

Hudson Federal Tank Battery #001

WORK PLAN

API No. 30-015-21052

Release Date: October 3, 2016

Unit Letter F, Section 1, Township 23 South, Range 30 East

NMOCD Case #: 2R-3956

June 26, 2017

Prepared by:

Michael Alves
Diversified Field Service, Inc.
206 W. Snyder
Hobbs, NM 88240

Phone: (575)964-8394 Fax: (575)393-8396 XTO ENERGY 06/26/2017

Mike Bratcher Environmental Protection Specialist New Mexico Oil Conservation District 811 S First St Artesia, NM 88210

RE: XTO – Hudson Federal Tank Battery #001

Remediation Work Plan

UL/F, Section 1, T23S, R30E API No. 30-015-31513

NMOCD Case #: 2R-3956

NMOCD Score: 0

Mr. Bratcher,

XTO Energy (XTO) has retained Diversified Environmental (DFSI) to address environmental issues for the site detailed herein.

The site is located northwest of Loving, NM, in Eddy County. The spill site resulted from a ruptured gasket, releasing a total of approximately 9 barrels of oil and 24 barrels of produced water, with 3 barrels of oil and 12 barrels of produced water recovered. An initial C-141 was submitted to NMOCD on October 21, 2016 and approved on October 24, 2016 (Appendix I).

Site Assessment

Beginning March 21, 2017 DFSI personnel were on site to obtain samples at regular intervals within the release area (Figure 1). Six samples were obtained and field tested for chloride levels, as well as BTEX (Appendix II). The samples were screened using a Mini Rae Photoionization Detector (PID). Clean field samples were submitted for laboratory analysis at Cardinal Laboratory of Hobbs, NM to obtain confirmation (Appendix III).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, the average depth to groundwater beneath this site is approximately 105 ft (Appendix IV).

XTO ENERGY 06/26/2017

Conclusion

After careful review DFSI, on behalf of XTO, would like to propose the following:

In order to maintain tank integrity, the release area within the battery will be excavated to a depth of 1' bgs. The excavated soil will be properly disposed of at an approved NMOCD facility. The excavation will be backfilled with clean, imported soil to ground surface. The pasture release area will be tilled and seeded with a blend of native vegetation. Any remaining constituents will be addressed at time of site abandonment.

Following the approval and completion of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact with any questions concerning this remediation plan request.

Sincerely,

Michael Alves

Environmental Supervisor | Diversified Field Service, Inc.

