

SITE INFORMATION

Report Type: Work Plan 1RP-4608

General Site Information:

Site:	Warren McKee Battery					
Company:	ConocoPhillips					
Section, Township and Range	Unit K	Sec. 29	T 20S	R 38E		
Lease Number:	API No.					
County:	Lea County					
GPS:	32.541952° N			103.171439° W		
Surface Owner:	Federal					
Mineral Owner:	N/A					
Directions:	From the intersection of Highway 18 and E. Stanolind Road in Hobbs, take Highway 18 south for 9.7 miles. Turn right (west) onto lease road for 2.55 miles. Location will be to the left (south) of lease road.					

Release Data:

Date Released:	2/3/2017	
Type Release:	Crude Oil	
Source of Contamination:	Seperator	
Fluid Released:	5 bbls	
Fluids Recovered:	0 bbls	

Official Communication:

Name:	Neal Goates		Greg W. Pope
Company:	ConocoPhillips		Tetra Tech
Address:	600 N. Dairy Ashford Road		4000 N. Big Spring
			Ste 401
City:	Houston, TX 77079		Midland, Texas
Phone number:	(281) 293-1000		(432) 687-8134
Fax:			
Email:	N.Goates@conocophillips.com		Greg.Pope@tetrattech.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	55 feet bgs
>100 ft.	0	
WellHead Protection:	Ranking Score	Site Data
Water Source <1,000 ft., Private <200 ft.	20	
Water Source >1,000 ft., Private >200 ft.	0	0
Surface Body of Water:	Ranking Score	Site Data
<200 ft.	20	
200 ft - 1,000 ft.	10	
>1,000 ft.	0	0
Total Ranking Score:		10

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	1,000

May 30, 2018

NMOCD approves of the
delineation completed and
proposed remediation for
1RP-4608.

Ms. Olivia Yu
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Work Plan for the ConocoPhillips Company, Warren McKee Battery, Unit K,
Section 29, Township 20 South, Range 38 East, Lea County, New Mexico.
1RP-4608.**

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company to evaluate and assess a release that occurred at the Warren McKee Battery, Unit K, Section 29, Township 20 South, Range 38 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.541952°, W 103.171439°. The site location is shown on Figures 1 and 2.

Background

The release occurred at the site on February 3, 2017 due to a controller freezing. The malfunction resulted in a release of 5 barrels of oil into the battery pad area. A switch was activated to open a valve and prevent more fluids from spilling. None of the fluid was recovered. The initial C-141 form is included in Appendix A.

Groundwater

There were no wells listed in Section 29 on the New Mexico Office of the State Engineers database. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is around 55' below ground surface (bgs). The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.com



proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylenes). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment and Analytical Results

On March 27, 2018, Tetra Tech personnel were onsite to further evaluate and sample the release area. A total of three (3) bore holes (BH-1 through BH-3) were installed in the spill area to define the extents of the impacted soils. Soil samples were collected and field screened with a PID and for chlorides. Selected samples were analyzed for TPH analysis by EPA Method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA Method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The sample locations are depicted on Figure 3.

Referring to Table 1, samples for total BTEX were below the RRALs. The chloride concentrations were not detected in the subsurface soils samples greater than 600 mg/kg. Total TPH concentrations exceeded the RRALs of 1,000 mg/kg for the three (3) borings in the 0-1' depth interval and the 1-2' depth interval. Total TPH concentrations also exceeded in the 2-3' depth interval in BH-1.

Work Plan

Based on the laboratory results, ConocoPhillips proposes to remove the impacted material as highlighted (green) on Table 1 and shown on Figure 4.

The area of bore hole BH-1 showed the deepest TPH impact to the area. This area will be excavated to a maximum depth of 3.0 feet bgs to remove the TPH impacted soil above the RRALs. The areas of bore holes, BH-2 and BH-3, will be excavated to a depth of 2.0 feet bgs. Once excavated, confirmation samples will be collected from the bottom of the excavation and sidewalls and analyzed for TPH, total BTEX, and chlorides.

Once excavated to the appropriate depth, the excavation will be backfilled with clean material to surface grade. All of the excavated material will be transported offsite for proper disposal.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As such, ConocoPhillips will excavate the impacted soils to the maximum extent practicable. In inaccessible areas, the hydrocarbon impacted area will be treated with a Micro-blaze product will be used to aid in the degradation of the hydrocarbons. If a Micro-blaze product is used, periodic samples will be collected from the remediation area to monitor the progress of the remediation and apply additional treatments as needed. Due to the spill area being entirely in an active production pad area, no reseeding plan is proposed.

Conclusion



TETRA TECH

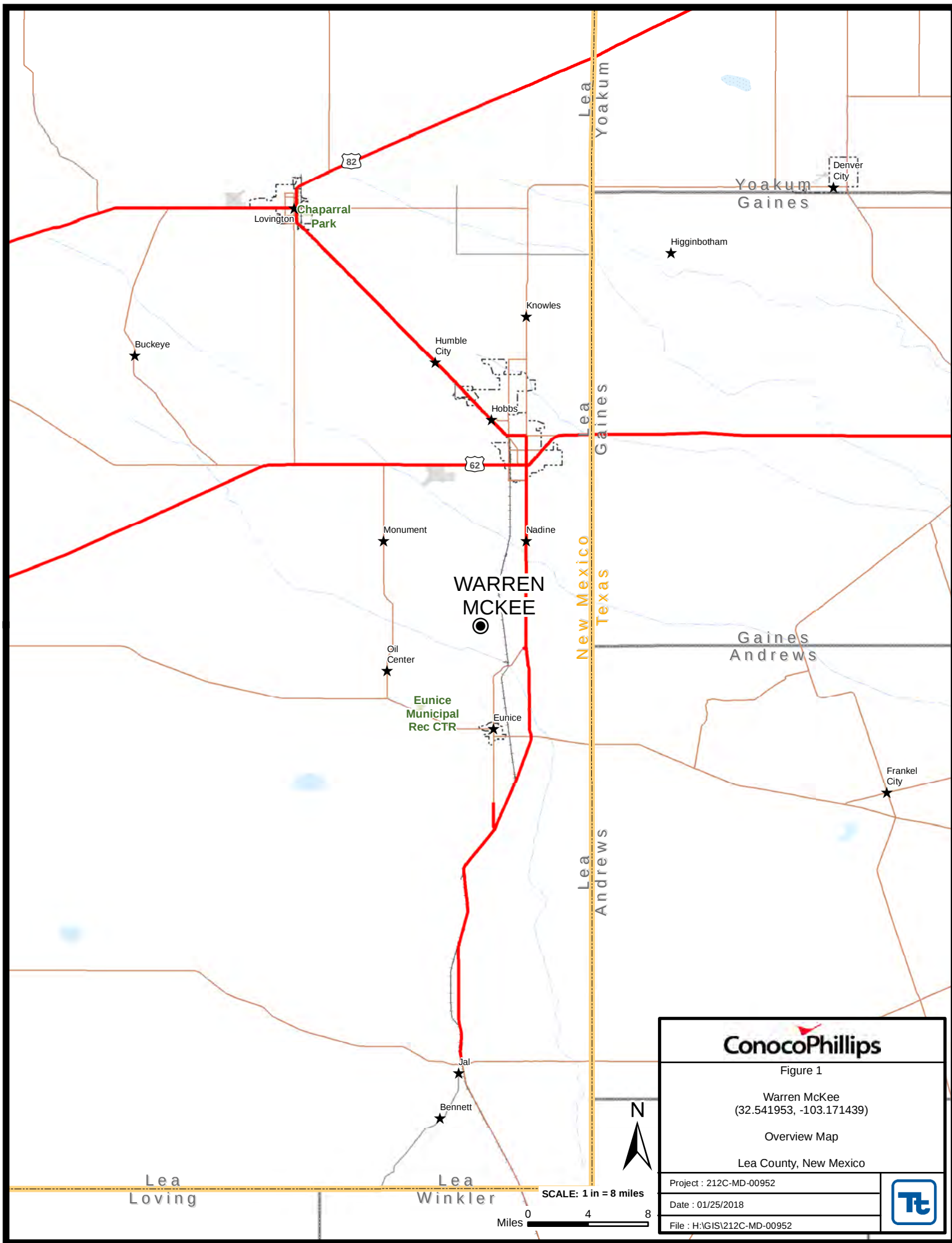
Upon completion, a final report detailing the remediation activities will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Todd Wells
Project Manager

Greg W. Pope, P.G.
Senior Project Manager

Figures



ConocoPhillips

Figure 1

Warren McKee
(32.541953, -103.171439)

