RECEIVED

By OCD District 1 at 9:27 am, Jul 21, 2015

July 8, 2015

Ms. Kellie Jones NMOCD District 1

1625 N French Dr. 921 North Bivins Hobbs, NM 88240

APPROVED 5a' V[f[a' S^

By OCD District 1 at 9:27 am, Jul 21, 2015

#Z Ensure at least two confirmation samples are taken.

2. Ensure BLM approval/concurrence.

Subject:

Soil Assessment and Remediation Work Plan

Raging Bull Oilfield Services Trionyx Water Transfer Line

ARTESIA

AMARILLO

Amarillo, Texas 79107 Phone 806.467.0607

Fax 806.467.0622

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

Dear Ms. Jones,

Raging Bull Oilfield Services (Raging Bull) has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. HOBBS The results of our soil assessment and proposed remediation activities consist of the

318 East Taylor Street following. Hobbs, New Mexico 88240 Phone 575.393.4261

Fax 575.393.4658 Incident Date

June 18, 2015

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

Background Information

The Raging Bull Trionyx Water Transfer Line is located approximately forty-one miles south west of Jal, New Mexico. The legal location for this site is Unit Letter O. Section 6, Township 25 South and Range 32 East in Lea County, New Mexico. More specifically the latitude and longitude for this release are 32.15362 North and -103.713036 West. See site plan in Appendix I.

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

> 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 Natural Resources Conservation Services, the soil in this area is made SAN ANTONIO up of Pyote loamy fine sand. Per the New Mexico Bureau of Geology and Mineral Resources, 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 S11-T22S-R31E. The ground water in Section 11 appears to be dry at a depth of 4911' below ground surface (bgs). The referenced groundwater data is presented in Appendix II.

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

ENVIRONMENTAL CONSULTING

ENGINEERING Depth to ground water >100' DRILLING Wellhead protection area >1000' CONSTRUCTION Distance to surface water body >1000'

SPILL MANAGEMENT GENERAL CONTRACTING

Page 1 of 3

Toll Free: 866.742.0742 www.talonlpe.com

Incident Description

An 8-inch transfer line failed due to stress on the fitting which malfunctioned causing a release of approximately 75 barrels of produced water into the pasture. A vacuum truck was immediately dispatched to the location to recover the standing fluids. Approximately 2 barrels of water were recovered. Talon mobilized personnel to perform an initial site assessment and soil sampling activities.

Laboratory Results

See Appendix III for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	(mg/kg) (mg/kg) GRO				
S-1	0'		23600				
	1'		8400				
	2'		4320				
	3'		480				
S-2	0'		10100				
S-2 S-3	1,		9100				
	2'		7900	19 19 1 <u></u>			
	3'		528				
S-3	0'		16400				
	1'		9100				
	2'		7300				
	3'		1760				
S-4	0'		10200				
	1'		8300				
	2'	4-0	9100				
	3'		7300				
Refusal	3.5'		11800				

(--) Analyte Not Tested

Proposed Remedial Actions

- The impacted area in the vicinity of sample locations S-1 and S-2 will be excavated to a depth of 3-feet deep.
- The impacted area in the vicinity of sample location S-3 will be excavated to a depth of 3.5-feet deep with confirmation samples obtained.
- The impacted area in the vicinity of sample location S-4 will be excavated to a depth of 3.5-feet deep due to the rock layer that was encountered during delineation activities.

- All of the excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- Upon approval from the OCD on the confirmation sample, the work area will be backfilled with top soil. Once backfill activities are complete the area will be contoured 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.