206 West Snyder | Hobbs, NM 88240

Office: (575)964-8394 | Mobile: (575)631-3364

Fax: (575)964-8396 | Email: malves@diversifiedfsi.com

Cc: Shelly Tucker, BLM

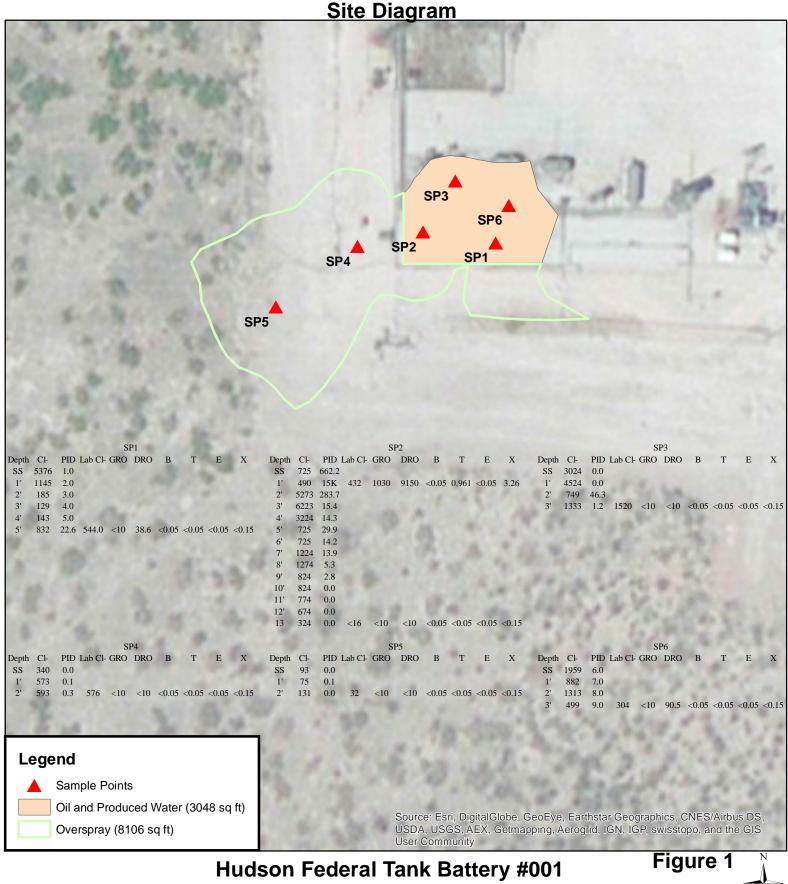
Figures: Site Diagram

Proposed Work

Appendices: Initial C-141

Site Photos

Laboratory Analysis Groundwater Study



Unit Letter F, Section 1, T23S, R30E **Eddy County, NM**

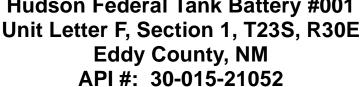
API#: 30-015-21052 NMOCD Case #: 2R-3956





20 40 80 Feet

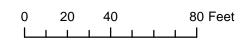
Proposed Work SP5 Legend Sample Points Proposed Excavation to 1' bgs (3254 sq ft) Oil and Produced Water (3048 sq ft) Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community Overspray (8106 sq ft) Figure 2 **Hudson Federal Tank Battery #001**



NMOCD Case #: 2R-3956







Appendix I

INITIAL C-141

NM OIL CONSERVATION

ARTESIA DISTRICT

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

State of New Mexico Energy Minerals and Natural Resources

OCT 2 1 2016

Form C-141 Revised August 8, 2011

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

Submit 1 Copy to appropriate District Office in RECEIVED NMAC.

Release Notification and Corrective Action												
NAB1429 852573	OPERATOR Initial Report Final Report											
Name of Company: BOPCO, L.P.	Contact: Amy Ruth											
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220	Telephone No. 575-887-7329											
Facility Name: Hudson Federal Battery #1 (at Hudson Federal well #7)	Facility Type: Exploration and Production											
Surface Owner: Federal Mineral Owner	: Federal API No. 30-015-31513											
LOCATIO	ON OF RELEASE											
	h/South Line Feet from the East/West Line County											
Latitude 32.335761°	Longitude -103.836860°											
NATURI	E OF RELEASE											
Type of Release Crude oil and produced water	Volume of Release 9 bbls Oil 24 bbls PW Volume Recovered 3 bbls Oil 12 bbls PW											
Source of Release Ruptured Gasket	Date and Hour of Occurrence Date and Hour of Discovery 10/3/2016 time unknown 10/3/2016 approx. 10 am											
Was Immediate Notice Given?	If YES, To Whom?											
	Mike Bratcher and Heather Patterson											
By Whom? Amy Ruth	Date and Hour 10/3/2016 4:46 pm by email											
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. N/A											
If a Watercourse was Impacted, Describe Fully. N/A.												
Describe Cause of Problem and Remedial Action Taken.*												
Release of fluids was the result of a ruptured gasket on a gas supply pot	The vessel was isolated for repairs.											
Describe Area Affected and Cleanup Action Taken.*												
Leak affected approximately 5,000 square feet of misted pasture area we Free standing fluids within the earthen containment were recovered via	est of the battery and 3670 square feet of caliche pad and earthen containment.											
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 the NMOCD marked as "Final Report" does not relieve the operator of liability											
should their operations have failed to adequately investigate and remedi-	ate contamination that pose a threat to ground water, surface water, human health											
or the environment in addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	does not relieve the operator of responsibility for compliance with any other											
A A A	OIL CONSERVATION DIVISION											
Signature: Nau Charles	// //											
Frinted Name: Amy C. Ruth	Approved by Environmental Specialist:											
Title: EHS Remediation Specialist	Approval Date: 101341160 Expiration Date: 111A											
E-mail Address: ACRuth@basspet.com	Conditions of Approval:											
	Remediation per O.C.D. Rules & Guidentes SUBMIT REMEDIATION PROPOSAL NO											
Date: 10/21/2016 Phone: 432-661-0571 Attach Additional Sheets If Necessary	SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 12010 2000 7000											

Appendix II

SITE PHOTOS

HUDSON FEDERAL TANK BATTERY #001

PHOTO PAGE



Collecting sample





Collecting sample



Collecting sample

Appendix III

LABORATORY ANALYSES



March 22, 2017

MICHAEL ALVES

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: HUDSON 7 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/21/17 10:40.