Overview Map

Lea County, New Mexico

Project : 212C-MD-00952

Date : 01/25/2018

File : H:\GIS\212C-MD-00952



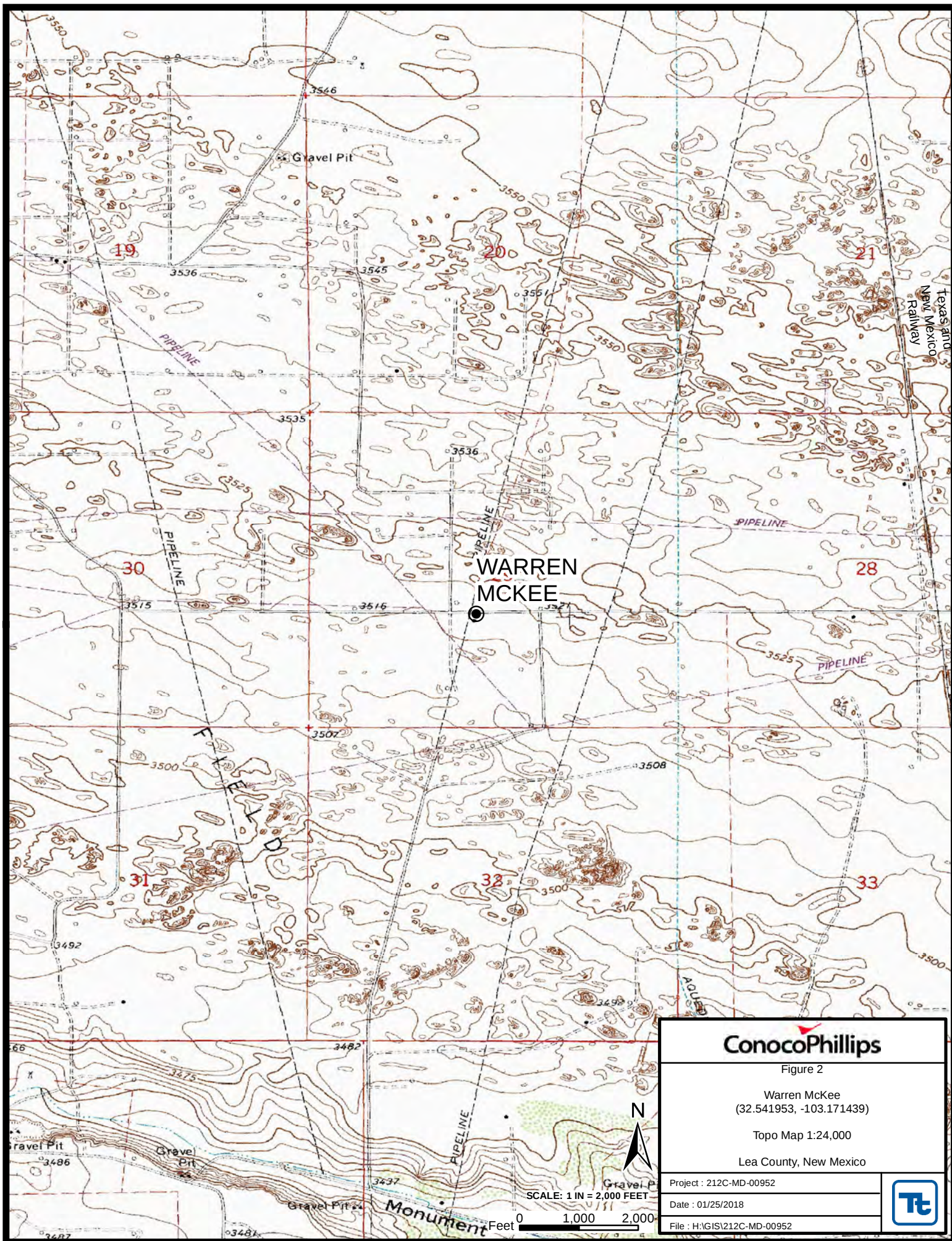




FIGURE NO. 3

ConocoPhillips

SPILL ASSESSMENT MAP

WARREN McKEE BATTERY
LEA COUNTY, NEW MEXICO
32.541952°N, -103.171439°W

Project: 212C-MD-00952

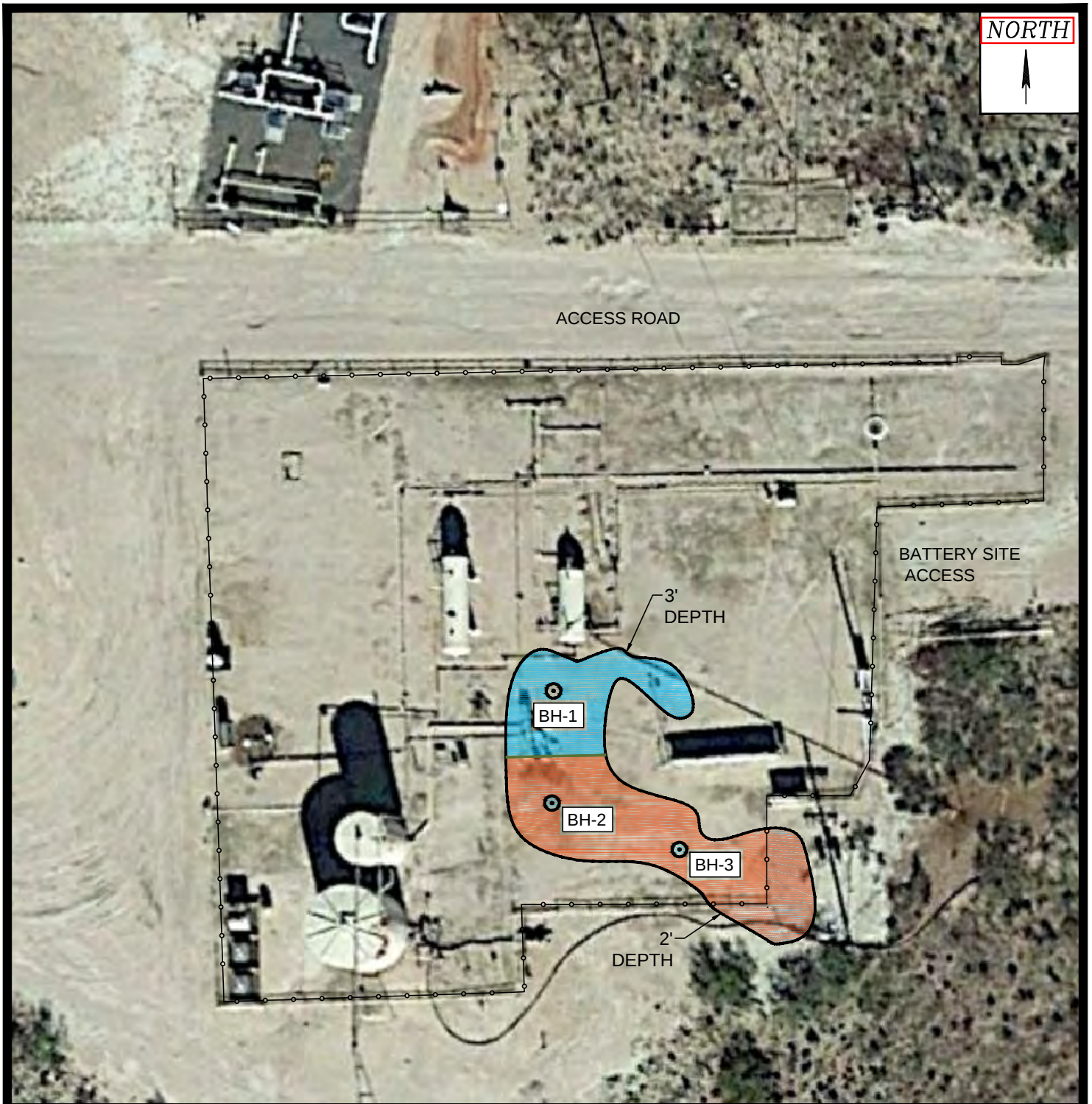
Date: 5/22/2018

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LEGEND

-  BORE HOLE SAMPLE LOCATIONS
-  SPILL LOCATION AREA
-  FENCE



NORTH

ACCESS ROAD

BATTERY SITE
ACCESS

3'
DEPTH

BH-1

BH-2

BH-3

2'
DEPTH

0 50 100
1"=100 FT

FIGURE NO. 4

ConocoPhillips

PROPOSED EXCAVATION AREA
& DEPTH MAP

WARREN McKEE BATTERY
LEA COUNTY, NEW MEXICO
32.541952°N, -103.171439°W

Project: 212C-MD-00952

Date: 5/22/2018

File: H:\Acad Data\CONOCO\212C-MD-00952\WARREN McKEE BATTERY FIG. 4



LEGEND

-  BORE HOLE SAMPLE LOCATIONS
-  2' EXCAVATION DEPTH
-  3' EXCAVATION DEPTH
-  FENCE

Tables

Table 1
ConocoPhillips
Warren McKee
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH				BTEX					Chloride (mg/kg)
			In-Situ	Removed	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	Total	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	
BH-1	3/27/2018	0-1	X		33.2	3,930	4,660	8,623.2	<0.0033	<0.0033	<0.0033	0.021	0.021	140
	"	1-2	X		<9.9	799	1,270	2,069	-	-	-	-	-	74.8
	"	2-3	X		<10.0	559	868	1,427	-	-	-	-	-	165
	"	3-4	X		<10.1	233	409	642	-	-	-	-	-	-
	"	4-5	X		<10.1	<10.1	217	217	-	-	-	-	-	-
BH-2	3/27/2018	0-1	X		<10.1	35,300	40,600	75,900	<0.0017	<0.0017	<0.0017	<0.0052	<0.0052	182
	"	1-2	X		<10.0	1,310	1,240	2,550	-	-	-	-	-	<10.5
	"	2-3	X		<10.0	143	180	523	-	-	-	-	-	<10.3
BH-3	3/27/2018	0-1	X		<10.0	6,560	6,670	13,230	<0.0019	<0.0019	<0.0019	<0.0058	<0.0058	17.6
	"	1-2	X		<10.0	2,190	2,260	4,450	-	-	-	-	-	<10.3
	"	2-3	X		<10.0	185	203	388	-	-	-	-	-	<10.7

Proposed Excavation Depths
 (-) Not Analyzed

Photos

**ConocoPhillips
Warren McKee Battery
Lea County, New Mexico**



TETRA TECH



View Northwest – View of spill area



View Northeast– Area of BH-1

**ConocoPhillips
Warren McKee Battery
Lea County, New Mexico**



TETRA TECH



View East – Area of BH-2



View East – Area of BH-3

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ConocoPhillips	Contact: Jose A Zepeda	
Address: 1410 N West County Rd	Telephone No. 575-391-3165	
Facility Name: Warren McKee Battery	Facility Type: Separator	
Surface Owner: Federal LC031695B	Mineral Owner: N/A	API No.

LOCATION OF RELEASE

Unit Letter K	Section 20	Township 20S	Range 38E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 5.0	Volume Recovered: 0
Source of Release: Separator	Date and Hour of Occurrence 02/03/2017 0700	Date and Hour of Discovery SAME
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Kristen Lynch	
By Whom? Jose A Zepeda	Date and Hour: 02/03/2017 1300 Via Email	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully. * N/A		

RECEIVED

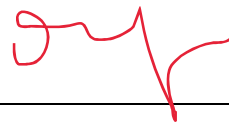
By Olivia Yu at 10:01 am, Feb 16, 2017

Describe Cause of Problem and Remedial Action Taken. *

On February 3, 2017 at 0700 hrs. at Warren McKee Battery a release occurred when a controller froze causing a dump to malfunction resulting in a release of 5.0 bbl. of oil with 0 bbl. recovered. Immediate action was to activate switch and open valve to stop spill. Spill site will be remediated per COPC and NMOCD guidelines.

Describe Area Affected and Cleanup Action Taken. *

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: JOSE A ZEPEDA		OIL CONSERVATION DIVISION	
Printed Name: Jose A Zepeda		Approved by Environmental Specialist: 	
Title: LEAD HSE	Approval Date: 2/16/2017	Expiration Date:	
E-mail Address: Jose. A. Zepeda@conocophillips.com	Conditions of Approval: see attached directive		Attached ☒
Date: 02/03/2017	Phone: 575-391-3165		

* Attach Additional Sheets If Necessary

1RP-4608

fOY1704736225

nOY1704736400

pOY1704737482

Appendix B



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)

POD Number	POD		Q Q Q							X	Y	Depth Well	Depth Water	Water Column	
	Sub-Code	basin	County	64	16	4	Sec	Tws	Rng						
L 00407 POD4		L	LE	4	2	4	07	20S	38E	670781	3606727*		136	72	64
L 00407 POD5		L	LE	1	2	4	07	20S	38E	670581	3606927*		136	64	72
L 00407 S		L	LE	2	2	4	07	20S	38E	670781	3606927*		134	66	68
L 00407 S	R	L	LE	2	2	4	07	20S	38E	670781	3606927*		134	66	68
L 00407 S2		L	LE	2	3	2	07	20S	38E	670371	3607323*			63	
L 00438		L	LE	2	3	2	08	20S	38E	671980	3607351		120	38	82
L 00438 POD10		L	LE	3	1	3	02	20S	38E	675783	3608432*		97	28	69
L 00438 POD11		L	LE	3	1	3	02	20S	38E	675783	3608432*		80	35	45
L 00438 POD6		L	LE	1	2	3	08	20S	38E	671385	3606941*		125	90	35
L 00438 POD7		L	LE	1	1	4	08	20S	38E	671788	3606948		123		
L 00438 POD8		L	LE	1	1	3	02	20S	38E	675783	3608632*		85	35	50
L 00438 POD9		L	LE	1	1	3	02	20S	38E	675783	3608632*		101	23	78
L 00438 S		L	LE	2	4	1	08	20S	38E	671578	3607344		122	76	46
L 00438 S2		L	LE	2	3	2	08	20S	38E	671980	3607351		120	88	32
L 00595		L	LE	2	2	2	07	20S	38E	670766	3607733*		98		
L 00595 POD3		L	LE	4	2	2	07	20S	38E	670766	3607533*		115		
L 00595 S	R	L	LE	4	2	2	07	20S	38E	670766	3607533*		112	87	25
L 01675 POD1		L	LE		3	3	07	20S	38E	669476	3606405*		130	80	50
L 02061 POD2	R	L	LE	4	4	2	02	20S	38E	677182	3608854*		116	52	64
L 02061 S		L	LE		1	2	02	20S	38E	676674	3609351*		116	52	64
L 02061 S2		L	LE	2	2	2	02	20S	38E	677175	3609457*		100	65	35
L 02109		L	LE	2	4	2	18	20S	38E	670803	3605719*		124	50	74
L 02124	R	L	LE	1	3	3	08	20S	38E	671190	3606531*		131		
L 02124 POD2		L	LE	2	3	3	08	20S	38E	671190	3606531		122	70	52
L 02125		L	LE	2	4	3	08	20S	38E	671593	3606538		120		
L 02169 POD2		L	LE		2	3	07	20S	38E	669877	3606815*		107		

*UTM location was derived from PLSS - see Help

(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)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 02169 S	L	LE		2	2	3	07	20S	38E	669976	3606914*	127	55	72
L 02239	L	LE			1	2	14	20S	38E	676732	3606127*	90	38	52
L 02404	L	LE		2	4	4	06	20S	38E	670759	3608136*	80	60	20
L 02495	L	LE			1	1	05	20S	38E	671042	3609251*	104	24	80
L 02498	L	LE		4	4	4	06	20S	38E	670759	3607936*	90	65	25
L 02498 POD2	R	L	LE	4	4	4	06	20S	38E	670759	3607936*	90	73	17
L 02498 POD3	L	LE		4	4	4	06	20S	38E	670759	3607936*	88	67	21
L 02735	L	LE		4	4	4	12	20S	38E	678836	3606463*	90	65	25
L 03107	L	LE					03	20S	38E	674886	3608704*	80	25	55
L 03125	L	LE		1	4	4	11	20S	38E	677025	3606635*	52	52	0
L 03281	L	LE		1	3	1	08	20S	38E	670976	3607337*	127	60	67
L 03799	L	LE		1	2	4	08	20S	38E	672190	3606955*	83		
L 03800	L	LE		1	2	4	08	20S	38E	672190	3606955*	103		
L 04501	L	LE			3	1	03	20S	38E	674268	3608907*	62	45	17
L 04769	L	LE			2	1	05	20S	38E	671444	3609258*	104	54	50
L 05912	L	LE		4	4	1	07	20S	38E	669969	3607116*			
L 06462	L	LE		2	2	4	02	20S	38E	677189	3608651*	86	45	41
L 06835	L	LE		1	2	1	03	20S	38E	674562	3609415*	100	40	60
L 07547	L	LE		1	1	1	02	20S	38E	675768	3609437*	100	48	52
L 07559 POD1	L	LE		4	2	3	02	20S	38E	676385	3608438*	80	39	41
L 07559 POD10	L	LE		2	2	3	02	20S	38E	676385	3608638*	75	46	29
L 07559 POD11	L	LE		1	2	3	02	20S	38E	676185	3608638*	75	42	33
L 07559 POD2	L	LE		4	2	3	02	20S	38E	676385	3608438*	70	43	27
L 07559 POD3	L	LE		2	2	3	02	20S	38E	676385	3608638*	71	39	32
L 07559 POD4	L	LE		2	2	3	02	20S	38E	676385	3608638*	75	44	31
L 07559 POD5	L	LE		1	2	3	02	20S	38E	676185	3608638*	75	41	34
L 07559 POD6	L	LE		2	1	3	02	20S	38E	675983	3608632*	80	44	36
L 07559 POD7	L	LE		4	2	3	02	20S	38E	676385	3608438*	75		
L 07559 POD8	L	LE		4	2	3	02	20S	38E	676385	3608438*	75	39	36

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(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 07559 POD9	L	LE		2	2	3	02	20S	38E	676385	3608638*	70	39	31
L 07980	L	LE		4	3	26		20S	38E	676412	3601687*	130	65	65
L 08310	L	LE		1	1	13		20S	38E	677536	3606140*	65	42	23
L 08437	L	LE		2	3	11		20S	38E	676315	3606927*	31		
L 08458	L	LE		2	1	02		20S	38E	676271	3609344*	98	38	60
L 08514	L	LE		4	1	1	14	20S	38E	676027	3606013*	60		
L 09359	L	LE		2	2	2	11	20S	38E	677203	3607845*	110	90	20
L 09381	L	LE		4	4	1	11	20S	38E	676407	3607229*	48		
L 09503	L	LE		4	3	4	10	20S	38E	675215	3606402*	100	47	53
L 09560	L	LE		2	2	2	11	20S	38E	677203	3607845*	135		
L 09721	L	LE		2	2	11		20S	38E	677104	3607746*	85	25	60
L 09771	L	LE			1	06		20S	38E	669633	3609023*	65	53	12
L 09904	L	LE			1	02		20S	38E	676077	3609136*	80	57	23
L 09918	L	LE		4	2	21		20S	38E	673954	3604063*	135		
L 10049	L	LE			4	12		20S	38E	678535	3606758*	90	50	40
L 10055 POD1	L	LE		1	1	1	24	20S	38E	677465	3604628*	53	30	23
L 10057 POD1	L	LE		3	1	1	24	20S	38E	677465	3604428*	58		
L 10106	L	LE		4	3	3	11	20S	38E	676020	3606416*	52	35	17
L 10318	L	LE			3	3	11	20S	38E	675921	3606517*	47	31	16
L 10359	L	LE		1	1	2	02	20S	38E	676573	3609450*	83	55	28
L 10656 POD1	R	L	LE	1	2	2	11	20S	38E	677003	3607845*	66	42	24
L 10656 POD2	L	LE		1	2	2	11	20S	38E	677003	3607845*	64	41	23
L 10708	L	LE			1	11		20S	38E	676107	3607524*	67	39	28
L 10726	L	LE		2	4	11		20S	38E	677119	3606940*	65	35	30
L 11004	L	LE			3	12		20S	38E	677729	3606744*	60	46	14
L 11713 POD1	L	LE		1	3	1	04	20S	38E	672532	3609138	62	30	32
L 11862 POD1	L	LE		1	1	1	02	20S	38E	675768	3609437*	95	45	50
L 12050 POD1	L	LE			1	1	02	20S	38E	675785	3609291	95	45	50
L 12455 POD1	L	LE		2	1	2	02	20S	38E	676854	3609504	100	68	32

*UTM location was derived from PLSS - see Help

(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)

POD Number	POD		Q Q Q							X	Y	Depth Well	Depth Water	Water Column
	Sub-Code	basin	County	64	16	4	Sec	Tws	Rng					
L 12478 POD1	L	LE	3	2	3	05	20S	38E	671378	3608423		100	57	43
L 13127 POD1	L	LE	3	3	2	02	20S	38E	676682	3608815		117	75	42
L 13398 POD1	L	LE	4	1	1	14	20S	38E	676082	3605956		60	60	0
L 13411 POD1	L	LE	3	3	1	01	20S	38E	677294	3608810		104	63	41
L 13546 POD1	L	LE	4	4	3	34	20S	38E	675011	3600037		88		
L 13814 POD1	L	LE	1	3	1	02	20S	38E	676578	3609011		80	60	20
L 14058 POD2	L	LE	2	3	4	11	20S	38E	676786	3606717		42	33	9
L 14339 POD1	L	LE	1	1	4	02	20S	38E	676580	3608613		95	45	50
L 14389 POD1	L	LE	3	3	1	02	20S	38E	675845	3608900		95	42	53

Average Depth to Water: **51 feet**

Minimum Depth: **23 feet**

Maximum Depth: **90 feet**

Record Count: 93

PLSS Search:

Township: 20S

Range: 38E

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Appendix C

April 24, 2018

Greg Pope
TetraTech
4000 N. Big Spring St.
Ste 401
Midland, TX 79705

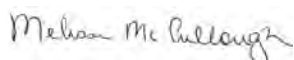
RE: Project: Warren McKee
Pace Project No.: 7584752

Dear Greg Pope:

Enclosed are the analytical results for sample(s) received by the laboratory on March 30, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Melissa McCullough
melissa.mccullough@pacelabs.com
(972)727-1123
Project Manager

Enclosures

cc: Kayla LovelyTaylor, TetraTech
Todd Wells, TetraTech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Warren McKee

Pace Project No.: 7584752

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 17-016-0

Illinois Certification #: 200030

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212018-1

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407

Utah Certification #: KS00021

Kansas Field Laboratory Accreditation: # E-92587

Missouri Certification: 10070

Dallas Certification IDs:

400 West Bethany Dr Suite 190, Allen, TX 75013

EPA# TX00074

Florida Certification #: E871118

Texas Certification #: T104704232

Kansas Certification #: E-10388

Arkansas Certification #: 88-0647

Oklahoma Certification #: 8727

Louisiana Certification #: 30686

Iowa Certification #: 408

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Warren McKee

Pace Project No.: 7584752

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7584752001	BH-1 (0-1)	Solid	03/27/18 13:00	03/30/18 09:55
7584752002	BH-1(1-2)	Solid	03/27/18 13:00	03/30/18 09:55
7584752003	BH-1(2-3)	Solid	03/27/18 13:00	03/30/18 09:55
7584752004	BH-1(3-4)	Solid	03/27/18 13:00	03/30/18 09:55
7584752005	BH-1(4-5)	Solid	03/27/18 13:00	03/30/18 09:55
7584752006	BH-2 (0-1)	Solid	03/27/18 11:15	03/30/18 09:55
7584752007	BH-2(1-2)	Solid	03/27/18 11:15	03/30/18 09:55
7584752008	BH-2(2-3)	Solid	03/27/18 11:15	03/30/18 09:55
7584752009	BH-2(3-4)	Solid	03/27/18 11:15	03/30/18 09:55
7584752010	BH-2(4-5)	Solid	03/27/18 11:15	03/30/18 09:55
7584752011	BH-2(5-6)	Solid	03/27/18 11:15	03/30/18 09:55
7584752012	BH-2(6-7)	Solid	03/27/18 11:15	03/30/18 09:55
7584752013	BH-2(7-8)	Solid	03/27/18 11:15	03/30/18 09:55
7584752014	BH-2(8-9)	Solid	03/27/18 11:15	03/30/18 09:55
7584752015	BH-2(9-10)	Solid	03/27/18 11:15	03/30/18 09:55
7584752016	BH-3 (0-1)	Solid	03/27/18 10:10	03/30/18 09:55
7584752017	BH-3(1-2)	Solid	03/27/18 10:10	03/30/18 09:55
7584752018	BH-3(2-3)	Solid	03/27/18 10:10	03/30/18 09:55
7584752019	BH-3(3-4)	Solid	03/27/18 10:10	03/30/18 09:55
7584752020	BH-3(4-5)	Solid	03/27/18 10:10	03/30/18 09:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Warren McKee

Pace Project No.: 7584752

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7584752001	BH-1 (0-1)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	LNF	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752002	BH-1(1-2)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		ASTM D2974-07	LNF	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752003	BH-1(2-3)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		ASTM D2974-07	LNF	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752004	BH-1(3-4)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
7584752005	BH-1(4-5)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
7584752006	BH-2 (0-1)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	LNF	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752007	BH-2(1-2)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		ASTM D2974-07	LNF	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752008	BH-2(2-3)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		ASTM D2974-07	LNF	1	PASI-D

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SAMPLE ANALYTE COUNT

Project: Warren McKee

Pace Project No.: 7584752

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	TMS	1	PASI-D
7584752009	BH-2(3-4)	EPA 8015B	JTK	2	PASI-K
7584752010	BH-2(4-5)	EPA 8015B	JTK	2	PASI-K
7584752011	BH-2(5-6)	EPA 8015B	JTK	2	PASI-K
7584752012	BH-2(6-7)	EPA 8015B	JTK	2	PASI-K
7584752013	BH-2(7-8)	EPA 8015B	JTK	2	PASI-K
7584752014	BH-2(8-9)	EPA 8015B	JTK	2	PASI-K
7584752015	BH-2(9-10)	EPA 8015B	JTK	2	PASI-K
7584752016	BH-3 (0-1)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	LNF	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752017	BH-3(1-2)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		ASTM D2974-07	TMS	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752018	BH-3(2-3)	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		ASTM D2974-07	TMS	1	PASI-D
		EPA 300.0	TMS	1	PASI-D
7584752019	BH-3(3-4)	EPA 8015B	JTK	2	PASI-K
7584752020	BH-3(4-5)	EPA 8015B	JTK	2	PASI-K

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-1 (0-1) **Lab ID: 7584752001** Collected: 03/27/18 13:00 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	3930	mg/kg	3290	200	04/02/18 17:30	04/04/18 08:42		M3
Surrogates								
a-Pinene (S)	67	%.	10-87	200	04/02/18 17:30	04/04/18 08:42		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	4660	mg/kg	3290	200	04/02/18 17:30	04/04/18 08:42		N2
Surrogates								
a-Pinene (S)	59	%.	10-107	200	04/02/18 17:30	04/04/18 08:42		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	33.2	mg/kg	10.0	1	04/04/18 00:00	04/04/18 14:41		
Surrogates								
4-Bromofluorobenzene (S)	108	%	72-117	1	04/04/18 00:00	04/04/18 14:41	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0033	1	04/02/18 13:00	04/02/18 20:16	71-43-2	
Ethylbenzene	ND	mg/kg	0.0033	1	04/02/18 13:00	04/02/18 20:16	100-41-4	
Toluene	ND	mg/kg	0.0033	1	04/02/18 13:00	04/02/18 20:16	108-88-3	
Xylene (Total)	0.021	mg/kg	0.0098	1	04/02/18 13:00	04/02/18 20:16	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	70-130	1	04/02/18 13:00	04/02/18 20:16	17060-07-0	1t
4-Bromofluorobenzene (S)	98	%.	70-130	1	04/02/18 13:00	04/02/18 20:16	460-00-4	
Toluene-d8 (S)	91	%.	70-130	1	04/02/18 13:00	04/02/18 20:16	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	9.0	%		1		04/02/18 18:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	140	mg/kg	113	10	04/04/18 11:54	04/05/18 03:25	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-1(1-2) **Lab ID:** 7584752002 Collected: 03/27/18 13:00 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	799	mg/kg	773	50	04/05/18 15:30	04/07/18 05:04		
Surrogates								
a-Pinene (S)	56	%	10-87	50	04/05/18 15:30	04/07/18 05:04		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	1270	mg/kg	773	50	04/05/18 15:30	04/07/18 05:04		N2
Surrogates								
a-Pinene (S)	106	%	10-107	50	04/05/18 15:30	04/07/18 05:04		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	9.9	1	04/05/18 00:00	04/06/18 21:26		
Surrogates								
4-Bromofluorobenzene (S)	107	%	72-117	1	04/05/18 00:00	04/06/18 21:26	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-07								
Percent Moisture	3.1	%		1		04/02/18 18:00		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	74.8	mg/kg	10.4	1	04/04/18 11:54	04/05/18 13:24	16887-00-6	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-1(2-3) **Lab ID:** 7584752003 Collected: 03/27/18 13:00 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	559	mg/kg	322	20	04/09/18 16:45	04/10/18 18:26		
Surrogates								
a-Pinene (S)	57	%	10-87	20	04/09/18 16:45	04/10/18 18:26		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	868	mg/kg	322	20	04/09/18 16:45	04/10/18 18:26		2t,N2
Surrogates								
a-Pinene (S)	108	%	10-107	20	04/09/18 16:45	04/10/18 18:26		S2
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10	1	04/09/18 00:00	04/09/18 18:59		
Surrogates								
4-Bromofluorobenzene (S)	115	%	72-117	1	04/09/18 00:00	04/09/18 18:59	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-07								
Percent Moisture	7.7	%		1		04/02/18 18:00		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	165	mg/kg	105	10	04/04/18 11:54	04/05/18 05:12	16887-00-6	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-1(3-4) **Lab ID:** 7584752004 Collected: 03/27/18 13:00 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	233	mg/kg	150	10	04/09/18 16:45	04/14/18 10:48		
Surrogates								
a-Pinene (S)	43	%	10-87	10	04/09/18 16:45	04/14/18 10:48		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	409	mg/kg	150	10	04/09/18 16:45	04/14/18 10:48		2t,N2
Surrogates								
a-Pinene (S)	81	%	10-107	10	04/09/18 16:45	04/14/18 10:48		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.1	1	04/09/18 00:00	04/09/18 19:45		
Surrogates								
4-Bromofluorobenzene (S)	117	%	72-117	1	04/09/18 00:00	04/09/18 19:45	460-00-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-1(4-5) **Lab ID:** 7584752005 **Collected:** 03/27/18 13:00 **Received:** 03/30/18 09:55 **Matrix:** Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	ND	mg/kg	150	10	04/09/18 16:45	04/14/18 11:14		D3
Surrogates								
a-Pinene (S)	27	%	10-87	10	04/09/18 16:45	04/14/18 11:14		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	217	mg/kg	150	10	04/09/18 16:45	04/14/18 11:14		2t,N2
Surrogates								
a-Pinene (S)	51	%	10-107	10	04/09/18 16:45	04/14/18 11:14		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10	1	04/09/18 00:00	04/09/18 20:00		
Surrogates								
4-Bromofluorobenzene (S)	111	%	72-117	1	04/09/18 00:00	04/09/18 20:00	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2 (0-1) **Lab ID: 7584752006** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	35300	mg/kg	30400	200	04/02/18 17:30	04/04/18 10:36		
Surrogates								
a-Pinene (S)	153	%.	10-87	200	04/02/18 17:30	04/04/18 10:36		S2
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	40600	mg/kg	30400	200	04/02/18 17:30	04/04/18 10:36		M3,N2
Surrogates								
a-Pinene (S)	434	%.	10-107	200	04/02/18 17:30	04/04/18 10:36		S2
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.1	1	04/04/18 00:00	04/04/18 14:57		
Surrogates								
4-Bromofluorobenzene (S)	114	%	72-117	1	04/04/18 00:00	04/04/18 14:57	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0017	1	04/02/18 13:00	04/03/18 14:25	71-43-2	
Ethylbenzene	ND	mg/kg	0.0017	1	04/02/18 13:00	04/03/18 14:25	100-41-4	
Toluene	ND	mg/kg	0.0017	1	04/02/18 13:00	04/03/18 14:25	108-88-3	
Xylene (Total)	ND	mg/kg	0.0052	1	04/02/18 13:00	04/03/18 14:25	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	119	%.	70-130	1	04/02/18 13:00	04/03/18 14:25	17060-07-0	1t
4-Bromofluorobenzene (S)	95	%.	70-130	1	04/02/18 13:00	04/03/18 14:25	460-00-4	
Toluene-d8 (S)	90	%.	70-130	1	04/02/18 13:00	04/03/18 14:25	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	1.4	%		1		04/02/18 18:00		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	182	mg/kg	103	10	04/04/18 11:54	04/05/18 05:30	16887-00-6	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(1-2) **Lab ID: 7584752007** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	1310	mg/kg	772	50	04/05/18 15:30	04/07/18 03:18		M3
Surrogates								
a-Pinene (S)	53	%	10-87	50	04/05/18 15:30	04/07/18 03:18		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	1240	mg/kg	772	50	04/05/18 15:30	04/07/18 03:18		N2
Surrogates								
a-Pinene (S)	100	%	10-107	50	04/05/18 15:30	04/07/18 03:18		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.0	1	04/05/18 00:00	04/06/18 21:42		
Surrogates								
4-Bromofluorobenzene (S)	103	%	72-117	1	04/05/18 00:00	04/06/18 21:42	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-07								
Percent Moisture	3.0	%		1		04/02/18 18:01		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	ND	mg/kg	10.5	1	04/04/18 11:54	04/05/18 14:35	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(2-3) **Lab ID:** 7584752008 Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	143	mg/kg	77.3	5	04/09/18 16:45	04/10/18 15:21		
Surrogates								
a-Pinene (S)	32	%	10-87	5	04/09/18 16:45	04/10/18 15:21		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	180	mg/kg	77.3	5	04/09/18 16:45	04/10/18 15:21		2t,N2
Surrogates								
a-Pinene (S)	60	%	10-107	5	04/09/18 16:45	04/10/18 15:21		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10	1	04/09/18 00:00	04/09/18 20:16		
Surrogates								
4-Bromofluorobenzene (S)	99	%	72-117	1	04/09/18 00:00	04/09/18 20:16	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-07								
Percent Moisture	3.3	%		1		04/02/18 18:01		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	ND	mg/kg	10.3	1	04/04/18 11:54	04/05/18 14:53	16887-00-6	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(3-4) **Lab ID: 7584752009** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	10.1	1	04/09/18 00:00	04/09/18 20:32		
Surrogates								
4-Bromofluorobenzene (S)	110	%	72-117	1	04/09/18 00:00	04/09/18 20:32	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(4-5) **Lab ID: 7584752010** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	9.9	1	04/09/18 00:00	04/09/18 20:47		
Surrogates								
4-Bromofluorobenzene (S)	108	%	72-117	1	04/09/18 00:00	04/09/18 20:47	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(5-6) **Lab ID: 7584752011** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	10	1	04/09/18 00:00	04/09/18 21:34		
Surrogates								
4-Bromofluorobenzene (S)	103	%	72-117	1	04/09/18 00:00	04/09/18 21:34	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(6-7) **Lab ID: 7584752012** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	10.0	1	04/09/18 00:00	04/09/18 21:50		
Surrogates								
4-Bromofluorobenzene (S)	102	%	72-117	1	04/09/18 00:00	04/09/18 21:50	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(7-8) **Lab ID: 7584752013** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	10	1	04/09/18 00:00	04/09/18 22:06		
Surrogates								
4-Bromofluorobenzene (S)	107	%	72-117	1	04/09/18 00:00	04/09/18 22:06	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(8-9) **Lab ID: 7584752014** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	9.9	1	04/09/18 00:00	04/09/18 22:22		
Surrogates								
4-Bromofluorobenzene (S)	110	%	72-117	1	04/09/18 00:00	04/09/18 22:22	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-2(9-10) **Lab ID: 7584752015** Collected: 03/27/18 11:15 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	10.1	1	04/09/18 00:00	04/09/18 22:37		
Surrogates								
4-Bromofluorobenzene (S)	108	%	72-117	1	04/09/18 00:00	04/09/18 22:37	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-3 (0-1) **Lab ID: 7584752016** Collected: 03/27/18 10:10 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	6560	mg/kg	1670	100	04/02/18 17:30	04/04/18 10:00		
Surrogates								
a-Pinene (S)	30	%	10-87	100	04/02/18 17:30	04/04/18 10:00		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	6670	mg/kg	1670	100	04/02/18 17:30	04/04/18 10:00		N2
Surrogates								
a-Pinene (S)	57	%	10-107	100	04/02/18 17:30	04/04/18 10:00		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.0	1	04/04/18 00:00	04/04/18 15:12		
Surrogates								
4-Bromofluorobenzene (S)	113	%	72-117	1	04/04/18 00:00	04/04/18 15:12	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0019	1	04/02/18 13:00	04/03/18 14:48	71-43-2	
Ethylbenzene	ND	mg/kg	0.0019	1	04/02/18 13:00	04/03/18 14:48	100-41-4	
Toluene	ND	mg/kg	0.0019	1	04/02/18 13:00	04/03/18 14:48	108-88-3	
Xylene (Total)	ND	mg/kg	0.0058	1	04/02/18 13:00	04/03/18 14:48	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%	70-130	1	04/02/18 13:00	04/03/18 14:48	17060-07-0	1t
4-Bromofluorobenzene (S)	94	%	70-130	1	04/02/18 13:00	04/03/18 14:48	460-00-4	
Toluene-d8 (S)	87	%	70-130	1	04/02/18 13:00	04/03/18 14:48	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	10.7	%		1		04/02/18 18:01		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	17.6	mg/kg	11.5	1	04/04/18 11:54	04/05/18 15:11	16887-00-6	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-3(1-2) **Lab ID: 7584752017** Collected: 03/27/18 10:10 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	2190	mg/kg	770	50	04/05/18 15:30	04/07/18 06:49		
Surrogates								
a-Pinene (S)	54	%	10-87	50	04/05/18 15:30	04/07/18 06:49		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	2260	mg/kg	770	50	04/05/18 15:30	04/07/18 06:49		N2
Surrogates								
a-Pinene (S)	103	%	10-107	50	04/05/18 15:30	04/07/18 06:49		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10	1	04/05/18 00:00	04/06/18 21:58		
Surrogates								
4-Bromofluorobenzene (S)	103	%	72-117	1	04/05/18 00:00	04/06/18 21:58	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-07								
Percent Moisture	3.1	%		1		04/02/18 20:10		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	ND	mg/kg	10.3	1	04/04/18 11:54	04/05/18 15:29	16887-00-6	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-3(2-3) **Lab ID:** 7584752018 **Collected:** 03/27/18 10:10 **Received:** 03/30/18 09:55 **Matrix:** Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 3546								
Diesel Range Organics	185	mg/kg	76.9	5	04/09/18 16:45	04/10/18 15:48		
Surrogates								
a-Pinene (S)	25	%	10-87	5	04/09/18 16:45	04/10/18 15:48		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	203	mg/kg	76.9	5	04/09/18 16:45	04/10/18 15:48		2t,N2
Surrogates								
a-Pinene (S)	48	%	10-107	5	04/09/18 16:45	04/10/18 15:48		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10	1	04/09/18 00:00	04/09/18 22:52		
Surrogates								
4-Bromofluorobenzene (S)	103	%	72-117	1	04/09/18 00:00	04/09/18 22:52	460-00-4	
Percent Moisture								
Analytical Method: ASTM D2974-07								
Percent Moisture	3.7	%		1		04/02/18 20:10		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	ND	mg/kg	10.7	1	04/04/18 11:54	04/05/18 20:39	16887-00-6	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-3(3-4) **Lab ID: 7584752019** Collected: 03/27/18 10:10 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	10	1	04/09/18 00:00	04/09/18 23:08		
Surrogates								
4-Bromofluorobenzene (S)	102	%	72-117	1	04/09/18 00:00	04/09/18 23:08	460-00-4	

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ANALYTICAL RESULTS

Project: Warren McKee

Pace Project No.: 7584752

Sample: BH-3(4-5) **Lab ID: 7584752020** Collected: 03/27/18 10:10 Received: 03/30/18 09:55 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Gasoline Range Organics		Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B						
TPH-GRO	ND	mg/kg	10.0	1	04/09/18 00:00	04/09/18 23:25		
Surrogates								
4-Bromofluorobenzene (S)	116	%	72-117	1	04/09/18 00:00	04/09/18 23:25	460-00-4	

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch:	520439	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	7584752001, 7584752006, 7584752016		

METHOD BLANK: 2130117 Matrix: Solid

Associated Lab Samples: 7584752001, 7584752006, 7584752016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	04/04/18 11:17	
4-Bromofluorobenzene (S)	%	105	72-117	04/04/18 11:17	

LABORATORY CONTROL SAMPLE: 2130118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	54.8	110	85-129	
4-Bromofluorobenzene (S)	%			161	72-117	S0

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2130119 2130120

Parameter	Units	7584780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	502	291	58.3	814	175	107	-561	81-127	129	10	M1,R1
4-Bromofluorobenzene (S)	%						118	139	72-117			S0

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch:	520693	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	7584752002, 7584752007, 7584752017		

METHOD BLANK: 2131167 Matrix: Solid

Associated Lab Samples: 7584752002, 7584752007, 7584752017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	04/06/18 18:32	
4-Bromofluorobenzene (S)	%	95	72-117	04/06/18 18:32	

LABORATORY CONTROL SAMPLE: 2131168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	54.7	109	85-129	
4-Bromofluorobenzene (S)	%			103	72-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2131169 2131170

Parameter	Units	7584780002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	40.9	62.3	62.3	120	124	127	134	81-127	3	10	M1
4-Bromofluorobenzene (S)	%						107	104	72-117			

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch:	521089	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	7584752003, 7584752004, 7584752005, 7584752008, 7584752009, 7584752010, 7584752011, 7584752012, 7584752013, 7584752014, 7584752015, 7584752018, 7584752019, 7584752020		

METHOD BLANK:	2133039	Matrix:	Solid
Associated Lab Samples:	7584752003, 7584752004, 7584752005, 7584752008, 7584752009, 7584752010, 7584752011, 7584752012, 7584752013, 7584752014, 7584752015, 7584752018, 7584752019, 7584752020		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	04/09/18 16:20	
4-Bromofluorobenzene (S)	%	101	72-117	04/09/18 16:20	

LABORATORY CONTROL SAMPLE: 2133040						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	54.7	109	85-129	
4-Bromofluorobenzene (S)	%			110	72-117	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE:			2133041		2133042							
Parameter	Units	7584752003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	50	50	58.9	55.5	116	110	81-127	6	10	
4-Bromofluorobenzene (S)	%						116	112	72-117			

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch:	95193	Analysis Method:	EPA 8260
QC Batch Method:	EPA 5030 Low	Analysis Description:	8260 MSV Soil Low Level
Associated Lab Samples:	7584752001, 7584752006, 7584752016		

METHOD BLANK: 423451 Matrix: Solid

Associated Lab Samples: 7584752001, 7584752006, 7584752016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	04/02/18 14:03	
Ethylbenzene	mg/kg	ND	0.0020	04/02/18 14:03	
Toluene	mg/kg	ND	0.0020	04/02/18 14:03	
Xylene (Total)	mg/kg	ND	0.0060	04/02/18 14:03	
1,2-Dichloroethane-d4 (S)	%.	114	70-130	04/02/18 14:03	
4-Bromofluorobenzene (S)	%.	90	70-130	04/02/18 14:03	
Toluene-d8 (S)	%.	89	70-130	04/02/18 14:03	

LABORATORY CONTROL SAMPLE: 423452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.022	111	74-130	
Ethylbenzene	mg/kg	.02	0.020	101	77-127	
Toluene	mg/kg	.02	0.019	95	74-127	
Xylene (Total)	mg/kg	.06	0.060	100	74-128	
1,2-Dichloroethane-d4 (S)	%.			110	70-130	
4-Bromofluorobenzene (S)	%.			92	70-130	
Toluene-d8 (S)	%.			90	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 423453 423454

Parameter	Units	7584752001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Benzene	mg/kg	ND	1.1	1.1	1.3	1.3	122	121	32-152	1	20	
Ethylbenzene	mg/kg	ND	1.1	1.1	1.3	1.2	119	113	18-166	6	20	
Toluene	mg/kg	ND	1.1	1.1	1.2	1.1	108	105	18-166	3	20	
Xylene (Total)	mg/kg	0.021	3.3	3.3	4.3	4.0	130	120	10-172	8	20	
1,2-Dichloroethane-d4 (S)	%.						99	101	70-130			
4-Bromofluorobenzene (S)	%.						97	100	70-130			
Toluene-d8 (S)	%.						91	91	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch: 95252 Analysis Method: EPA 8015B

QC Batch Method: EPA 3546 Analysis Description: EPA 8015B

Associated Lab Samples: 7584752001, 7584752006, 7584752016

METHOD BLANK: 423609

Matrix: Solid

Associated Lab Samples: 7584752001, 7584752006, 7584752016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10	04/04/18 07:20	
a-Pinene (S)	%.	19	10-87	04/04/18 07:20	

LABORATORY CONTROL SAMPLE: 423610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.2	23.1	70	42-124	
a-Pinene (S)	%.			21	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 423611

423612

Parameter	Units	7584752001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics	mg/kg	3930	10900	11000	3620	3920	-3	0	10-172	8	20	M3
a-Pinene (S)	%.						28	23	10-87			

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch: 95438 Analysis Method: EPA 8015B

QC Batch Method: EPA 3546 Analysis Description: EPA 8015B

Associated Lab Samples: 7584752002, 7584752007, 7584752017

METHOD BLANK: 424534 Matrix: Solid

Associated Lab Samples: 7584752002, 7584752007, 7584752017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	10	04/07/18 01:33	
a-Pinene (S)	%.	24	10-87	04/07/18 01:33	

LABORATORY CONTROL SAMPLE: 424535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.3	22.9	69	42-124	
a-Pinene (S)	%.			15	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 424536 424537

Parameter	Units	7584752007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics	mg/kg	1310	51.3	51.4	1460	1430	279	226	10-172	2	20	M3
a-Pinene (S)	%.						43	51	10-87			

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch: 95587 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7584752003, 7584752004, 7584752005, 7584752008, 7584752018

METHOD BLANK: 425324 Matrix: Solid
Associated Lab Samples: 7584752003, 7584752004, 7584752005, 7584752008, 7584752018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	9.9	04/10/18 16:14	
a-Pinene (S)	%.	23	10-87	04/10/18 16:14	

LABORATORY CONTROL SAMPLE: 425325

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.2	23.5	71	42-124	
a-Pinene (S)	%.			25	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 425326 425327

Parameter	Units	7584780008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Range Organics	mg/kg	227	380	379	537	380	81	40	10-172	34	20	R1
a-Pinene (S)	%.						27	29	10-87			

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch: 95253 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7584752001, 7584752006, 7584752016

METHOD BLANK: 423614 Matrix: Solid

Associated Lab Samples: 7584752001, 7584752006, 7584752016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	10	04/04/18 06:54	3t,N2
a-Pinene (S)	%.	39	10-107	04/04/18 06:54	

LABORATORY CONTROL SAMPLE: 423615

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.2	24.4	74	56-130	N2
a-Pinene (S)	%.			42	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 423616 423617

Parameter	Units	7584752006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Oil Range Organics	mg/kg	40600	10100	10100	32300	33200	-82	-73	10-159	3	40	3t,M3,N2
a-Pinene (S)	%.						891	864	10-107			S2

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch: 95439 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7584752002, 7584752007, 7584752017

METHOD BLANK: 424538 Matrix: Solid

Associated Lab Samples: 7584752002, 7584752007, 7584752017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	10	04/07/18 01:33	N2
a-Pinene (S)	%.	45	10-107	04/07/18 01:33	

LABORATORY CONTROL SAMPLE: 424539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.3	25.8	77	56-130	N2
a-Pinene (S)	%.			45	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 424540 424541

Parameter	Units	7584752002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Oil Range Organics	mg/kg	1270	51.6	51.5	1290	1340	54	147	10-159	4	40	N2
a-Pinene (S)	%.						101	83	10-107			

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch: 95588 Analysis Method: EPA 8015B Modified

QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO

Associated Lab Samples: 7584752003, 7584752004, 7584752005, 7584752008, 7584752018

METHOD BLANK: 425328

Matrix: Solid

Associated Lab Samples: 7584752003, 7584752004, 7584752005, 7584752008, 7584752018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	9.9	04/10/18 16:14	N2
a-Pinene (S)	%.	43	10-107	04/10/18 16:14	

LABORATORY CONTROL SAMPLE: 425329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.1	11.5	35	56-130	2t,N2
a-Pinene (S)	%.			87	10-107	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 425330 425331

Parameter	Units	7584780035 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Oil Range Organics	mg/kg	4470	5490	5470	5180	5410	13	17	10-159	4	40	2t,N2
a-Pinene (S)	%.						154	148	10-107			S2

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch:	95199	Analysis Method:	ASTM D2974-07
QC Batch Method:	ASTM D2974-07	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	7584752001, 7584752002, 7584752003, 7584752006, 7584752007, 7584752008, 7584752016		

SAMPLE DUPLICATE: 423464

Parameter	Units	7584399002 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.8	14.3	4	20	

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QUALITY CONTROL DATA

Project: Warren McKee

Pace Project No.: 7584752

QC Batch: 95201

Analysis Method: ASTM D2974-07

QC Batch Method: ASTM D2974-07

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 7584752017, 7584752018

SAMPLE DUPLICATE: 423468

Parameter	Units	7584752017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.1	3.2	0	20	

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QUALITY CONTROL DATA

Project: Warren McKee
Pace Project No.: 7584752

QC Batch: 95310 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7584752001, 7584752002, 7584752003, 7584752006, 7584752007, 7584752008, 7584752016, 7584752017, 7584752018

METHOD BLANK: 423885 Matrix: Solid
Associated Lab Samples: 7584752001, 7584752002, 7584752003, 7584752006, 7584752007, 7584752008, 7584752016, 7584752017, 7584752018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	10.0	04/05/18 02:49	

LABORATORY CONTROL SAMPLE: 423886

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	50	46.7	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 423887 423888

Parameter	Units	7584752001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	140	567	567	661	664	92	92	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 423889 423890

Parameter	Units	7584752002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	74.8	51.8	51.8	122	121	92	89	90-110	1	20 M1	

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QUALIFIERS

Project: Warren McKee
Pace Project No.: 7584752

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
 ND - Not Detected at or above adjusted reporting limit.
 TNTC - Too Numerous To Count
 J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
 MDL - Adjusted Method Detection Limit.
 PQL - Practical Quantitation Limit.
 RL - Reporting Limit.
 S - Surrogate
 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
 Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
 LCS(D) - Laboratory Control Sample (Duplicate)
 MS(D) - Matrix Spike (Duplicate)
 DUP - Sample Duplicate
 RPD - Relative Percent Difference
 NC - Not Calculable.
 SG - Silica Gel - Clean-Up
 U - Indicates the compound was analyzed for, but not detected.
 N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
 Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
 TNI - The Nelac Institute

LABORATORIES

PASI-D Pace Analytical Services - Dallas
 PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

1t Sample not collected according to EPA Method 5035A low level specifications. Results may be biased low.
 2t The LCS was not spiked due to laboratory error. See case narrative for details.
 3t The ending continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
 D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
 M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
 M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.
 N2 The lab does not hold NELAC/TNI accreditation for this parameter.
 R1 RPD value was outside control limits.
 S0 Surrogate recovery outside laboratory control limits.
 S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Warren McKee

Pace Project No.: 7584752

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7584752001	BH-1 (0-1)	EPA 3546	95252	EPA 8015B	95294
7584752002	BH-1(1-2)	EPA 3546	95438	EPA 8015B	95560
7584752003	BH-1(2-3)	EPA 3546	95587	EPA 8015B	95649
7584752004	BH-1(3-4)	EPA 3546	95587	EPA 8015B	95649
7584752005	BH-1(4-5)	EPA 3546	95587	EPA 8015B	95649
7584752006	BH-2 (0-1)	EPA 3546	95252	EPA 8015B	95294
7584752007	BH-2(1-2)	EPA 3546	95438	EPA 8015B	95560
7584752008	BH-2(2-3)	EPA 3546	95587	EPA 8015B	95649
7584752016	BH-3 (0-1)	EPA 3546	95252	EPA 8015B	95294
7584752017	BH-3(1-2)	EPA 3546	95438	EPA 8015B	95560
7584752018	BH-3(2-3)	EPA 3546	95587	EPA 8015B	95649
7584752001	BH-1 (0-1)	EPA 3546	95253	EPA 8015B Modified	95295
7584752002	BH-1(1-2)	EPA 3546	95439	EPA 8015B Modified	95561
7584752003	BH-1(2-3)	EPA 3546	95588	EPA 8015B Modified	95650
7584752004	BH-1(3-4)	EPA 3546	95588	EPA 8015B Modified	95650
7584752005	BH-1(4-5)	EPA 3546	95588	EPA 8015B Modified	95650
7584752006	BH-2 (0-1)	EPA 3546	95253	EPA 8015B Modified	95295
7584752007	BH-2(1-2)	EPA 3546	95439	EPA 8015B Modified	95561
7584752008	BH-2(2-3)	EPA 3546	95588	EPA 8015B Modified	95650
7584752016	BH-3 (0-1)	EPA 3546	95253	EPA 8015B Modified	95295
7584752017	BH-3(1-2)	EPA 3546	95439	EPA 8015B Modified	95561
7584752018	BH-3(2-3)	EPA 3546	95588	EPA 8015B Modified	95650
7584752001	BH-1 (0-1)	EPA 5035A/5030B	520439	EPA 8015B	520527
7584752002	BH-1(1-2)	EPA 5035A/5030B	520693	EPA 8015B	521036
7584752003	BH-1(2-3)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752004	BH-1(3-4)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752005	BH-1(4-5)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752006	BH-2 (0-1)	EPA 5035A/5030B	520439	EPA 8015B	520527
7584752007	BH-2(1-2)	EPA 5035A/5030B	520693	EPA 8015B	521036
7584752008	BH-2(2-3)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752009	BH-2(3-4)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752010	BH-2(4-5)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752011	BH-2(5-6)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752012	BH-2(6-7)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752013	BH-2(7-8)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752014	BH-2(8-9)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752015	BH-2(9-10)	EPA 5035A/5030B	521089	EPA 8015B	521233

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Warren McKee

Pace Project No.: 7584752

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7584752016	BH-3 (0-1)	EPA 5035A/5030B	520439	EPA 8015B	520527
7584752017	BH-3(1-2)	EPA 5035A/5030B	520693	EPA 8015B	521036
7584752018	BH-3(2-3)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752019	BH-3(3-4)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752020	BH-3(4-5)	EPA 5035A/5030B	521089	EPA 8015B	521233
7584752001	BH-1 (0-1)	EPA 5030 Low	95193	EPA 8260	95195
7584752006	BH-2 (0-1)	EPA 5030 Low	95193	EPA 8260	95195
7584752016	BH-3 (0-1)	EPA 5030 Low	95193	EPA 8260	95195
7584752001	BH-1 (0-1)	ASTM D2974-07	95199		
7584752002	BH-1(1-2)	ASTM D2974-07	95199		
7584752003	BH-1(2-3)	ASTM D2974-07	95199		
7584752006	BH-2 (0-1)	ASTM D2974-07	95199		
7584752007	BH-2(1-2)	ASTM D2974-07	95199		
7584752008	BH-2(2-3)	ASTM D2974-07	95199		
7584752016	BH-3 (0-1)	ASTM D2974-07	95199		
7584752017	BH-3(1-2)	ASTM D2974-07	95201		
7584752018	BH-3(2-3)	ASTM D2974-07	95201		
7584752001	BH-1 (0-1)	EPA 300.0	95310	EPA 300.0	95380
7584752002	BH-1(1-2)	EPA 300.0	95310	EPA 300.0	95380
7584752003	BH-1(2-3)	EPA 300.0	95310	EPA 300.0	95380
7584752006	BH-2 (0-1)	EPA 300.0	95310	EPA 300.0	95380
7584752007	BH-2(1-2)	EPA 300.0	95310	EPA 300.0	95380
7584752008	BH-2(2-3)	EPA 300.0	95310	EPA 300.0	95380
7584752016	BH-3 (0-1)	EPA 300.0	95310	EPA 300.0	95380
7584752017	BH-3(1-2)	EPA 300.0	95310	EPA 300.0	95380
7584752018	BH-3(2-3)	EPA 300.0	95310	EPA 300.0	95380

REPORT OF LABORATORY ANALYSIS

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	Document Name: Sample Condition Upon Receipt	Document Revised: 2/28/18 Page 1 of 1
	Document No.: F-DAL-C-001-rev.08	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☒ Dallas ☐ Ft Worth

WO#: 7584752



7584752

Client Name: Tetco Tech Project Work order: _____

Courier: FedEx ☐ UPS ☐ USPS ☐ Client ☐ LSO ☐ PACE ☐ Other: _____

Tracking #: 4286 7010 8321

Custody Seal on Cooler/Box: Yes ☒ No ☐ Seals Intact: Yes ☒ No ☐ NA ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: 104 Type of Ice: Wet ☒ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☒

Cooler Temp °C: -0.2 (Recorded) 0 (Correction Factor) -0.2 (Actual) ☐ (Thermal preservation not required)

Temp should be above freezing to 6°C

Chain of Custody Present	Yes ☒ No ☐	1
Chain of Custody filled out	Yes ☒ No ☐	2
Chain of Custody relinquished	Yes ☒ No ☐	3
Sampler name & signature on COC	Yes ☐ No ☒	4
Sample received within HT	Yes ☒ No ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☒	6
Rush TAT requested	Yes ☐ No ☒	7
Sufficient Volume received	Yes ☒ No ☐	8
Correct Container used	Yes ☒ No ☐	9
Pace Container used	Yes ☒ No ☐	
Container Intact	Yes ☒ No ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☒ NA ☐	11 <u>Not received within 48 hrs</u>
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☒	12
Sample labels match COC	Yes ☒ No ☐	13
Include date/time/ID/analyses Matrix: <u>Solid</u>		
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☒	14a. pH Strip Lot #: _____
All found to be in Compliance with EPA recommendation (includes residual chlorine checks)	Yes ☐ No ☐ NA ☒	Original pH: pH<2 ☐ pH>9 ☐ pH>12 ☐ Neutral ☐
Exception: VOA, coliform, O&G	Yes ☐ No ☒	Lot# of Iodine strip: _____
Do containers require preservation at the lab	Yes ☐ No ☒	Lot# of Lead Acetate strip: _____
		14b. Preservation: _____ Lot# and adjusted pH: pH<2 ☐ pH>9 ☐ pH>12 ☐
Are soil samples (volatiles) received in Bulk ☒ Terracore ☐ EnCore ☐ NA ☐		15.
Trip Blank present	Yes ☐ No ☒ NA ☐	16.
Trip Blank Custody Seals Intact	Yes ☐ No ☐ NA ☒	
Pace Trip Blank Lot# (if purchased):		
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☒	18. List State <u>NM</u>

Triage Person: mm Date: 3/30/18 Login Person: mm Date: 3/30/18 Labeling Person: mm Date: 3-4-18

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____

Comments/Resolution: _____

Project Manager Review: mm

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[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
Run Deeper Samples if	Climb North	3/27	18:30	Kayla Sawyer	3-27-18	18:30		
TPH exceeds 5000 ppm.	Kayla Sawyer	3-27-18	16:00	Barbara Castillo Pace	3/28/18	15:55	-0.2	Y
Run deeper Samples if								Y
benzene exceeds								
10 mg/kg & total BTEX								
exceeds 50 mg/kg								

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

TEMP in C

Received on

Ice (Y/N)

Custody Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)

DATE Signed:

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Sample Condition Upon Receipt

WO# : 60267245



Client Name: PAK - Dallas

Courier: FedEx ☒ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☐ Other ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☐

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: 266 Type of Ice: Wet Blue ☐ None ☐

Cooler Temperature (°C): As-read 0.3 Corr. Factor +0.2 Corrected 0.5

Date and initials of person examining contents: 4/3/18

Temperature should be above freezing to 6°C

Chain of Custody present:	☒ Yes ☐ No ☐ N/A	
Chain of Custody relinquished:	☒ Yes ☐ No ☐ N/A	
Samples arrived within holding time:	☒ Yes ☐ No ☐ N/A	
Short Hold Time analyses (<72hr):	☐ Yes ☒ No ☐ N/A	
Rush Turn Around Time requested:	☒ Yes ☐ No ☐ N/A	<u>'ASAP'</u>
Sufficient volume:	☒ Yes ☐ No ☐ N/A	<u>Received samples 001 - 020</u>
Correct containers used:	☒ Yes ☐ No ☐ N/A	
Pace containers used:	☒ Yes ☐ No ☐ N/A	
Containers intact:	☒ Yes ☐ No ☐ N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	☐ Yes ☐ No ☒ N/A	
Filtered volume received for dissolved tests?	☐ Yes ☐ No ☒ N/A	
Sample labels match COC: Date / time / ID / analyses	☒ Yes ☐ No ☐ N/A	
Samples contain multiple phases? Matrix: <u>SL</u>	☐ Yes ☒ No ☐ N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	☐ Yes ☐ No ☒ N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	☐ Yes ☐ No	
Potassium iodide test strip turns blue/purple? (Preserve)	☐ Yes ☐ No	
Trip Blank present:	☐ Yes ☒ No ☐ N/A	
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☒ N/A	
Samples from USDA Regulated Area: State: <u>NM</u>	☐ Yes ☒ No ☐ N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐ Yes ☐ No ☒ N/A	

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: HWK

Date: 4/3/2018

Pace Analytical
www.pacelabs.com
ASAP

Samples were sent directly to the Subcontracting Laboratory.

Workorder: 7584752
Workorder Name: Warren McKee
Owner Received Date: 3/30/2018
Results Requested By: 4/6/2018

Report To	Subcontract To	Requested Analysis
Melissa McCullough Pace Analytical Dallas 400 West Bethany Drive Suite 190 Allen, TX 75013 Phone (972)727-1123	Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone (913)599-5665	5108

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers		LAB USE ONLY
						Unpreserved		
1	BH-1 (0-1)	PS	3/27/2018 13:00	7584752001	Solid	1		
2	BH-2 (0-1)	PS	3/27/2018 11:15	7584752006	Solid	1		
3	BH-3 (0-1)	PS	3/27/2018 10:10	7584752016	Solid	1		
4								
5								

Transfers				Released By		Received By		Comments	
				Date/Time	Date/Time				
1				4-2-18 1700					
2									
3									

Cooler Temperature on Receipt	0.5 °C	Custody Seal	or N	Received on Ice	or N	Samples Intact	or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.