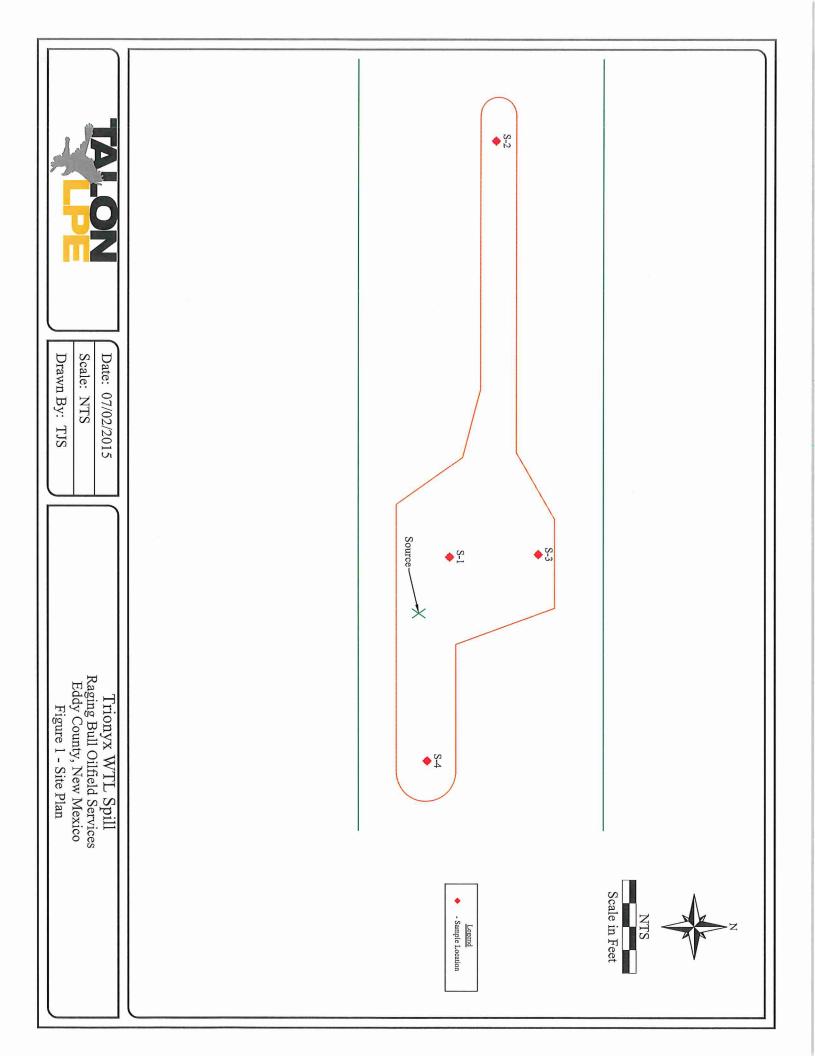
Respectfully submitted,

Unley holy

TALON/LPE

Kimberly 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)

								,		,		,
	POD					44.7					1.6	
	Sub-		Q	QC)						Depth	Depth Water
POD Number	Code basin Co	ounty 6	34 1	16 4	Se	c Tws	Rng	Х	Υ	Distance		Water Column
C 02744		ED	3	2 ′	11	228	31E	617374	3586631* 🌍	4086	4911	
C 02939	С	LE	3	3 ′	19	22S	32E	620234	3583042*	4219	280	
C 03150		ED	2	4 4	14	228	31E	618412	3584025*	4302	981	

Average Depth to Water:

Minimum Depth:

Maximum Depth:

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 621435

Northing (Y): 3587087

Radius: 5000

APPENDIX III LABORATORY RESULTS



June 26, 2015

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: TRONIXES (WTL)

Enclosed are the results of analyses for samples received by the laboratory on 06/23/15 14:25.

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

Received:

06/23/2015

Reported:

06/26/2015

Project Name: Project Number: TRONIXES (WTL) NOT GIVEN

Project Location:

LEA

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

06/22/2015

Sample Received By:

** (See Notes)

Jodi Henson

Sample ID: S-1, 0' (H501630-01)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: HM

Analyte

Analyte

Result 23600

Result

8400

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 06/25/2015 Method Blank

ND

BS 416 % Recovery 104

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-1, 1' (H501630-02)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyzed

06/25/2015

Method Blank

ND

% Recovery BS

416

True Value QC

400

Qualifier

RPD 0.00

Sample ID: S-1, 2' (H501630-03)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte Result 4320

Reporting Limit

Analyzed

Method Blank

% Recovery

True Value QC

RPD

Qualifier

Chloride

Chloride

Result

480

16.0

Reporting Limit

16.0

06/25/2015

ND

BS 416

104

104

400

0.00

Sample ID: S-1, 3' (H501630-04)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyzed 06/25/2015 Method Blank ND

BS 416 % Recovery 104

True Value QC 400

RPD

0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

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Celeg & Keens

Celey D. Keene, Lab Director/Quality Manager



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

Received:

06/23/2015

Reported:

06/26/2015

Project Name: Project Number: TRONIXES (WTL) NOT GIVEN

Project Location:

LEA

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

** (See Notes) Jodi Henson

06/22/2015

Soil

Sample ID: S-2, 0' (H501630-05)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: HM