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)

Celey D. Keine

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

Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC.

MICHAEL ALVES P. O. BOX 5966 HOBBS NM, 88241

Fax To: (575) 393-2981

 Received:
 03/21/2017
 Sampling Date:
 03/21/2017

 Reported:
 03/22/2017
 Sampling Type:
 Soil

Project Name: HUDSON 7 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP1 @ 5' (H700729-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2017	ND	2.01	100	2.00	1.83	
Toluene*	< 0.050	0.050	03/21/2017	ND	1.91	95.5	2.00	1.26	
Ethylbenzene*	< 0.050	0.050	03/21/2017	ND	1.93	96.3	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/21/2017	ND	5.52	91.9	6.00	2.10	
Total BTEX	<0.300	0.300	03/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	72-148	,						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/21/2017	ND	416	104	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	03/21/2017	ND	199	99.3	200	1.21	
DRO >C10-C28	38.6	10.0	03/21/2017	ND	204	102	200	2.04	
Surrogate: 1-Chlorooctane	84.8 9	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	90.9	% 26.8-17	0						

Surrogate: 1-Chlorooctadecane 90.9 % 26.8-170

Cardinal Laboratories *=Accredited Analyte

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DIVERSIFIED FIELD SERVICES, INC.

MICHAEL ALVES P. O. BOX 5966 HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 03/21/2017 Sampling Date: 03/21/2017

Reported: 03/22/2017 Sampling Type: Soil

Project Name: **HUDSON 7 BATTERY** Sampling Condition: ** (See Notes) Project Number: Sample Received By: NONE GIVEN Tamara Oldaker

Project Location: **NOT GIVEN**

Sample ID: SP2 @ 1' (H700729-02)

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	03/21/2017	ND	2.01	100	2.00	1.83	
Toluene*	0.961	0.050	03/21/2017	ND	1.91	95.5	2.00	1.26	
Ethylbenzene*	<0.050	0.050	03/21/2017	ND	1.93	96.3	2.00	1.98	
Total Xylenes*	3.26	0.150	03/21/2017	ND	5.52	91.9	6.00	2.10	
Total BTEX	4.22	0.300	03/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	120	% 72-148	}						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	03/21/2017	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	1030	10.0	03/21/2017	ND	199	99.3	200	1.21	
DRO >C10-C28	9150	10.0	03/21/2017	ND	204	102	200	2.04	
Surrogate: 1-Chlorooctane	176	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	218	% 26.8-17	0						

Surrogate: 1-Chlorooctadecane 218 % 26.8-170

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DIVERSIFIED FIELD SERVICES, INC.

MICHAEL ALVES P. O. BOX 5966 HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 03/21/2017 Sampling Date: 03/21/2017

Reported: 03/22/2017 Sampling Type: Soil Project Name: HUDSON 7 BATTERY Sampling Condition: **(

Project Name: HUDSON 7 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP3 @ 3' (H700729-03)

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	03/21/2017	ND	2.01	100	2.00	1.83	
Toluene*	<0.050	0.050	03/21/2017	ND	1.91	95.5	2.00	1.26	
Ethylbenzene*	<0.050	0.050	03/21/2017	ND	1.93	96.3	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/21/2017	ND	5.52	91.9	6.00	2.10	
Total BTEX	<0.300	0.300	03/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 72-148							
Chloride, SM4500CI-B	mg/	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1520	16.0	03/21/2017	ND	416	104	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	03/21/2017	ND	199	99.3	200	1.21	
DRO >C10-C28	<10.0	10.0	03/21/2017	ND	204	102	200	2.04	
Surrogate: 1-Chlorooctane	84.4	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	87.7	% 26.8-17	0						

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DIVERSIFIED FIELD SERVICES, INC. MICHAEL ALVES

P. O. BOX 5966 HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 03/21/2017 Sampling Date: 03/21/2017

Reported: 03/22/2017 Sampling Type: Soil

Project Name: HUDSON 7 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP4 @ 2' (H700729-04)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/21/2017	ND	2.01	100	2.00	1.83	
Toluene*	<0.050	0.050	03/21/2017	ND	1.91	95.5	2.00	1.26	
Ethylbenzene*	<0.050	0.050	03/21/2017	ND	1.93	96.3	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/21/2017	ND	5.52	91.9	6.00	2.10	
Total BTEX	<0.300	0.300	03/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	576	16.0	03/21/2017	ND	416	104	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	03/21/2017	ND	199	99.3	200	1.21	
DRO >C10-C28	<10.0	10.0	03/21/2017	ND	204	102	200	2.04	
Surrogate: 1-Chlorooctane	85.6	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	87.4	% 26.8-17	70						

Surrogate: 1-Chlorooctadecane 87.4 % 26.8-170

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DIVERSIFIED FIELD SERVICES, INC.

MICHAEL ALVES P. O. BOX 5966 HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 03/21/2017 Sampling Date: 03/21/2017

Reported: 03/22/2017 Sampling Type: Soil

Project Name: HUDSON 7 BATTERY Sampling Condition: ** (See Notes)
Project Number: NONE GIVEN Sample Received By: Tamara Oldaker

Project Location: NOT GIVEN

Sample ID: SP5 @ 2' (H700729-05)

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	03/21/2017	ND	2.01	100	2.00	1.83	
Toluene*	<0.050	0.050	03/21/2017	ND	1.91	95.5	2.00	1.26	
Ethylbenzene*	<0.050	0.050	03/21/2017	ND	1.93	96.3	2.00	1.98	
Total Xylenes*	<0.150	0.150	03/21/2017	ND	5.52	91.9	6.00	2.10	
Total BTEX	<0.300	0.300	03/21/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 72-148	}						
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/21/2017	ND	416	104	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	03/21/2017	ND	199	99.3	200	1.21	
DRO >C10-C28	<10.0	10.0	03/21/2017	ND	204	102	200	2.04	
Surrogate: 1-Chlorooctane	75.5	% 25.1-15	8						
Surrogate: 1-Chlorooctadecane	76.9	% 26.8-17	0						

Cardinal Laboratories *=Accredited Analyte

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Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

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

*** Insufficient time to reach temperature.

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

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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



RUSH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	(575) 393-2326 FAX (575) 393-2476 ame: DFS/											LTO				_	_	A	NAL	YSIS	RE	QUE	ST		_	
	Michael Awes							P.0	D. #:	8	119	2														
ddroce * h	LAB FORS TO XT	6*						Co	mpa	ny:	DF	51														
ity:	Sta	te: Zi	ip:					At		1.		-	F			1							1			1
hone #:	Fax						(Ac	dres	s. I	W	SH FER	5*	D									1	1		1
roject #:	Proj	ect Owner:					-	CI	y:				_										1	1		1
roject Name:								St	ate:		Z	ip:												1	1	1
roject Location:	Hypson 7	BATT						PI	one	#:								- 1					1			
sampler Name:	EUSAH RASCON							Fa	x #:		_			1									1			
FOR LAB USE ONLY			\mathbf{I}	T		MAT	RIX	-	PRE	SER	V.	SAMPLI	NG	1	1									1	1	
Lab I.D.	(G)RAB # CONT GROUN WASTE				SOIL	OIL.	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME	HAL	Bra	É											
1700 109	P185'	The second secon						,		X		3-21-17	859	X	X	1	0						_	-		-
7 6	02.01'		1	1		Ì						1	908								-	-	-	-	+	+
25	P3@ 3'												850	1/	11		-			_	-	-	-	+	+	+
45	1967'										1		832	11	11	+	-				-	+	+	+	+	+
5 5	P5@2'		1	1		+		+	-	1	4	-	836	1	1	1"	-	_	_		+	+	+	+	1	+
			1	1	+		\vdash	+	-	\vdash	-			-	-	+	+			-	+	+				
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service. In no event shall Card affiliates or successors arising	inal be liable for incidental or consequental out of or related to the performance of servi	ices hereunder by Car	rdinal r	regard	ed By	hether	such d	ons, los aim is b	of use, ased up	or loss on any	of the	above stated re	Phone R	wise.					Addi							
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[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



June 20, 2017

MICHAEL ALVES

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: HUDSON TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 06/19/17 8:26.

