER: CID/BASE: E / COOL THER:	
0 0	0	1 (00)	
ļ	200	1 16-21-18 212B	
900	(,	1 1621-142130	
4			
PLEASE NOTE: Liability and Damages.	PLEASE NOTE: Liability and Demages. Condities liability and client's exclusive remedy for any claim arising whether based in contract or tort, sheeke inclined to the amount paid by the client or the plant of the contract of the client of the contract of the client or the client or the client or the client or the client of the client or	PLEASE NOTE: Liability and Damages. Conditial's liability and client's exclusive remedy for any claim arising whether based in contract or tort, sheet-by induct to the amount paid by the client or the PLEASE NOTE: Liability and Damages. Conditial's liability and client's exclusive remedy for any claim arising whether based in writing and received by calvinal which 30 days after completion of the applicable provided the conditions and any other cause which so the conditions.	
analyses. All claims including those for a service. In no event shall Cardinal be fial.	analyses. All claims including these on insignations are an expensional damages, including without limitation, business interruptions, loss of tise, or loss service, in no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of tise, or loss service, in no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of tise, or loss services.	let such dalm is basedupon any of the above stated reasons or otherwise.	
Relinquished-By:	Anilates or successors arising out of or related to the performance of services integriner of carbons, regulated By:  Relinquistificat By:	Phone Result:	Yes O No Add Fax#:
Reinguished By:	Received		
Delivered By: (Circle One)	37.8C	Sample Condition CHECKED BY:  Cool Infact (Initials)  Yes   Yes	