Analyte

Result 10100 Reporting Limit 16.0

Analyzed 06/25/2015 Method Blank ND

BS 416 % Recovery

104

True Value QC 400

Qualifier

RPD 0.00

Sample ID: S-2, 1' (H501630-06)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte Result Reporting Limit Analyzed

06/25/2015

Method Blank

BS

416

BS

416

% Recovery 104

True Value QC 400

Qualifier

RPD 0.00

Sample ID: S-2, 2' (H501630-07)

Chloride, SM4500CI-B

Analyte

Analyte

mg/kg

9100

Result

7900

Analyzed By: HM

Reporting Limit 16.0

16.0

Analyzed 06/25/2015 Method Blank ND

ND

% Recovery

104

True Value QC

400

RPD

0.00

0.00

Qualifier

Sample ID: S-2, 3' (H501630-08)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Result Reporting Limit

Analyzed

Method Blank ND

BS

416

% Recovery 104

104

True Value QC 400

RPD

Qualifier

Sample ID: S-3, 0' (H501630-09)

Chloride, SM4500CI-B

mg/kg

Analyzed By: HM

Analyte

Result 16400

528

Reporting Limit 16.0

16.0

Analyzed 06/25/2015

06/25/2015

Method Blank ND

% Recovery 416

BS

True Value QC 400

RPD

0.00

Qualifier

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Celey D. Keene, Lab Director/Quality Manager



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/23/2015

Reported:

06/26/2015

Project Name: Project Number: TRONIXES (WTL) NOT GIVEN

Project Location:

LEA

Sampling Date:

Sampling Type:

Sampling Condition:

Sample Received By:

** (See Notes)

06/22/2015

Soil

Jodi Henson

Sample ID: S-3, 1' (H501630-10)

Chloride, SM4500CI-B

Chloride

Chloride

Chloride

Chloride

mg/kg

Analyzed By: HM

Analyte

Analyte

Result 9100 Reporting Limit 16.0

Reporting Limit

16.0

16.0

Analyzed 06/25/2015

Analyzed

06/25/2015

Method Blank ND

BS 416 % Recovery 104

104

True Value QC 400

RPD 0.00 Qualifier

Sample ID: S-3, 2' (H501630-11)

Chloride, SM4500CI-B

mg/kg

Result

7300

1760

Analyzed By: HM

Method Blank

ND

BS % Recovery

416

BS

400

True Value QC

400

RPD Qualifier

0.00

Sample ID: S-3, 3' (H501630-12)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte Result Reporting Limit

Analyzed 06/25/2015 Method Blank ND

% Recovery

100

True Value QC

400

RPD Qualifier

0.00

Sample ID: S-4, 0' (H501630-13)

Analyte

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Method Blank

BS

% Recovery

True Value QC 400

RPD

Result 10200

16.0

Reporting Limit

Analyzed 06/25/2015

ND

ND

400

100

Qualifier

Sample ID: S-4, 1' (H501630-14)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyte

Chloride

Result

8300

Reporting Limit

16.0

Analyzed 06/25/2015 Method Blank

BS 400 % Recovery 100

True Value QC 400

RPD

0.00

0.00

Qualifier

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*=Accredited Analyte

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Celey D. Kreene

Celey D. Keene, Lab Director/Quality Manager



TALON LPE KIMBERLY WILSON 408 W. TEXAS AVE. ARTESIA NM, 88210

Fax To:

(575) 745-8905

Received:

06/23/2015

Reported:

06/26/2015

Project Name: Project Number: TRONIXES (WTL)
NOT GIVEN

Project Location:

LEA

Sampling Date:

ouriping bacc.

Sampling Type: Soil

20

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

06/22/2015

Jodi Henson

Sample ID: S-4, 2' (H501630-15)

Chloride, SM4500CI-B

Chloride

Chloride

mg/kg

Analyzed By: AP

Analyte

Analyte

Result R

9100

Result

7300

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 06/25/2015

Method Blank ND BS 400 % Recovery 100

100

True Value QC 400

RPD

0.00

Qualifier

Sample ID: S-4, 3' (H501630-16)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AP

Analyzed

06/25/2015

Method Blank

BS % Recovery

True Value QC

400

RPD

0.00

Qualifier

Qualifier

Sample ID: S4, 3.5'(R) (H501630-17)

Chloride, SM4500CI-B

ma/k

Analyzed By: AP

Analyte	Result	Reporting Limit
Chloride	11800	16.0

Analyzed

06/25/2015

Method Blank ND BS 400

400

% Recovery 100

True Value QC 400 RPD 0.00

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Celey D. Keene, Lab Director/Quality Manager

Page 5 of 8



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

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Celey D. Keine



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 ANALYSIS REQUEST
Project Manager:	P.O. #:	
Address: 408 W. Texas Ave.	Company: Talor	Talon/LPE
State: NM		
Phone #: 575-746-8768 Fax #: 575-746-8905	8905 Address:	5
Project #: Project Owner:	Lagin Ball city:	
Project Name: 1/0n/ks (U)	State: Zip:	÷c)
Project Location: (e a	Phone #:	
Sampler Name:	Fax#:	
FOR LAB USE ONLY		SAMPLING
Lab I.D. Sample I.D. G)RAB OR (C)OMP	CONTAINERS BROUNDWATER WASTEWATER BOIL DIL BLUDGE DTHER: CCID/BASE: CE / COOL DTHER ROOM TE W	To Ea/
-		·iS *
2 S- 1, 1. ×	×	<i>\(\)</i>
35-1, 2° ×	×	t
4 S-1, 3" Y	*	<i>A</i>
5 5-2 0 ×	×	A
× × ×	×	1
1 5-2, 2 ×	×	*
8 5-2,3° ×	x	4
7 S. 3, 0' ×	×	*
10 S. 3. 1.	у (<i>\(\)</i>
PALEASE NOTE: Liability and Damages, Cardinal's liability and clients excitative strately dray claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for nepligence and any other cardisate we has been decided white and of the contract of the applicable service. In no event shall Cardinal be liable for including to consensurated domance including white white the artists of the applicable service. In no event shall Cardinal be liable for including to consensurated domance including white white the artists of the a	vising whether based in contract or tort, shall be limited to the amou alved unless made in writing and received by Cardinal within 30 day mission, his liness interruptions, loss of the parkets of section.	nt paid by the client for the state completion of the applicable described as a completion of the applicable
Relinquished By:/ Date: Received By:	inal, regardless of whether such claim is based upon any of the above sta Received By:	t: Yes No
o My Millow Time:	8	□ Yes □
and hours	1	The state of the s
Reinquisned by: Date: 23/5 Received the Company of	Received By:	
Delivered By: (Grich One)	ndition CHECK	
Communication of Services.	No II is	



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Time: Date: 33 Received By: Clicele One) Clicele One) Clicele One Cool Indan CHECKED BY: Cool Indan CHECKED BY: Cool Indan CHECKED BY: Cool Indan No No No	affiliates or successors arising out of or related to the performance of services incremder by Cardinal regardless of whether such could be a successor arising out of or related to the performance of services incremder by Cardinal regardless of whether such could be a successor arising out of or related to the performance of services incremder by Cardinal regardless of whether such could be a successor arising out of or related to the performance of services incremder by Cardinal regardless of whether such could be a successor and the performance of services incremder by Cardinal regardless of whether such could be a successor and the performance of services incremder by Cardinal regardless of whether such could be a successor and the performance of services incremder by Cardinal regardless of whether such could be a successor and the performance of services incremder by Cardinal regardless of whether such could be a successor and the performance of services incremder by Cardinal regardless of whether such cardinal regardless of white regardless of white such cardinal regardless of white regardles	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive ramedy for any claim arising whether based in contract or toot, shall be limited to the amount paid by the client is replicable. All claims including those for negligence and any other cause whatboever shall be deemed valved 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 whatboever shall be deemed valved invitings and received time, to see of profits incurred by client, its substitutions, can be seen that the passors or otherwise. The contract that is a profit of the contract		6 S. 4 3. X X X	5 5.4 2.		12 C - 1 C - X X X X X 2	2 x x x x x x x x x x x x x x x x x x x	*	# CON GROU WAST SOIL OIL SLUD OTHE ACID		Temp	Sampler Name:	Project Location: Les	Project Name: Tradixes (UTL)		-746-8768 Fax #: 575-746-8905	State: NM Zip: 88210	W. Texas Ave.	Project Manager: P.O. #:	Company Name: Talon/LPE
	Result: ☐ Yes ☐ No Add'l Phone #: sult: ☐ Yes ☐ No Add'l Fax #:	pilicable		* '		×	*	X	X		706	.1	<i>C</i> ¹	70	·	<i>l</i> -s					ANALYSIS REGOES