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)

Celey D. Keine

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

Lab Director/Quality Manager



DIVERSIFIED FIELD SERVICES, INC. MICHAEL ALVES P. O. BOX 5966

HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 06/19/2017 Sampling Date: 06/16/2017

Reported: 06/20/2017 Sampling Type: Soil

Project Name: HUDSON TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY CO NM

Sample ID: SP 2 @ 13' (H701575-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2017	ND	1.98	99.2	2.00	0.678	
Toluene*	< 0.050	0.050	06/19/2017	ND	1.88	93.9	2.00	2.14	
Ethylbenzene*	< 0.050	0.050	06/19/2017	ND	1.98	98.8	2.00	0.672	
Total Xylenes*	<0.150	0.150	06/19/2017	ND	5.31	88.4	6.00	0.551	
Total BTEX	<0.300	0.300	06/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 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	<16.0	16.0	06/19/2017	ND	432	108	400	3.64	
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	06/19/2017	ND	187	93.7	200	3.52	
DRO >C10-C28	<10.0	10.0	06/19/2017	ND	192	96.2	200	3.54	
Surrogate: 1-Chlorooctane	57.2	28.3-16	4						
Surrogate: 1-Chlorooctadecane	44.8	% 34.7-15	7						

Cardinal Laboratories *=Accredited Analyte

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DIVERSIFIED FIELD SERVICES, INC.

MICHAEL ALVES P. O. BOX 5966 HOBBS NM, 88241

Fax To: (575) 393-2981

Received: 06/19/2017 Sampling Date: 06/16/2017

Reported: 06/20/2017 Sampling Type: Soil

Project Name: HUDSON TANK BATTERY Sampling Condition: Cool & Intact
Project Number: NOT GIVEN Sample Received By: Tamara Oldaker

Project Location: EDDY CO NM

Sample ID: SP 6 @ 3' (H701575-02)

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	06/19/2017	ND	1.98	99.2	2.00	0.678	
Toluene*	< 0.050	0.050	06/19/2017	ND	1.88	93.9	2.00	2.14	
Ethylbenzene*	< 0.050	0.050	06/19/2017	ND	1.98	98.8	2.00	0.672	
Total Xylenes*	<0.150	0.150	06/19/2017	ND	5.31	88.4	6.00	0.551	
Total BTEX	<0.300	0.300	06/19/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8 9	% 72-148							
Chloride, SM4500Cl-B	mg/	mg/kg		d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/19/2017	ND	432	108	400	3.64	
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	06/19/2017	ND	187	93.7	200	3.52	
DRO >C10-C28	90.5	10.0	06/19/2017	ND	192	96.2	200	3.54	
Surrogate: 1-Chlorooctane	68.7 9	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	56.3 9	% 34.7-15	7						

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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

Cardinal Laboratories *=Accredited Analyte

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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) 393-2	(575) 393-2326 FAX (575) 393-2476 spany Name: XTO Energy ect Manager: Amy Roth						BII	L TO					AN	ALYSI	REQ	UEST	_		
roject Manager: A	RITE				Р.	0. #:	_												
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FOR LAB USE ONLY MATRIX VALUE & S.				SLUDGE	ACID/BASE	X X ICE / COOL	DATE Glib	TIME RS:30 Y:3QM	×	₩ × ₩	STEX X								
PLEASE NOTE: Liability and Damages Cardi analysiss All claims including three for negligie survice. In no event shall Cardinal be liable for attacking or accounts around out of or guited. Relinquished By: Delivered By: (Circle C Sampler - UPS - Bus - C	more and any other cause whatsoever shall be moderated or organizationaries dearmages, include to the control of convects interested to the part of the control of convects interested to the part of the control of the	Recei	ved By: Value Sam Coo	we interrupted the good	enditio	s of use.	or loss of por any of the CHEC	eulits incurred by	Phone R Fax Res REMARI	lesult: ult: KS:	□ Ye	s D	No A	dd'i Phondd'i Fax #		Malve flore aboute	2,20 20 20 20 20)	fte

⁺ Cardinal cannot accent workal changes Dlazes for written changes to (575) 107,7276

Appendix IV

GROUNDWATER STUDY



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 h replaced, O=orphane C=the file closed)	ed,	(qı					/ 2=NI st to la	E 3=SW rgest)		3 UTM in meter	s)	(In feet)	
		Sub-		_	Q	_								Water
POD Number	Code	basin	County						_	X	Y	DepthWellD	epthWater C	Column
<u>C 03139</u>			ED	4	2	4	01	23S	30E	610424	3577764*	425		
C 03222 EXPLORE			ED	1	1	4	12	23S	30E	609833	3576349*	365		
C 03559 POD1		CUB	ED	4	3	2	01	23S	30E	609928	3578260	50	0	50
C 03559 POD2		CUB	ED	4	3	2	01	23S	30E	609928	3578260	25	0	25
C 03559 POD3		CUB	ED	4	3	2	01	23S	30E	609928	3578260	20	0	20
C 03559 POD4		CUB	ED	4	3	2	01	23S	30E	609928	3578260	25	0	25
C 03559 POD5		CUB	ED	4	3	2	01	23S	30E	609912	3578236	50		
											Average Depth to	Water:	0 f	eet
											Minimu	ım Depth:	0 f	eet
											Maximu	m Depth:	0 f	eet

Record Count: 7

PLSS Search:

Section(s): 1, 2, 11, 12 Township: 23S Range: 30E

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.

6/21/17 9:24 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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



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 replaced, O=orpha C=the file closed)	ned,	(qı	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) Q Q Q										
		Sub-		O	0 (О						W	ater	
POD Number	Code		County	-	-	-	e Tws	Rng	X	Y 1	DepthWellDeptl			
<u>C 02492</u>			ED	4	4	4 06	23S	31E	612056	3577320*	135	85	50	
C 02492 POD2		C	ED	3	2	2 07	23S	31E	611767	3576996	400	125	275	
<u>C 02865</u>			ED	4	4	4 06	23S	31E	612056	3577320*	174			
C 03520 POD1		C	ED	3	1	1 07	23S	31E	610733	3576905	500			
										Average Depth to V	Water:	105 fee	t	
										Minimum	Depth:	85 fee	t	
										Maximum	Depth:	125 fee	t	
Record Count: 4														

Record Count: 4

PLSS Search:

Section(s): 6, 7 Township: 23S Range: 31E

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6/21/17 9:25 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

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



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 replaced, O=orphar C=the file closed)	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters) (In feet)												
		Sub-		Q	Q	Q								Water
POD Number	Code	basin	County	64	16	4	Sec	Tws	Rng	X	Y	DepthWellD	epthWater C	Column
<u>C 02638</u>			ED	4	3	3	35	22S	30E	607558	3578948*	528		
C 03561 POD1		CUB	ED	3	2	3	36	22S	30E	609288	3579393	30	0	30
C 03561 POD2		CUB	ED	3	2	3	36	22S	30E	609314	3579424	25	0	25
C 03561 POD3		CUB	ED	3	2	3	36	22S	30E	609393	3579425	25	0	25
C 03561 POD4		CUB	ED	3	2	3	36	22S	30E	609419	3579425	25	0	25
C 03561 POD5		CUB	ED	3	2	3	36	22S	30E	609419	3579425	20	0	20
			Average Depth to Water:										0 f	eet
			Minimum Depth:										0 f	eet
											Maximu	m Depth:	0 f	eet

Record Count: 6

PLSS Search:

Township: 22S Range: 30E Section(s): 35, 36

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6/21/17 9:25 AM

WATER COLUMN/ AVERAGE DEPTH TO

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

6/21/2017 GW 4.htm



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

(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

No records found.

PLSS Search:

Section(s): 31 Township: 22S Range: 31E

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6/21/17 9:25 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER