

February 27, 2014

AMARILLO 921 North Bivins Amarillo, Texas 79107

Mr. Mike Bratcher Phone 806.467.0607 NMOCD District 2 Fax 806.467.0622 811 S. 1st Street Artesia, NM 88210

ARTESIA

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

Subject:

Soil Assessment and Remediation Work Plan

Oxy USA Inc.

Goodnight 27 Federal #3H

API: 30-015-39220 - 2RP-2625

318 East Taylor Street Hobbs, New Mexico 88240 Phone 575.393.4261 Fax 575.393.4658 Dear Mr. Bratcher,

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

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

Background Information

The Goodnight 27 Federal No. 3H is located approximately 22 miles southeast of Carlsbad, New Mexico. The legal location for this release is Unit Letter M, Section 27, Township 23 South and Range 29 East in Eddy County, New Mexico. More specifically the latitude and longitude for the release are 32.2712468 North and -103.98000 West. A site plan is presented in Appendix I.

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

Fax 806.467.0622 According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Services, the soil in this area is made up of Simona-Bippus land complex soils with 0 to 5 percent slopes. The local surface and shallow geology, Quaternary Age sedimentary deposits, is comprised of alluvium and eolian sands which includes silty soils under lain by dense caliche layers. Drainage courses in this area are normally dry. The New Mexico State Engineer web site indicates the nearest ground water data to be in S28-T23S-R29E. The ground water in Section 28 is reported to be a depth of 18' below ground surface (bgs). The referenced groundwater data is presented in Appendix II.

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

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

Depth to ground water

<50'

Wellhead Protection Area

>1000'

Distance to surface water body

>1000'

ENVIRONMENTAL CONSULTING ENGINEERING

DRILLING

CONSTRUCTION SPILL MANAGEMENT

GENERAL CONTRACTING

Page 1 of 3

Toll Free: 866,742,0742 www.talonlpe.com

Incident Description

The stuffing box blew out on the wellhead due to cold weather causing a release of 5 barrels of oil. No fluids were recovered. All fluids remained on location surrounding the wellhead. Talon mobilized personnel to conduct a site assessment and soil sampling activities utilizing a hand auger. Further delineation was subsequently required with a backhoe within the impacted areas. The results of our soil sampling activities are summarized in the tables below.

Laboratory Results

See Appendix III for complete report of laboratory results.

December 23, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0'	< 0.300	352	<10	251
	0.5	0.627	464	<10	695
S-2	0	177	9330	1990	4880
	0.5'	58.3	9860	864	2650
S-3	0'	12.7	1960	438	5740
A	0.5'	0.927	832	<10	35.7

February 6, 2015 from backhoe

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	1'	Lucia de la compansión		<10	<10
	2'			<10	<10
	3'			<10	<10
S-2	1'	< 0.300	1020	<10	<10
	2'	< 0.300	1960	<10	<10
	3'	< 0.300	2720	<10	<10

Based upon the site ranking of 20, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg/kg for Benzene, 100 mg/kg for TPH and 1,000 mg/kg for Chlorides.

Proposed Remedial Actions

- The impacted area surrounding the wellhead in the vicinity of S-1 and S-2 will be hand-excavated to a depth of 1-feet deep taking care as to not disturb the integrity of the well-casing. The impacted area in the vicinity of S-3 will also be hand-excavated to a depth of 0.5-feet deep.
- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- The excavated area surrounding the wellhead will be backfilled with new caliche and recontoured to match the surrounding location.

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

Respectfully submitted,

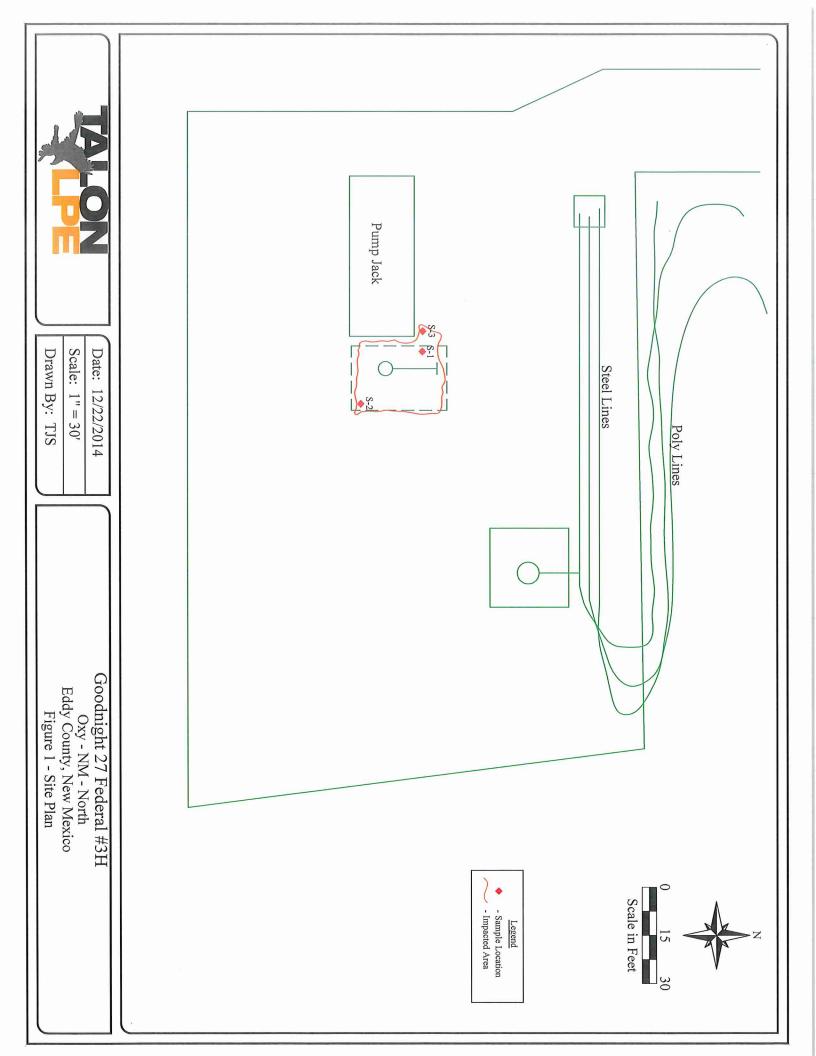
Kimberly M. Wilson

Project Manager

David J. Adkins

District Manager

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

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

water right me.)	Globba)		1					0	, ,					
	POD Sub-		0	Q	Q							Depth	Depth	Water
POD Number	Code basin C	ounty	-			Sec	Tws	Rng	Х	Υ	Distance			Column
C 01627	С	ED	1	4	4	28	23S	29E	595649	3570959* 🌑	450	170		
C 02707	С	ED			2	28	23S	29E	595535	3571868*	1221	40	18	22
C 02797		ED		2	3	22	23S	29E	596540	3572895* 🌑	2187	200		
C 02721		ED		2	3	21	23S	29E	594915	3572879* 🌑	2403	150		
C 03587 POD1	CUB	ED	1	4	3	29	23S	29E	593338	3570754 🌑	2716	99	44	55

Average Depth to Water:

31 feet

Minimum Depth:

18 feet

Maximum Depth:

44 feet

Record Count: 5

UTMNAD83 Radius Search (in meters):

Easting (X): 596054

Northing (Y): 3570762

Radius: 3000

^{*}UTM location was derived from PLSS - see Help

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division

DEC 1 6 2014

Form C-141 Revised August 8, 2011

SubmRECFIVE propriate District Office in accordance with 19.15.29 NMAC.

Ener

District 1
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

1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification	n and Co	rrective A	ction					
NAB435049621	OPERAT	TOR .			ıl Report	Final Report		
Name of Company: OXY USA INC / [D[0][0]	Contact: Cl							
Address: 102 S. Main St. Carlsbad, NM 88220		lo.: 575-628-41	21					
Facility Name: Goodnight 27 Federal #3H	Facility Typ	e: Well						
Surface Owner: Federal Mineral Owner					.: 30-015-3			
				Bease 1	1011 1111111			
LOCATIO								
Unit Letter Section Township Range Feet from the Nort M 27 23S 29E 962' Sout	h/South Line h	Feet from the 364'	East/W West	est Line	County Eddy			
Latitude <u>32.271246</u>	B N Longitud	e -103.98000 V	V					
	OF RELI		_					
Type of Release: Oil		Release: 5 bbls	Oil	Volume F	Recovered: 0	bbls		
Source of Release: Stuffing Box	Date and F 12/12/201	our of Occurrence	e	Date and 12/12/201	Hour of Dis	covery		
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?							
By Whom?	Date and Hour:							
Was a Watercourse Reached?		lume Impacting t	he Watc	rcourse.				
☐ Yes ⊠ No								
If a Watercourse was Impacted, Describe Fully.*								
Describe Cause of Problem and Remedial Action Taken.* The stuffing						release of 5		
barrels of oil. No fluids were recovered. Talon/LPE was contracted	to perform a	i initial site asses	ssment a	ind soil sa	mpling.			
Describe Area Affected and Cleanup Action Taken.* The area affected is around the wellhead measuring approximately	10'x20'.							
I hereby certify that the information given above is true and complete to	the heat of my	knowledge and u	ndorator	d that man	want to NM	OCD rules and		
regulations all operators are required to report and/or file certain release								
public health or the environment. The acceptance of a C-141 report by								
should their operations have failed to adequately investigate and remedi								
or the environment. In addition, NMOCD acceptance of a C-141 report	does not reliev	e the operator of	responsi	bility for c	ompliance v	with any other		
federal, state, or local laws and/or regulations.	Г	OIL GOLI	CIDIT	AMIONI	DIVITATO	22.7		
(Digitally signed by Chris Jones (Dernichts Innes (Dernichts In		OIL CON	SERV	<u>ATION</u>	DIVISIO	<u>N</u>		
Signature: Date: 2014.12,1607:20:27-0600			المريب	1 1				
Printed Name: Chris Jones	Approved by	En Signiada By S	pecialis	LY DIE	MANUTY_			
Title: HES Specialist	Approval Da	Phali		Expiration	Date:	A		
E-mail Address: Christopher.Jones@oxy.com	Conditions o	f Approval:	•		Attachad			
Date: 12/15/2014 Phone: 575-628-4121	Remediati	on per O.C.E). Ruie	s & Gul	deimes ^{eo}	' L		
* Attach Additional Sheets If Necessary	LATER TH		FLUG	I COPAL	1µ•			

APPENDIX III LABORATORY RESULTS



December 23, 2014

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GOODNIGHT 27 FED #3

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab 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 DAVID ADKINS 408 W. TEXAS AVE. ARTESIA NM, 88210 Fax To: (575) 745-8905

Received: Reported: 12/18/2014

12/23/2014

Project Name:

GOODNIGHT 27 FED #3

Project Number: Project Location: 70060838601 EDDY COUNTY, NM Sampling Date:

12/16/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S-1 0' (H403882-01)

BTEX 8021B	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	<0.050	0.050	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	<0.050	0.050	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	<0.150	0.150	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	<0.300	0.300	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	61-154	(
Chloride, SM4500CI-B	mg/	mg/kg		d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	251	10.0	12/23/2014	ND	195	97.4	200	2.52	
Surrogate: 1-Chlorooctane	86.6 %	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.3 9	6 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keens -



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

Received: Reported: 12/18/2014

12/23/2014

Project Name:

GOODNIGHT 27 FED #3

Project Number: Project Location: 70060838601

EDDY COUNTY, NM

Sampling Date:

12/16/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S-1 .5' (H403882-02)

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	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	0.136	0.050	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	0.082	0.050	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	0.409	0.150	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	0.627	0.300	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	% 61-154	i.						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	695	10.0	12/23/2014	ND	195	97.4	200	2.52	
Surrogate: 1-Chlorooctane									
Burroguie. 1-Chioroociane	83.7	% 47.2-15	7						

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Celey D. Keine



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

Fax To:

(575) 745-8905

Received:

12/18/2014

Sampling Date:

12/16/2014

Reported:

12/23/2014

Sampling Type:

Soil

Project Name:

GOODNIGHT 27 FED #3

Sampling Condition:

Cool & Intact

Project Number:

70060838601

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample ID: S-2 0' (H403882-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	3.86	2.00	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	57.8	2,00	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	20.1	2.00	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	95.4	6.00	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	177	12.0	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 61-154	(
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9330	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1990	50.0	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	4880	50.0	12/23/2014	ND	195	97.4	200	2.52	
Surrogate: 1-Chlorooctane	153	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	119	% 52.1-17	6						

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Celleg & Keene



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

Received:

12/18/2014

Reported:

12/23/2014

Project Name:

GOODNIGHT 27 FED #3

Project Number:

70060838601

Project Location:

EDDY COUNTY, NM

Sampling Date:

12/16/2014

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Kathy Perez

Sample ID: S-2 .5' (H403882-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.703	0.500	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	15.0	0.500	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	7.00	0.500	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	35.5	1.50	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	58.3	3.00	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 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	9860	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By; MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	864	10.0	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	2650	10.0	12/23/2014	ND	195	97.4	200	2.52	
Surrogate: 1-Chlorooctane	122 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	110 9	% 52.1-17	6						

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Celeg Ditreme -



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

Received:

12/18/2014

Sampling Date:

12/16/2014

Reported:

12/23/2014

Sampling Type:

Soil

Project Name:

GOODNIGHT 27 FED #3

Sampling Condition:

Cool & Intact

Project Name: Project Number:

70060838601

Sample Received By:

Kathy Perez

Project Location:

EDDY COUNTY, NM

Sample ID: S-3 0' (H403882-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	0.954	0.500	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	1.50	0.500	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	10.2	1.50	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	12.7	3.00	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 61-154	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	438	50.0	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	5740	50.0	12/23/2014	ND	195	97.4	200	2.52	
Surrogate: 1-Chlorooctane	138	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	131	% 52.1-17	6						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keens

Celey D. Keene, Lab Director/Quality Manager



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

Fax To:

(575) 745-8905

Received:

12/18/2014

12/23/2014

Sampling Date:

12/16/2014

Reported:

GOODNIGHT 27 FED #3

Sampling Type:

Soil

Project Name:

OODNIGHT 27 FED #

Sampling Condition:

Cool & Intact

Project Number: Project Location:

70060838601 EDDY COUNTY, NM Sample Received By:

Kathy Perez

Sample ID: S-3 .5' (H403882-06)

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	12/23/2014	ND	1.87	93.4	2.00	4.37	
Toluene*	0.208	0.050	12/23/2014	ND	1.85	92.3	2.00	4.87	
Ethylbenzene*	0.111	0.050	12/23/2014	ND	1.68	83.9	2.00	8.18	
Total Xylenes*	0.608	0.150	12/23/2014	ND	4.99	83.1	6.00	9.33	
Total BTEX	0.927	0.300	12/23/2014	ND					
Surrogate: 4-Bromofluorobenzene (PIL	102 9	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	832	16.0	12/22/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/23/2014	ND	183	91.3	200	0.177	
DRO >C10-C28	35.7	10.0	12/23/2014	ND	195	97.4	200	2.52	
Surrogate: 1-Chlorooctane	90.2	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.7	% 52.1-17	6						

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Celeg 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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

ANALYSIS REQUEST P.O. #: OPSG 172794 Company: CF7 Attn: Chf (s Ton-s Address: City: State: Zip: Phone # Fax #: ACID/BASE: ACID/B
--

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Alliates or excessions ariding out of or related to the performance of services hereuroder by Cardinal, regardless of whether supfi daim is based upon any of the above stated reason or otherwise.

Relinquished By:

Tirrige:

Received By: Delivered By: (Circle One) Time; Pate: 18-14 Received By Sample Condition
Cool Intact
Pes Yes
No No CHECKED BY: cheen his ☐ Yes ☐ No Add'l Phone#: #00# OP56

(Initials) Dement Tush 0101608 101

000

Sampler - UPS - Bus - Other:



February 06, 2015

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: GOODNIGHT 27 FED #3

Enclosed are the results of analyses for samples received by the laboratory on 02/05/15 11:00.

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

02/05/2015

Reported:

02/06/2015

Project Name:

GOODNIGHT 27 FED #3

Project Number:

70060838601

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/03/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 1' (H500331-01)

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	02/06/2015	ND	183	91.5	200	3.10	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	184	91.9	200	0.981	
Surrogate: 1-Chlorooctane	106 9	% 47.2-15	7	ř					
Surrogate: 1-Chlorooctadecane	87.0	% 52.1-17	6						

Sample ID: S-1 2' (H500331-02)

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	02/06/2015	ND	183	91.5	200	3.10	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	184	91.9	200	0.981	
Surrogate: 1-Chlorooctane	107	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.1	% 52.1-17	6						

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Fax To:

(575) 745-8905

Received:

02/05/2015

Reported:

02/06/2015

Project Name:

GOODNIGHT 27 FED #3

Project Number: Project Location:

70060838601

EDDY COUNTY, NM

Sampling Date:

02/03/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-1 3' (H500331-03)

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	02/06/2015	ND	183	91.5	200	3.10	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	184	91.9	200	0.981	
Surrogate: 1-Chlorooctane	110	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	91.7	% 52.1-17	6						

Sample ID: S-1 4' (H500331-04)

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	02/06/2015	ND	183	91.5	200	3.10	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	184	91.9	200	0.981	
Surrogate: 1-Chlorooctane	106	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.2	% 52.1-17	6						

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

Fax To:

(575) 745-8905

Received:

DTEV 0021B

02/05/2015

Reported:

02/06/2015

Project Name:

GOODNIGHT 27 FED #3

Project Number: Project Location: 70060838601

EDDY COUNTY, NM

Sampling Date:

02/03/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-2 1' (H500331-05)

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	02/05/2015	ND	1.89	94.3	2.00	1.55	
Toluene*	<0.050	0.050	02/05/2015	ND	1.81	90.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	02/05/2015	ND	1.73	86.7	2.00	0.928	
Total Xylenes*	<0.150	0.150	02/05/2015	ND	5.16	86.1	6.00	0.612	
Total BTEX	<0.300	0.300	02/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 9	% 61-154	į.						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1020	16.0	02/06/2015	ND	432	108	400	3.77	
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	02/06/2015	ND	183	91.5	200	3.10	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	184	91.9	200	0.981	
Surrogate: 1-Chlorooctane	109 5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	89.0	% 52.1-17	6						

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Fax To:

(575) 745-8905

Received:

02/05/2015

Reported:

02/06/2015

Project Name:

GOODNIGHT 27 FED #3

Project Number: Project Location: 70060838601

EDDY COUNTY, NM

Sampling Date:

02/03/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: S-2 2' (H500331-06)

BTEX 8021B	mg/l	cg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/05/2015	ND	1.89	94.3	2.00	1.55	
Toluene*	<0.050	0.050	02/05/2015	ND	1.81	90.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	02/05/2015	ND	1.73	86.7	2.00	0.928	
Total Xylenes*	<0.150	0.150	02/05/2015	ND	5.16	86.1	6.00	0.612	
Total BTEX	<0.300	0.300	02/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	99.4 %	61-154				7			
Chloride, SM4500CI-B	mg/l	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	02/06/2015	ND	432	108	400	3.77	
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	02/06/2015	ND	183	91.5	200	3.10	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	184	91.9	200	0.981	
Surrogate: 1-Chlorooctane	105 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	84.69	6 52.1-17	6						

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Fax To:

(575) 745-8905

Received:

02/05/2015

Reported:

02/06/2015

Project Name:

GOODNIGHT 27 FED #3

Project Number:

70060838601

Project Location:

EDDY COUNTY, NM

Sampling Date:

02/03/2015

Sampling Type: Sampling Condition: Soil Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: S-2 3' (H500331-07)

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	02/05/2015	ND	1.89	94.3	2.00	1.55	
Toluene*	<0.050	0.050	02/05/2015	ND	1.81	90.5	2.00	1.50	
Ethylbenzene*	<0.050	0.050	02/05/2015	ND	1.73	86.7	2.00	0.928	
Total Xylenes*	<0.150	0.150	02/05/2015	ND	5.16	86.1	6.00	0.612	
Total BTEX	<0.300	0.300	02/05/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	101 %	6 . 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	2720	16.0	02/06/2015	ND	432	108	400	3.77	
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	02/06/2015	ND	183	91.5	200	3.10	
DRO >C10-C28	<10.0	10.0	02/06/2015	ND	184	91.9	200	0.981	
Surrogate: 1-Chlorooctane	109 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	85.4	% 52.1-17	6						

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ND

Notes and Definitions

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

- Chloride by 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

Analyte NOT DETECTED at or above the reporting limit

Cardinal Laboratories

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

(5/5) 333-2326 FMA (5/5) 330-247/0	ANALYSIS REQUEST
Company Name: Talon/LPE	
Project Manager:	P.O.#
Address: 408 W. Texas Ave.	Company: O
	Attn Ches Cones
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:
Project #: 82608 386 of Project Owner:	City:
me Small aft o	State: Zip:
180	Phone #:
Sampler Name:	2
	PRESERV. SAMPLING
: (C)OMP. IERS VATER	****
G)RABO O CONTAI BROUND WASTEW SOIL DIL	DTHER: ACID/BAS ICE / COO OTHER: TIME
S-1 .	
2 S-12	
35-13	
48-14-	2-3-0 [2-30]
7 7 2 - 7	2.3.15 11:44 X X X
S	2:3:15 11:48 X X X X
78,23	2:3:1511.50 / 1
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remody for any claim arising whether based in contract or tot, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whateoever shall be deemed varieted unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whateoever shall be deemed variety and the contract of the product of the product of the contract of the product	ract or torf, shall be limited to the amount paid by the client for the and received by Cardinal within 90 days after completion of the applicable ra, loss of use, or loss of parties incurred by client, the subsidiantes,
affiliate or successors arising out of or related to the performance of services hereurder by Gordinal regardless of whether such dall it is saled upon any or its above sealed sealed. Registrating the By: Dalle	In a cased upon any of the address address and addres
	REMARKS:
Refinotrished By: Date: Received By:	80 th 01-04-11-11
Timo.	The state of the s

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

Sample Condition
Cool Intact
Yes Tes
No No

clement 2019 Task #01010608

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

Time: