SITE INFORMATION

Report Type: Work Plan 1RP-4716

General Site Information:						
Site:	**EVGSAU Satellite 3 Trunk Line**					
Company:	**ConocoPhillips**					
Section, Township and Range	**Unit I**	**Sec. 32**	**T 17S**	**R 35E**		
Lease Number:	**API No. 30-025-02964**					
County:	**Lea**					
Release GPS:	**32.7896118°N**			**103.4734192°W**		
Surface Owner:	State					
Mineral Owner:						
Directions:	From the intersection of HWY 238 and Buckeye Road in Buckeye, travel east 1.7 miles. Turn right (south) and travel 0.6 miles. Site is located to your right.					

Release Data:	
Date Released:	6/2/2017
Type Release:	Oil and Produced Water
Source of Contamination:	Failed fiberglass pipeline
Fluid Released:	30 bbls of oil / 100 bbls of produced water
Fluids Recovered:	25 bbls oil/ 30 bbls produced water

Official Communication:			
Name:	Neal Goates		Greg 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@tetratech.com

Ranking Criteria		
Depth to Groundwater:	***Ranking Score***	***Site Data***
<50 ft	20	
50-99 ft	***10***	85'
>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

APPROVED

TETRA TECH

March 20, 2018

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, EVGSAU Satellite 3, Section 32, Township 17S, Range 35E, Lea County, New Mexico.
1RP-4716.

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (ConocoPhillips) to assess a release that occurred at the EVGSAU Satellite 3 located in Section 32, Township 17 South, Range 35 East, Lea County, New Mexico (site). The site is located approximately 12 miles southwest of the town of Lovington and 21 miles northwest of Hobbs in southeastern Lea County. The spill site coordinates are N 32.7896118º, W 103.4734192º. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on June 2, 2017, and released thirty (30) barrels of oil and one hundred (100) barrels of produced water due to a failed fiberglass line. Emergency response action included isolating the line and using a vacuum truck to remove all freestanding fluids. As a result, approximately twenty-five (25) barrels of oil and thirty (30) barrels of produced water were recovered, leaving approximately seventy-five (75) barrels of fluids unrecovered. A copy of the Initial C-141 form is included in Appendix A.

Groundwater

According to New Mexico Office of State Engineer's (NMOSE) Water Rights Reporting System, there is one (1) water well located within Section 32 with a reported depth to groundwater of 85 feet below ground surface. The water well is located approximately 1,300 feet southwest of the site. Additionally, the USGS National Water Information System lists a well in Section 32, approximately 2,700 feet north of the site, with a reported depth to groundwater of 85 feet below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to water in the area is between 50 and 75 feet below surface. The NMOSE and USGS groundwater data is included in Appendix B.

Tetra Tech
4000 North Big Spring, Suite 401, Midland, TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

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 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 xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment and Analytical Results

On August 2, 2017, Tetra Tech personnel were onsite to install a total of nine (9) soil borings (SB-1 through SB-9) to approximately fifteen (15) feet below ground surface to assess and define the extents of the release. Soil samples were collected and field screened for chlorides, as well as organic vapors using a PID. Selected samples were analyzed for TPH by EPA method 8015B modified, BTEX by EPA Method 8260 and for chloride by EPA method 300.0. The laboratory results are summarized in Table 1. A copy of the laboratory analytical report and chain-of-custody documentation is included in Appendix C. The soil boring locations are shown in Figure 3.

During the installation of the soil borings, a dense formation consisting of caliche and limestone was encountered in the shallow soils. Much of the area consists of between 2" and 6" of topsoil, underlain by the dense caliche and limestone formation. Due to the dense formation, discrete samples could not be obtained and soil cutting samples were collected during the investigation.

Referring to Table 1, none of the samples analyzed showed benzene or total BTEX concentrations above the laboratory reporting limits. Additionally, the areas of soil borings (SB-2, SB-4, and SB-5) did not show any TPH concentrations above the RRAL.

However, the areas of soil borings (SB-1, SB-3, SB-6, and SB-8) showed elevated TPH concentrations above the 1,000 mg/kg RRAL at 0.5 to 1.0' below surface. The TPH concentrations in these areas then declined with depth to below the RRAL at 2.0'-3.0' below surface. The area of soil boring (SB-9) showed a TPH high of 27,100 mg/kg at 0-1', which declined to 1,009 mg/kg at 2.0'-3.0', and showed a bottom hole concentration of 8.00 mg/kg at 14'-15' below surface. The area of soil boring (SB-7) showed a TPH concentration of 5,870 mg/kg at 0-1' which declined to 266 mg/kg at 2.0'-3.0' below surface. However, a TPH spike of 2,340 mg/kg was detected at 4.0'-5.0' below surface. The area of soil boring (SB-7) showed a bottom hole TPH concentration of 74.4 mg/kg. The area of soil boring (SB-5) showed a TPH concentration of 219 mg/kg at 0-1', which declined with depth to below the laboratory reporting limit. However, a bottom hole TPH concentration of 5,770 mg/kg was detected. The TPH concentration detected may be due to laboratory error, however it will be confirmed by re-sampling, if necessary.

The areas of soil borings (SB-1, SB-2, SB-3, SB-4, SB-5, SB-6, SB-8, and SB-9) showed elevated chloride concentrations in the shallow soils, which declined with depth. The area of soil boring (SB-7) did not show any significant chloride concentrations to the soils.

Work Plan

The release area poses significant remediation challenges based on the surface conditions at the site. The soil lithology logged during the soil boring investigation showed a dense and compacted caliche/limestone formation at the surface and in the subsurface soils, which may be difficult to perform any removal of soil greater than 2.0' below surface. Additionally, the size of the spill and the number of flow lines present creates another set of challenges and safety concerns. To properly and economically remove the impacted soil, ConocoPhillips proposes to remove the soil to the maximum extent practicable due to the dense formation at the surface and multiple flowlines in the area.

ConocoPhillips proposes to remove the impacted soils as shown on Figure 4 and highlighted (green) on Table 1. All of the impacted areas will be excavated to depths from 0.5 to 2.0' below surface to remove the elevated TPH and chlorides from top of the dense formation. Based on the data, the heaviest impact appears to be present in the shallow soils. The goal of the proposed remediation is to remove as much, if not all, of the impacted soil on top of the dense formation. Based on the data, the areas of soil borings (SB-5 and SB-7) will be re-sampled to confirm TPH concentrations detected due in the deeper soils encountered at 4.0'-5.0' and 14'-15' below surface, respectively.

Once the area is excavated to depths of 0.5 to 2.0' below surface, Tetra Tech will collect bottom hole samples for TPH and chlorides for re-evaluation. If needed, additional samples may be collected to assess the excavation bottom or if hot spots are identified in some of the areas. In addition, if the chloride impacted areas are exceeding the permissible levels, the excavation bottom will be vertically defined to define extents and the deeper impact will be capped a 20 mil liner at 2.0' below surface.

On the hydrocarbon impacted areas exceeding the RRALs, the areas will either be treated with a Micro-Blaze product to aid in the degradation of the hydrocarbons or removal of the dense material if feasible or practicable. If a Micro-Blaze product is used, periodic samples will be collected from the remediated area to monitor the progress of the remediation and apply additional treatments as needed.

<u>Flowline Areas</u>

Due to multiple lines in the areas, proper excavation will not be performed due to accessibility and safety concerns. The impacted areas along the flowline will be hand dug as feasible to the top of the dense rock. If bottom confirmation samples are not within permissible levels, the NMOCD will be contacted for a site inspection and determine a possible in-situ remediation treatment plan to address the hydrocarbon impact.

The proposed excavation depths may not be reached due to dense formation, 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 safely concerns for onsite personnel. As such, ConocoPhillips will excavate the impacted soils to the maximum extent practicable. Once excavated, the areas will then be backfilled with clean material to surface grade. All the excavated material will be transported offsite for proper disposal.

Revegetation Plan

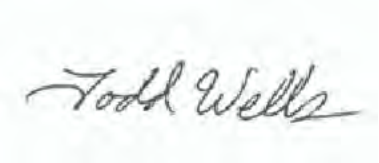
The backfilled areas will be seeded in June 2018 in order to coincide with the rainy season in Southeastern New Mexico to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Shallow (SH) Sites Seed Mixture will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The NMSLO seed mixture details and corresponding pounds pure live seed per acre are included in Appendix D.

Conclusion

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

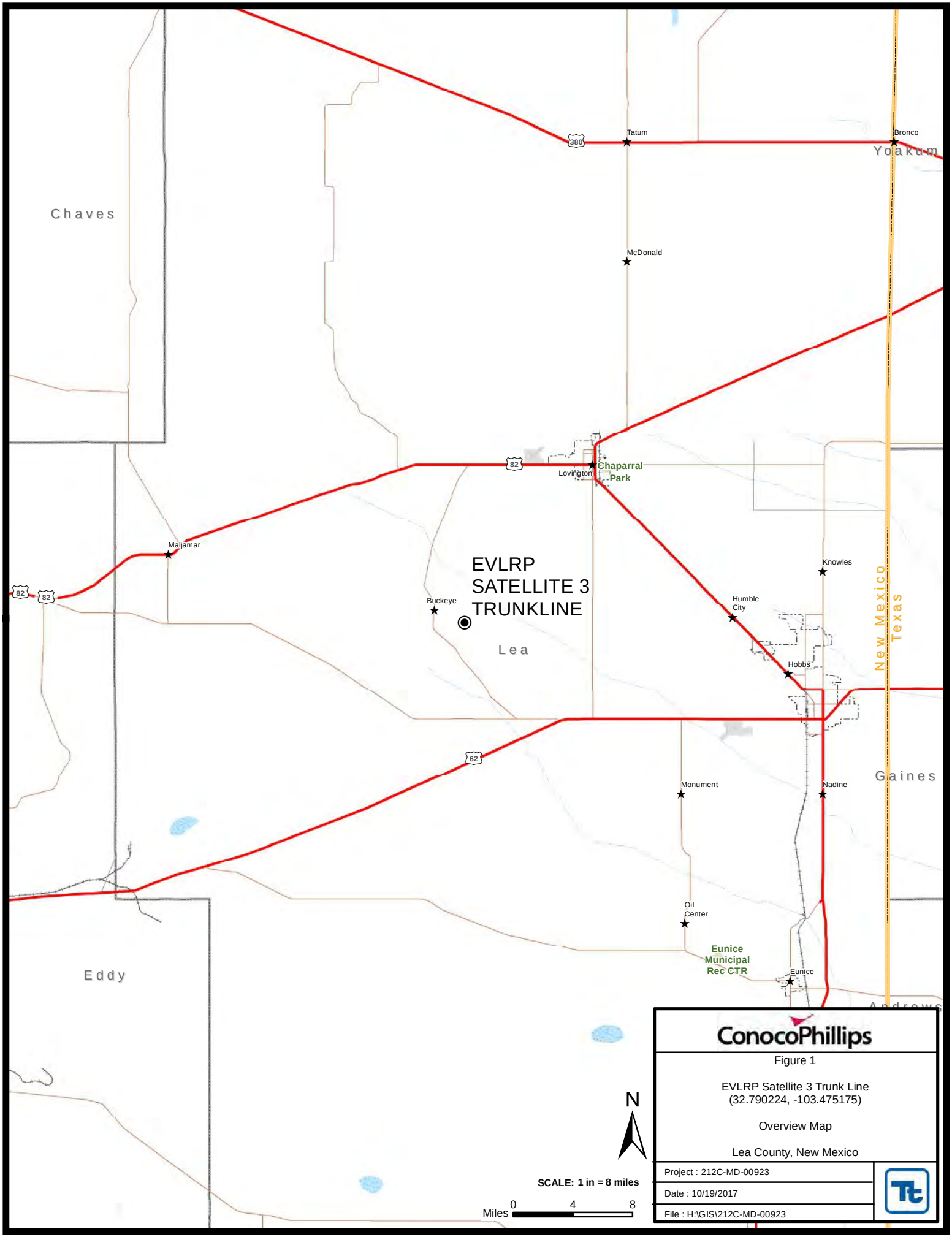


Todd Wells,
Project Manager

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

cc: Neal Goates – ConocoPhillips

Figures



ConocoPhillips

Figure 1

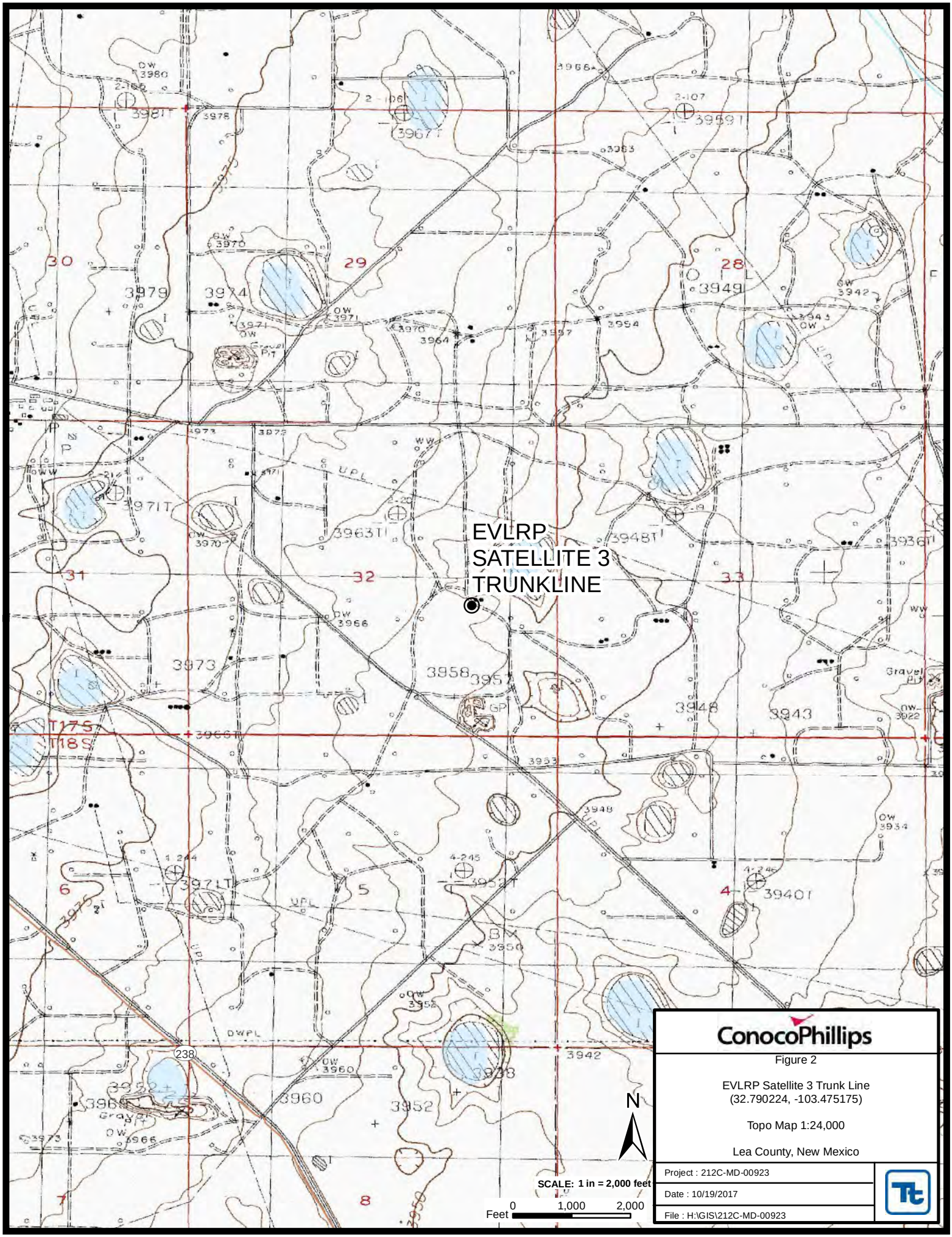
EVLRP Satellite 3 Trunk Line
(32.790224, -103.475175)

Overview Map

Lea County, New Mexico

Project : 212C-MD-00923	
Date : 10/19/2017	
File : H:\GIS\212C-MD-00923	

Mapped By: Isabel Marmolejo



ConocoPhillips

Figure 2

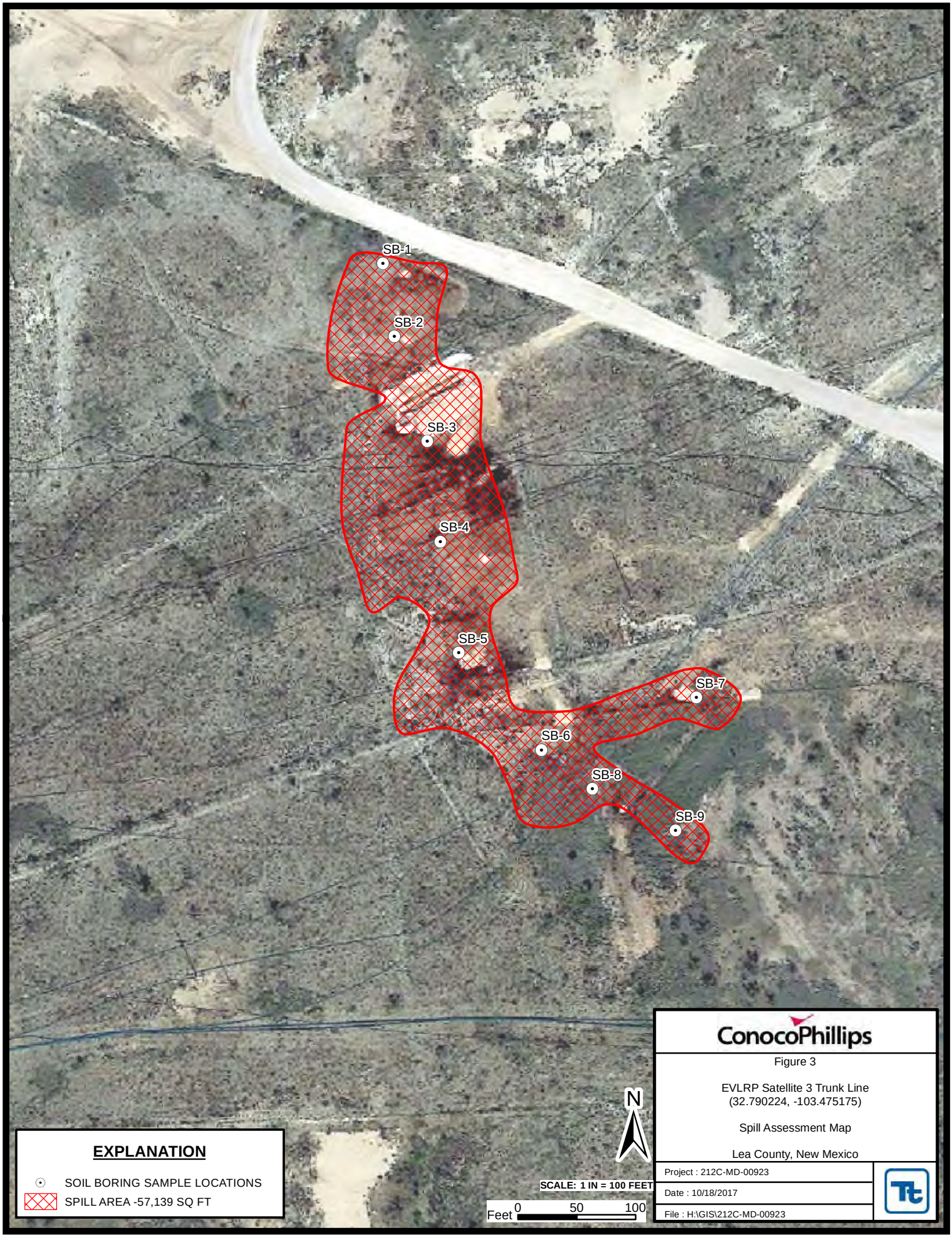
EVLRP Satellite 3 Trunk Line
(32.790224, -103.475175)

Topo Map 1:24,000

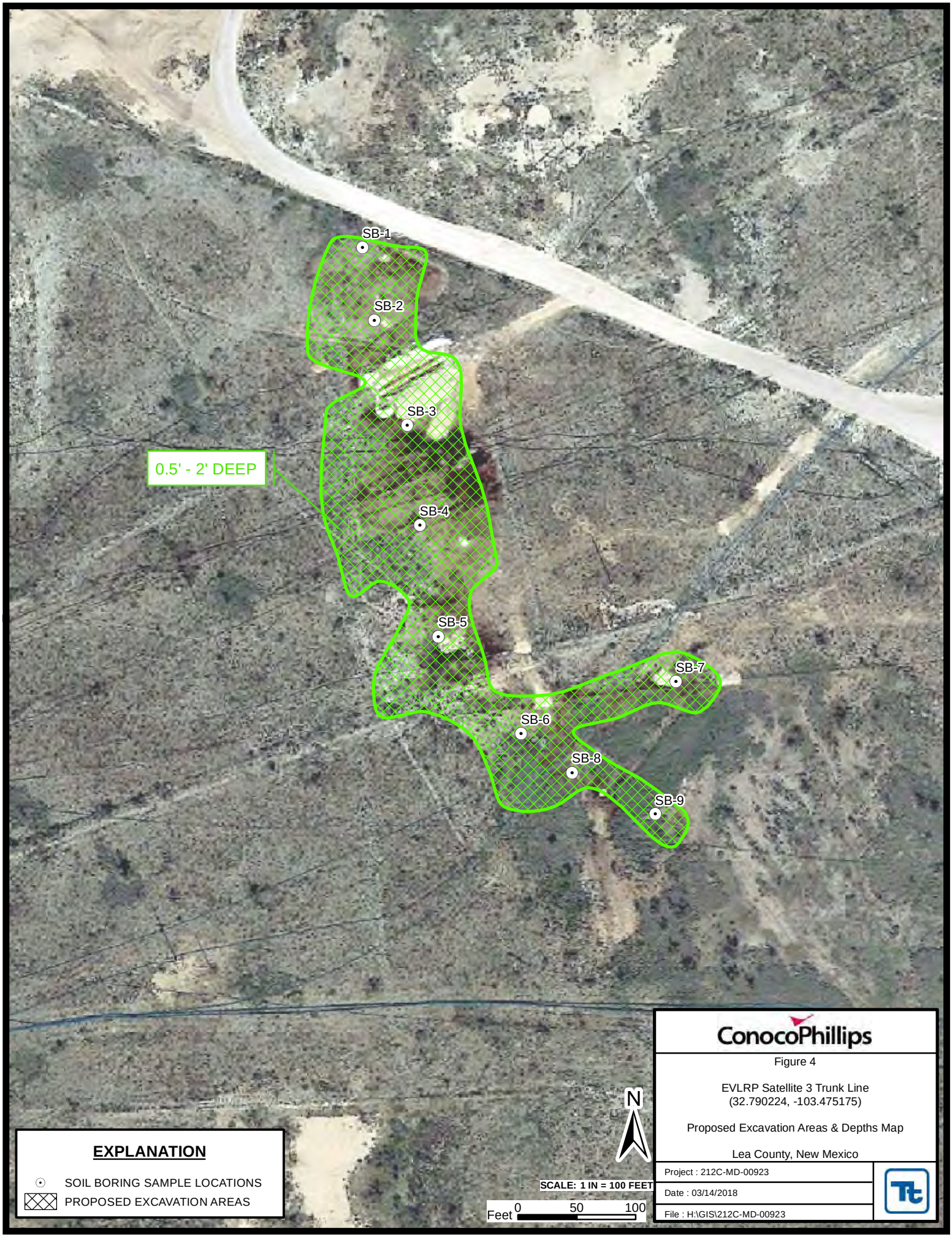
Lea County, New Mexico

Project : 212C-MD-00923	
Date : 10/19/2017	
File : H:\GIS\212C-MD-00923	

Mapped By: Isabel Marmolejo



Mapped By: Isabel Marmolejo



EXPLANATION

- SOIL BORING SAMPLE LOCATIONS
- PROPOSED EXCAVATION AREAS

ConocoPhillips

Figure 4

EVLRP Satellite 3 Trunk Line
(32.790224, -103.475175)

Proposed Excavation Areas & Depths Map

Lea County, New Mexico

Project : 212C-MD-00923

Date : 03/14/2018

File : H:\GIS\212C-MD-00923

Mapped By: Isabel Marmolejo

Tables

Table 1
ConocoPhillips
EVGSAU Satellite 3 Trunkline
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH GRO mg/kg	Organics			BTEX					
			In-Situ	Removed		Oil Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Total Organics	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
SB-1	08/02/17	0-6"	X		26.5	37,000	42,200	**79,200**	ND	ND	ND	0.061	0.061	**31,400**
	08/02/17	6"-1	X		21.4	392	436	828	ND	ND	ND	ND	-	**3,940**
	08/02/17	2-3	X		ND	19.2	19.8	39	ND	ND	ND	ND	-	1,120
	08/02/17	4-5	X		-	-	-	-	-	-	-	-	-	122
	08/02/17	6-7	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	14-15	X		ND	18.3	ND	18.3	ND	ND	ND	ND	-	127
SB-2	08/01/17	0-2"	X		-	-	-	-	-	-	-	-	-	**11500**
	08/01/17	0-1	X		ND	15.8	ND	15.8	ND	ND	ND	ND	-	1470
	08/01/17	2-3	X		ND	11.9	ND	11.9	ND	ND	ND	ND	-	218
	08/01/17	4-5	X		-	-	-	-	-	-	-	-	-	168
	08/01/17	6-7	X		-	-	-	-	-	-	-	-	-	ND
	08/01/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/01/17	14-15	X		ND	ND	ND	-	ND	ND	ND	ND	-	ND
SB-3	08/02/17	0-1	X		ND	1,200	2,090	**3,290**	ND	ND	ND	0.014	0.014	450
	08/02/17	2-3	X		ND	193	208	401	ND	ND	ND	ND	-	1370
	08/02/17	4-5	X		-	-	-	-	-	-	-	-	-	108
	08/02/17	6-7	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	14-15	X		ND	19.5	13.7	33.2	ND	ND	ND	ND	-	ND
SB-4	08/02/17	0-6"	X		-	-	-	-	-	-	-	-	-	**4120**
	08/02/17	6"-1	X		ND	22.9	ND	22.9	ND	ND	ND	ND	-	ND
	08/02/17	2-3	X		ND	ND	ND	ND	ND	ND	ND	ND	-	ND
	08/02/17	4-5	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	6-7	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	14-15	X		ND	ND	ND	-	ND	ND	ND	ND	-	ND

Table 1
ConocoPhillips
EVGSAU Satellite 3 Trunkline
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH GRO mg/kg	Organics			BTEX					
			In-Situ	Removed		Oil Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Total Organics	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
SB-5	08/02/17	0-1	X		ND	129	90	219.4	ND	ND	ND	ND	-	**2700**
	08/02/17	2-3	X		ND	ND	ND	ND	ND	ND	ND	ND	-	**2220**
	08/02/17	4-5	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	6-7	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/02/17	14-15	X		ND	4610	1160	**5770**	ND	ND	ND	ND	-	ND
SB-6	08/03/17	0-6"	X		39.7	15,000	21,400	**36,400**	ND	0.040	0.33	0.74	1.110	**1,710**
	08/03/17	6"-1	X		22.7	1410	201	**1,611**	ND	ND	0.012	ND	0.012	436
	08/03/17	2-3	X		ND	721	185	906	ND	ND	0.0029	ND	0.0029	209
	08/03/17	4-5	X		-	-	-	-	-	-	-	-	-	283
	08/03/17	6-7	X		-	-	-	-	-	-	-	-	-	764
	08/03/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/03/17	14-15	X		ND	125	173	298	ND	ND	ND	ND	-	ND
SB-7	08/03/17	0-1	X		737	2700	3170	**5870**	0.23	10.3	4.6	56.0	71.13	553
	08/03/17	2-3	X		13.3	144	122	266	ND	ND	ND	ND	-	460
	08/03/17	4-5	X		11.3	880	1460	**2,340**	ND	ND	ND	0.057	0.057	300
	08/03/17	6-7	X		-	-	-	-	-	-	-	-	-	688
	08/03/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/03/17	14-15	X		-	-	-	-	-	-	-	-	-	ND
	08/03/17	19-20	X		ND	36.2	38.2	74.4	ND	ND	ND	ND	-	ND
SB-8	08/03/17	0-6"	X		-	-	-	-	-	-	-	-	-	**6,850**
	08/03/17	6"-1	X		87.5	536	1270	**1,806**	ND	0.15	0.38	1.20	1.730	**2,260**
	08/03/17	2-3	X		18.5	58.8	93.5	152.3	ND	ND	0.017	0.059	0.076	516
	08/03/17	4-5	X		-	-	-	-	-	-	-	-	-	148
	08/03/17	6-7	X		-	-	-	-	-	-	-	-	-	ND
	08/03/17	9-10	X		-	-	-	-	-	-	-	-	-	ND
	08/03/17	14-15	X		ND	ND	9.9	9.9	ND	ND	ND	ND	-	ND

Table 1
ConocoPhillips
EVGSAU Satellite 3 Trunkline
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		TPH GRO mg/kg	Organics			BTEX					
			In-Situ	Removed		Oil Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Total Organics	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Chlorides (mg/kg)
SB-9	08/03/17	0-1	X		33.1	10,500	16,600	**27,100**	ND	ND	ND	0.19	0.19	**2,220**
	08/03/17	2-3	X		29.7	372	637	**1,009**	ND	ND	ND	ND	-	194
	08/03/17	4-5	X		-	-	-	-	-	-	-	-	-	466
	08/03/17	6-7	X		-	-	-	-	-	-	-	-	-	194
	08/03/17	9-10	X		-	-	-	-	-	-	-	-	-	195
	08/03/17	14-15	X		ND	8	ND	8	ND	ND	ND	ND	-	ND

(-) Not Analyzed

Proposed Excavation Areas

Areas will be Resampled to Confirm

Photos

ConocoPhillips
EVGSAU Satellite 3
Lea County, New Mexico

View Northeast - Area of SB-1

View Southwest – Area of SB-3

View Northwest – Area of SB-4

View Northwest – Area of SB-8

View Northwest – Area of SB-6

View Northwest – Area of SB-9

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: **Cullen Rosine**
Address**: 1410 N West County Rd**	Telephone No. **575-391-3133**
Facility Name: **EVGSAU Satellite 3 Trunk Line**	Facility Type: **Liquid Trunk Line**

Surface Owner: State	Mineral Owner: State	API No. 30-025-02964

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	32	17S	35E	1987 FSL		660 FEL		**Lea**

Latitude 32.7896118 **Longitude** -103.4734192 release 563 ft NW of well

NATURE OF RELEASE

Type of Release**: Oil & Water Mix**	Volume of Release: 130.03	Volume Recovered: 55
Source of Release: Trunk Line	Date and Hour of Occurrence **06/02/2017 0030 Hours**	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: **06/02/2017 Via Email**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
By Olivia Yu at 9:02 am, Jun 08, 2017

If a Watercourse was Impacted, Describe Fully. *

N/A

Describe Cause of Problem and Remedial Action Taken. *
Total fluid was 130 bbls spilled with 55 picked up. Picked up 30 water and 25 oil. Were able to pick up most of the oil off the top of the spill area.

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

Printed Name: Jose A Zepeda

Title: LEAD HSE

E-mail Address: ***Jose. A. Zepeda@conocophillips.com***

Date: 06/02/2017 Phone:575-391-3165

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 6/8/2017 Expiration Date:

Conditions of Approval:

see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4716 fOY1715933054 nOY1715955207

pOY1715955948

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Conoco Phillips - EVGSAU Satellite 3
Lea County, New Mexico

16 South 34 East

6	5	4	3	2	1
7	8 **Artesia**	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South 35 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

16 South 36 East

6	5	4	3	2	1
7	8	9 **Lovington**	10	11	12
18 **54**	17	16	15	14	13
19	20 **70**	21 **70**	22 **63** **63**	23 **70** **61**	24 **55**
30 **82**	29	28	27	26 **63**	25 **68**
31 **74**	32 **65**	33	34	35 **41**	36 **60**

17 South 34 East

6 **120** **157**	5	4 **65**	3 **95**	2 **80**	1 **77**
7 **140**	8 **140**	9	10 **95**	11 **92**	12 **115**
18 **160**	17 **113**	16 **60**	15 **114** **60**	14 **79**	13 **84**
19 **78**	20 **140**	21 **153**	22 **109**	23	24
30	29	28	27	26	25 **82**
31	32	33	34	35	36

17 South 35 East

6	5	4	3	2	1 **50**
7	8	9 **67**	10	11	12
18 **40**	17 **55**	16	15	14	13
19 **85**	20 **60**	21	22 **49**	23 **45**	24
30 **83**	29 **55**	28 **70**	27 **76**	26 **50**	25 **75**
31 **95** **106**	32 **85** **85**	33 **70**	34 **56** 65	35 **40**	36 **50**

17 South 36 East

6 **50**	5	4 **65**	3 **60**	2 **60** **69**	1 **83** **74**
7	8	9	10 **43**	11	12 **44** **46**
18	17	16	15	14 **48**	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South 34 East

6 **130**	5 **105**	4	3 **87**	2 **102**	1 **107**
7 **83**	8 **148**	9	10 **148**	11 **110**	12 **115** **92**
18 **125**	17	16 **108**	15 **114** **110**	14 **103**	13 **96**
19 **105**	20 **125**	21	22	23	24
30	29	28	27 **112**	26	25 **117**
31	32	33	34	35 **118**	36

18 South 35 East

6 **89** **Buckeye**	5 **69**	4 **58**	3 **62**	2 **55** **51**	1
7 **85**	8	9 **72**	10 **49**	11 **59** **48**	12
18 **90**	17 **90** **124**	16 **75**	15	14 **90**	13 **135**
19 **74** **70**	20 **85** **50**	21	22 **70**	23	24
30	29 **95**	28	27 **68**	26 **60**	25
31	32 **58**	33 **80**	34	35 **58**	36

18 South 36 East

6 **45**	5 **35**	4 **65**	3	2 **60**	1 **50**
7 **65**	8	9 **85**	10	11 **38**	12 **40**
18 **25**	17	16	15 **53**	14 **55**	13
19	20 **59**	21 **58**	22 **60**	23 **39**	24 **28**
30	29 **55**	28 **45**	27 **55**	26 **55**	25 **62**
31	32	33	34 **70**	35	36

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

90 Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)

Geology and Groundwater Resources of Eddy County, NM (Report 3)

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324740103282801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

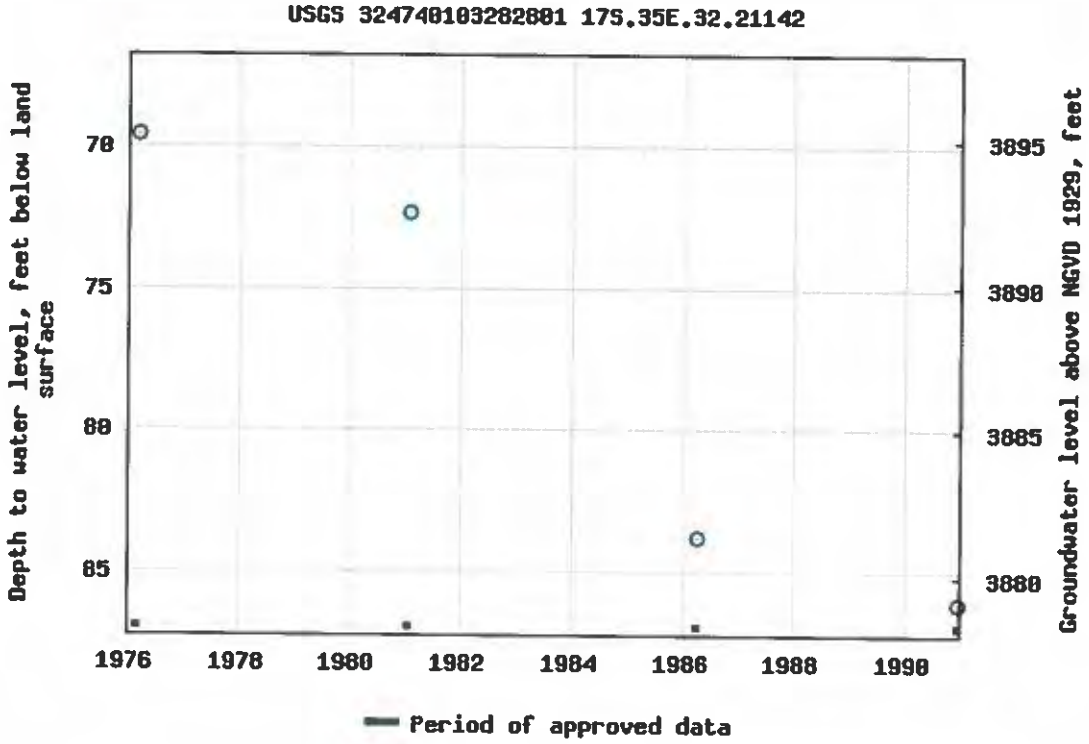
USGS 324740103282801 17S.35E.32.21142

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'51", Longitude 103°28'39" NAD27
Land-surface elevation 3,965.00 feet above NGVD29
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2018-02-28 13:04:17 EST
1.05 0.9 nadww01

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324746103272801

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

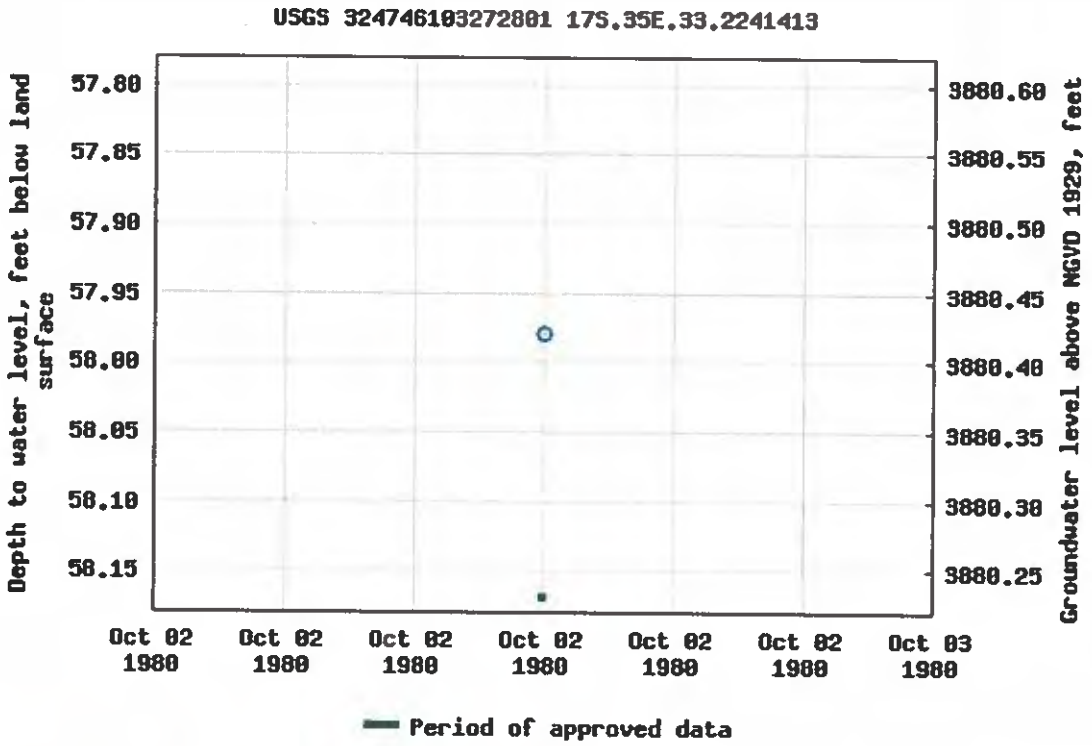
USGS 324746103272801 17S.35E.33.2241413

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'46", Longitude 103°27'28" NAD27
Land-surface elevation 3,938.4 feet above NGVD29
The depth of the well is 224 feet below land surface.
The depth of the hole is 224 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2018-02-28 13:00:06 EST
7.44 1.28 nadww01

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Groundwater levels for New Mexico

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Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324749103262401

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

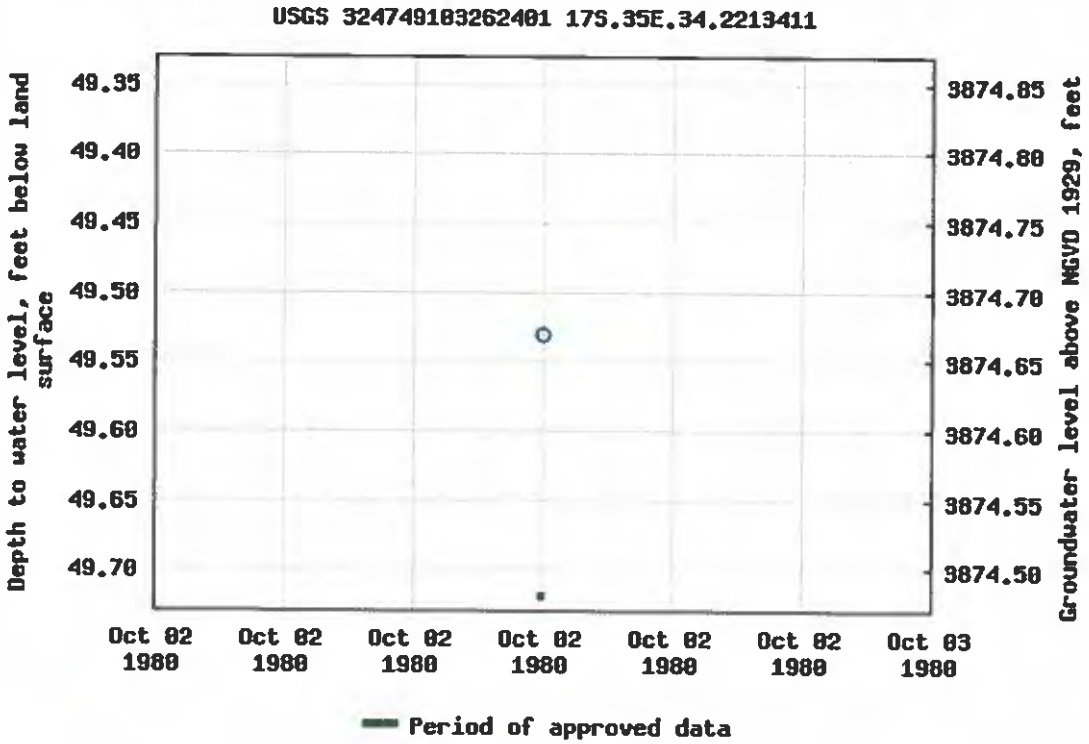
USGS 324749103262401 17S.35E.34.2213411

Available data for this site Groundwater: Field measurements | GO

Lea County, New Mexico
Hydrologic Unit Code 12080003
Latitude 32°47'49", Longitude 103°26'24" NAD27
Land-surface elevation 3,924.2 feet above NGVD29
The depth of the well is 244 feet below land surface.
The depth of the hole is 244 feet below land surface.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.
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Title: Groundwater for New Mexico: Water Levels
URL: https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?

Page Contact Information: New Mexico Water Data Maintainer
Page Last Modified: 2018-02-28 12:58:01 EST
16.39 1.25 nadww01

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 Sub-basin	Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 04829 S	L		LE	3	4		32	17S	35E	642554	3628586*	198	85	113

Average Depth to Water: **85 feet**

Minimum Depth: **85 feet**

Maximum Depth: **85 feet**

Record Count: 1

PLSS Search:

Section(s): 32 **Township:** 17S **Range:** 35E

***UTM location was derived from PLSS - see Help**

Appendix C

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

September 05, 2017

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

RE: Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Dear Greg Pope:
Enclosed are the analytical results for sample(s) received by the laboratory on August 10, 2017. 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: Todd Wells, TetraTech

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

CERTIFICATIONS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219
WY STR Certification #: 2456.01
Arkansas Certification #: 15-016-0
Illinois Certification #: 003097
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
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
Florida Certification #: E871118
EPA# TX00074
Texas Certification #: T104704232
Kansas Certification #: E-10388
Arkansas Certification #: 88-0647
Oklahoma Certification #: TX00074
Louisiana Certification #: 30686
Iowa Certification #: 408
Florida Certification #: E871118
Nevada Certification #: TX00074

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE SUMMARY

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7571855001	**SB-1 (0-6'')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855002	**SB-1 (6''-1')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855003	**SB-1 (2'-3')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855004	**SB-1 (4'-5')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855005	**SB-1 (6'-7')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855006	**SB-1 (9'-10')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855007	**SB-1 (14'-15')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855008	**SB-2 (0-2'')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855009	**SB-2 (0-1')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855010	**SB-2 (2'-3')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855011	**SB-2 (4'-5')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855012	**SB-2 (6'-7')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855013	**SB-2 (9'-10')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855014	**SB-2 (14'-15')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855015	**SB-3 (0-1')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855016	**SB-3 (2'-3')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855017	**SB-3 (4'-5')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855018	**SB-3 (6'-7')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855019	**SB-3 (9'-10')**	Solid	08/01/17 00:01	08/10/17 08:45
7571855020	**SB-3 (14'-15')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855021	**SB-4 (0-6'')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855022	**SB-4 (6''-1')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855023	**SB-4 (2'-3')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855024	**SB-4 (4-5')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855025	**SB-4 (6'-7')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855026	**SB-4 (9'-10')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855027	**SB-4 (14'-15')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855028	**SB-5 (0-1')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855029	**SB-5 (2'-3')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855030	**SB-5 (4'-5')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855031	**SB-5 (6'-7')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855032	**SB-5 (9'-10')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855033	**SB-5 (14'-15')**	Solid	08/02/17 00:01	08/10/17 08:45
7571855034	**SB-6 (0-6'')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855035	**SB-6 (6''-1')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855036	**SB-6 (2'-3')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855037	**SB-6 (4'-5')**	Solid	08/03/17 00:01	08/10/17 08:45

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE SUMMARY

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7571855038	**SB-6 (6'-7')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855039	**SB-6 (9'-10')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855040	**SB-6 (14'-15')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855041	**SB-7 (0-1')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855042	**SB-7 (2'-3')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855043	**SB-7 (4'-5')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855044	**SB-7 (6'-7')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855045	**SB-7 (9'-10')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855046	**SB-7 (14'-15')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855047	**SB-7 (19'-20')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855048	**SB-8 (0-6'')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855049	**SB-8 (6''-1')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855050	**SB-8 (2'-3')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855051	**SB-8 (4'-5')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855052	**SB-8 (6'-7')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855053	**SB-8 (9'-10')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855054	**SB-8 (14'-15')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855055	**SB-9 (0-1')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855056	**SB-9 (2-3')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855057	**SB-9 (4'-5')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855058	**SB-9 (6'-7')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855059	**SB-9 (9'-10')**	Solid	08/03/17 00:01	08/10/17 08:45
7571855060	**SB-9 (14-15')**	Solid	08/03/17 00:01	08/10/17 08:45

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

SAMPLE ANALYTE COUNT

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7571855001	**SB-1 (0-6")**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855002	**SB-1 (6"-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855003	**SB-1 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855004	**SB-1 (4'-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855005	**SB-1 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855006	**SB-1 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855007	**SB-1 (14'-15')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855008	**SB-2 (0-2")**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855009	**SB-2 (0-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
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(972)727-1123

SAMPLE ANALYTE COUNT

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	OL	1	PASI-K
7571855010	**SB-2 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855011	**SB-2 (4'-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855012	**SB-2 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855013	**SB-2 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855014	**SB-2 (14'-15')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855015	**SB-3 (0-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855016	**SB-3 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855017	**SB-3 (4'-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855018	**SB-3 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855019	**SB-3 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7571855020	**SB-3 (14'-15')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855021	**SB-4 (0-6")**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855022	**SB-4 (6"-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855023	**SB-4 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855024	**SB-4 (4-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855025	**SB-4 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855026	**SB-4 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855027	**SB-4 (14'-15')**	EPA 8015B	PMS	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855028	**SB-5 (0-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	JMC1	1	PASI-K
7571855029	**SB-5 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855030	**SB-5 (4'-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855031	**SB-5 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855032	**SB-5 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855033	**SB-5 (14'-15')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855034	**SB-6 (0-6")**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855035	**SB-6 (6"-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855036	**SB-6 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7571855037	**SB-6 (4'-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855038	**SB-6 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855039	**SB-6 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855040	**SB-6 (14'-15')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855041	**SB-7 (0-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855042	**SB-7 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855043	**SB-7 (4'-5')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855044	**SB-7 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855045	**SB-7 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855046	**SB-7 (14'-15')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855047	**SB-7 (19'-20')**	EPA 8015B	MS1	2	PASI-D

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855048	**SB-8 (0-6'')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855049	**SB-8 (6''-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	JMC1	1	PASI-K
7571855050	**SB-8 (2'-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855051	**SB-8 (4'-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855052	**SB-8 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855053	**SB-8 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855054	**SB-8 (14'-15')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855055	**SB-9 (0-1')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7571855056	**SB-9 (2-3')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855057	**SB-9 (4'-5')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855058	**SB-9 (6'-7')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855059	**SB-9 (9'-10')**	ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K
7571855060	**SB-9 (14-15')**	EPA 8015B	MS1	2	PASI-D
		EPA 8015B Modified	PMS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	DAT	1	PASI-D
		EPA 300.0	OL	1	PASI-K

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-1 (0-6") **Lab ID: 7571855001** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**42200**	mg/kg	2460	200	08/16/17 11:00	08/25/17 00:42		1t,M1,R1
Surrogates								
a-Pinene (S)	190	%.	10-87	200	08/16/17 11:00	08/25/17 00:42		S2
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**37000**	mg/kg	2460	200	08/16/17 11:00	08/25/17 00:42		M3,N2
Surrogates								
a-Pinene (S)	0	%.	17-70	200	08/16/17 11:00	08/25/17 00:42		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**26.5**	mg/kg	12.4	1	08/15/17 00:00	08/15/17 20:18		
Surrogates								
4-Bromofluorobenzene (S)	80	%	64-122	1	08/15/17 00:00	08/15/17 20:18	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.013	5	08/15/17 12:55	08/16/17 17:40	71-43-2	
Ethylbenzene	ND	mg/kg	0.013	5	08/15/17 12:55	08/16/17 17:40	100-41-4	
Toluene	ND	mg/kg	0.013	5	08/15/17 12:55	08/16/17 17:40	108-88-3	
Xylene (Total)	**0.061**	mg/kg	0.038	5	08/15/17 12:55	08/16/17 17:40	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	70-130	5	08/15/17 12:55	08/16/17 17:40	17060-07-0	D3
4-Bromofluorobenzene (S)	114	%.	70-130	5	08/15/17 12:55	08/16/17 17:40	460-00-4	
Toluene-d8 (S)	102	%.	70-130	5	08/15/17 12:55	08/16/17 17:40	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**20.2**	%		1		08/18/17 17:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**31400**	mg/kg	3130	250	08/30/17 14:00	08/31/17 01:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-1 (6"-1') **Lab ID: 7571855002** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**436**	mg/kg	57.9	5	08/16/17 11:00	08/25/17 12:35		1t
Surrogates								
a-Pinene (S)	38	%.	10-87	5	08/16/17 11:00	08/25/17 12:35		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**392**	mg/kg	57.9	5	08/16/17 11:00	08/25/17 12:35		N2
Surrogates								
a-Pinene (S)	9	%.	17-70	5	08/16/17 11:00	08/25/17 12:35		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**21.4**	mg/kg	11.9	1	08/15/17 00:00	08/15/17 20:33		
Surrogates								
4-Bromofluorobenzene (S)	89	%	64-122	1	08/15/17 00:00	08/15/17 20:33	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:04	71-43-2	
Ethylbenzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:04	100-41-4	
Toluene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:04	108-88-3	
Xylene (Total)	ND	mg/kg	0.0070	1	08/15/17 12:55	08/15/17 22:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	70-130	1	08/15/17 12:55	08/15/17 22:04	17060-07-0	
4-Bromofluorobenzene (S)	103	%.	70-130	1	08/15/17 12:55	08/15/17 22:04	460-00-4	
Toluene-d8 (S)	95	%.	70-130	1	08/15/17 12:55	08/15/17 22:04	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**15.1**	%		1		08/18/17 17:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**3940**	mg/kg	589	50	08/30/17 14:00	08/31/17 01:38	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-1 (2'-3') **Lab ID: 7571855003** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**19.8**	mg/kg	10.9	1	08/16/17 11:00	08/24/17 01:36		
Surrogates								
a-Pinene (S)	35	%.	10-87	1	08/16/17 11:00	08/24/17 01:36		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**19.2**	mg/kg	10.9	1	08/16/17 11:00	08/24/17 02:07		N2
Surrogates								
a-Pinene (S)	41	%.	17-70	1	08/16/17 11:00	08/24/17 02:07		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.2	1	08/15/17 00:00	08/15/17 21:20		
Surrogates								
4-Bromofluorobenzene (S)	85	%	64-122	1	08/15/17 00:00	08/15/17 21:20	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:29	71-43-2	
Ethylbenzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:29	100-41-4	
Toluene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:29	108-88-3	
Xylene (Total)	ND	mg/kg	0.0068	1	08/15/17 12:55	08/15/17 22:29	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1	08/15/17 12:55	08/15/17 22:29	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	08/15/17 12:55	08/15/17 22:29	460-00-4	
Toluene-d8 (S)	97	%.	70-130	1	08/15/17 12:55	08/15/17 22:29	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**10.4**	%		1		08/18/17 17:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**1120**	mg/kg	112	10	08/15/17 12:00	08/15/17 16:08	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-1 (4'-5') **Lab ID: 7571855004** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**5.3**	%		1		08/18/17 17:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**122**	mg/kg	106	10	08/15/17 12:00	08/15/17 16:24	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-1 (6'-7') **Lab ID: 7571855005** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**10.6**	%		1		08/18/17 17:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	112	10	08/15/17 12:00	08/15/17 16:40	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-1 (9'-10') **Lab ID: 7571855006** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**10.0**	%		1		08/18/17 17:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	111	10	08/15/17 12:00	08/15/17 16:56	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-1 (14'-15') **Lab ID: 7571855007** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	11.4	1	08/16/17 11:00	08/24/17 02:07		
Surrogates								
a-Pinene (S)	37	%.	10-87	1	08/16/17 11:00	08/24/17 02:07		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**18.3**	mg/kg	11.4	1	08/16/17 11:00	08/24/17 02:38		N2
Surrogates								
a-Pinene (S)	39	%.	17-70	1	08/16/17 11:00	08/24/17 02:38		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.5	1	08/15/17 00:00	08/15/17 21:36		
Surrogates								
4-Bromofluorobenzene (S)	83	%	64-122	1	08/15/17 00:00	08/15/17 21:36	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:54	71-43-2	
Ethylbenzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:54	100-41-4	
Toluene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 22:54	108-88-3	
Xylene (Total)	ND	mg/kg	0.0069	1	08/15/17 12:55	08/15/17 22:54	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	70-130	1	08/15/17 12:55	08/15/17 22:54	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	08/15/17 12:55	08/15/17 22:54	460-00-4	
Toluene-d8 (S)	97	%.	70-130	1	08/15/17 12:55	08/15/17 22:54	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**13.0**	%		1		08/18/17 17:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**127**	mg/kg	115	10	08/15/17 12:00	08/15/17 17:12	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-2 (0-2") **Lab ID: 7571855008** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**12.2**	%		1		08/18/17 17:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**11500**	mg/kg	1140	100	08/30/17 14:00	08/31/17 02:56	16887-00-6	H2,M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-2 (0-1') **Lab ID: 7571855009** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	10.2	1	08/16/17 11:00	08/24/17 02:38		H2
Surrogates								
a-Pinene (S)	30	%.	10-87	1	08/16/17 11:00	08/24/17 02:38		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**15.8**	mg/kg	10.2	1	08/16/17 11:00	08/24/17 03:08		H2,N2
Surrogates								
a-Pinene (S)	36	%.	17-70	1	08/16/17 11:00	08/24/17 03:08		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.4	1	08/15/17 00:00	08/15/17 15:20		
Surrogates								
4-Bromofluorobenzene (S)	109	%	64-122	1	08/15/17 00:00	08/15/17 15:20	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/15/17 10:00	08/15/17 16:53	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	08/15/17 10:00	08/15/17 16:53	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/15/17 10:00	08/15/17 16:53	108-88-3	
Xylene (Total)	ND	mg/kg	0.0062	1	08/15/17 10:00	08/15/17 16:53	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%.	70-130	1	08/15/17 10:00	08/15/17 16:53	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	08/15/17 10:00	08/15/17 16:53	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	08/15/17 10:00	08/15/17 16:53	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**3.7**	%		1		08/18/17 17:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**1470**	mg/kg	105	10	08/15/17 12:00	08/15/17 17:43	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-2 (2'-3') **Lab ID: 7571855010** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	10.1	1	08/16/17 11:00	08/24/17 03:08		H2
Surrogates								
a-Pinene (S)	36	%.	10-87	1	08/16/17 11:00	08/24/17 03:08		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**11.9**	mg/kg	10.1	1	08/16/17 11:00	08/24/17 03:39		H2,N2
Surrogates								
a-Pinene (S)	40	%.	17-70	1	08/16/17 11:00	08/24/17 03:39		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.2	1	08/15/17 00:00	08/15/17 15:35		
Surrogates								
4-Bromofluorobenzene (S)	108	%	64-122	1	08/15/17 00:00	08/15/17 15:35	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 16:27	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 16:27	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 16:27	108-88-3	
Xylene (Total)	ND	mg/kg	0.0062	1	08/15/17 12:55	08/15/17 16:27	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	70-130	1	08/15/17 12:55	08/15/17 16:27	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	08/15/17 12:55	08/15/17 16:27	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	08/15/17 12:55	08/15/17 16:27	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**2.1**	%		1		08/18/17 17:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**218**	mg/kg	103	10	08/15/17 12:00	08/15/17 17:59	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-2 (4'-5') **Lab ID: 7571855011** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**2.2**	%		1		08/18/17 17:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**168**	mg/kg	103	10	08/15/17 12:00	08/15/17 18:15	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-2 (6'-7') **Lab ID: 7571855012** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**2.0**	%		1		08/18/17 17:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	101	10	08/15/17 12:00	08/15/17 18:31	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-2 (9'-10') **Lab ID: 7571855013** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**24.2**	%		1		08/18/17 17:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	131	10	08/15/17 12:00	08/15/17 19:19	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-2 (14'-15') **Lab ID: 7571855014** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	10.2	1	08/16/17 11:00	08/24/17 03:39		H2
Surrogates								
a-Pinene (S)	36	%.	10-87	1	08/16/17 11:00	08/24/17 03:39		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	10.2	1	08/16/17 11:00	08/24/17 04:10		H2,N2
Surrogates								
a-Pinene (S)	39	%.	17-70	1	08/16/17 11:00	08/24/17 04:10		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.4	1	08/15/17 00:00	08/15/17 15:51		
Surrogates								
4-Bromofluorobenzene (S)	107	%	64-122	1	08/15/17 00:00	08/15/17 15:51	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 17:20	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 17:20	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 17:20	108-88-3	
Xylene (Total)	ND	mg/kg	0.0063	1	08/15/17 12:55	08/15/17 17:20	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	70-130	1	08/15/17 12:55	08/15/17 17:20	17060-07-0	
4-Bromofluorobenzene (S)	97	%.	70-130	1	08/15/17 12:55	08/15/17 17:20	460-00-4	
Toluene-d8 (S)	95	%.	70-130	1	08/15/17 12:55	08/15/17 17:20	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**3.5**	%		1		08/18/17 17:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	104	10	08/15/17 12:00	08/15/17 19:35	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-3 (0-1') **Lab ID: 7571855015** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**2090**	mg/kg	112	10	08/16/17 11:00	08/21/17 13:15		1t
Surrogates								
a-Pinene (S)	45	%.	10-87	10	08/16/17 11:00	08/21/17 13:15		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**1200**	mg/kg	112	10	08/16/17 11:00	08/21/17 13:50		N2
Surrogates								
a-Pinene (S)	51	%.	17-70	10	08/16/17 11:00	08/21/17 13:50		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.5	1	08/15/17 00:00	08/15/17 21:53		
Surrogates								
4-Bromofluorobenzene (S)	91	%	64-122	1	08/15/17 00:00	08/15/17 21:53	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 23:19	71-43-2	
Ethylbenzene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 23:19	100-41-4	
Toluene	ND	mg/kg	0.0023	1	08/15/17 12:55	08/15/17 23:19	108-88-3	
Xylene (Total)	**0.014**	mg/kg	0.0069	1	08/15/17 12:55	08/15/17 23:19	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1	08/15/17 12:55	08/15/17 23:19	17060-07-0	
4-Bromofluorobenzene (S)	109	%.	70-130	1	08/15/17 12:55	08/15/17 23:19	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	08/15/17 12:55	08/15/17 23:19	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**12.9**	%		1		08/18/17 17:53		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**4550**	mg/kg	574	50	08/30/17 14:00	08/31/17 03:11	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-3 (2'-3') **Lab ID: 7571855016** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**208**	mg/kg	10.6	1	08/16/17 11:00	08/24/17 14:06		1t
Surrogates								
a-Pinene (S)	39	%.	10-87	1	08/16/17 11:00	08/24/17 14:06		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**193**	mg/kg	10.6	1	08/16/17 11:00	08/24/17 14:06		N2
Surrogates								
a-Pinene (S)	44	%.	17-70	1	08/16/17 11:00	08/24/17 14:06		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	08/15/17 00:00	08/15/17 22:08		
Surrogates								
4-Bromofluorobenzene (S)	90	%	64-122	1	08/15/17 00:00	08/15/17 22:08	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 23:44	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 23:44	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/15/17 23:44	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	08/15/17 12:55	08/15/17 23:44	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	92	%.	70-130	1	08/15/17 12:55	08/15/17 23:44	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	08/15/17 12:55	08/15/17 23:44	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	08/15/17 12:55	08/15/17 23:44	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.4**	%		1		08/18/17 17:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**1370**	mg/kg	106	10	08/15/17 12:00	08/15/17 20:07	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-3 (4'-5') **Lab ID: 7571855017** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**4.4**	%		1		08/18/17 17:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**108**	mg/kg	104	10	08/15/17 12:00	08/15/17 20:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-3 (6'-7') **Lab ID: 7571855018** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**5.4**	%		1		08/18/17 17:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	105	10	08/15/17 12:00	08/15/17 20:38	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-3 (9'-10') **Lab ID: 7571855019** Collected: 08/01/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.7**	%		1		08/18/17 17:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	108	10	08/15/17 12:00	08/15/17 20:54	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-3 (14'-15') **Lab ID: 7571855020** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**13.7**	mg/kg	10.3	1	08/16/17 11:00	08/24/17 04:10		1t
Surrogates								
a-Pinene (S)	33	%.	10-87	1	08/16/17 11:00	08/24/17 04:10		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**19.5**	mg/kg	10.3	1	08/16/17 11:00	08/24/17 04:41		N2
Surrogates								
a-Pinene (S)	37	%.	17-70	1	08/16/17 11:00	08/24/17 04:41		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.3	1	08/15/17 00:00	08/15/17 22:24		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	08/15/17 00:00	08/15/17 22:24	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 00:09	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 00:09	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 00:09	108-88-3	
Xylene (Total)	ND	mg/kg	0.0063	1	08/15/17 12:55	08/16/17 00:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	94	%.	70-130	1	08/15/17 12:55	08/16/17 00:09	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	08/15/17 12:55	08/16/17 00:09	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	08/15/17 12:55	08/16/17 00:09	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**3.9**	%		1		08/18/17 17:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	104	10	08/15/17 12:00	08/15/17 21:10	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-4 (0-6") **Lab ID: 7571855021** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**19.7**	%		1		08/18/17 18:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**4120**	mg/kg	249	20	08/30/17 14:00	08/31/17 03:26	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-4 (6"-1') **Lab ID: 7571855022** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	11.4	1	08/16/17 11:00	08/24/17 14:39		
Surrogates								
a-Pinene (S)	30	%.	10-87	1	08/16/17 11:00	08/24/17 14:39		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**22.9**	mg/kg	11.4	1	08/16/17 11:00	08/24/17 14:39		N2
Surrogates								
a-Pinene (S)	33	%.	17-70	1	08/16/17 11:00	08/24/17 14:39		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.6	1	08/15/17 00:00	08/15/17 22:39		
Surrogates								
4-Bromofluorobenzene (S)	95	%	64-122	1	08/15/17 00:00	08/15/17 22:39	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.012	5	08/15/17 12:55	08/16/17 17:14	71-43-2	
Ethylbenzene	ND	mg/kg	0.012	5	08/15/17 12:55	08/16/17 17:14	100-41-4	
Toluene	ND	mg/kg	0.012	5	08/15/17 12:55	08/16/17 17:14	108-88-3	
Xylene (Total)	ND	mg/kg	0.035	5	08/15/17 12:55	08/16/17 17:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	70-130	5	08/15/17 12:55	08/16/17 17:14	17060-07-0	D3
4-Bromofluorobenzene (S)	99	%.	70-130	5	08/15/17 12:55	08/16/17 17:14	460-00-4	
Toluene-d8 (S)	96	%.	70-130	5	08/15/17 12:55	08/16/17 17:14	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**13.8**	%		1		08/18/17 18:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	116	10	08/15/17 12:03	08/15/17 14:47	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-4 (2'-3') **Lab ID: 7571855023** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	10.0	1	08/16/17 11:00	08/24/17 04:41		
Surrogates								
a-Pinene (S)	37	%.	10-87	1	08/16/17 11:00	08/24/17 04:41		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	10.0	1	08/16/17 11:00	08/24/17 05:11		N2
Surrogates								
a-Pinene (S)	41	%.	17-70	1	08/16/17 11:00	08/24/17 05:11		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.2	1	08/15/17 00:00	08/15/17 22:56		
Surrogates								
4-Bromofluorobenzene (S)	89	%	64-122	1	08/15/17 00:00	08/15/17 22:56	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0020	1	08/15/17 12:55	08/16/17 00:58	71-43-2	
Ethylbenzene	ND	mg/kg	0.0020	1	08/15/17 12:55	08/16/17 00:58	100-41-4	
Toluene	ND	mg/kg	0.0020	1	08/15/17 12:55	08/16/17 00:58	108-88-3	
Xylene (Total)	ND	mg/kg	0.0061	1	08/15/17 12:55	08/16/17 00:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%.	70-130	1	08/15/17 12:55	08/16/17 00:58	17060-07-0	
4-Bromofluorobenzene (S)	107	%.	70-130	1	08/15/17 12:55	08/16/17 00:58	460-00-4	
Toluene-d8 (S)	95	%.	70-130	1	08/15/17 12:55	08/16/17 00:58	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**1.9**	%		1		08/18/17 18:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	101	10	08/15/17 12:03	08/15/17 15:13	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-4 (4-5') **Lab ID: 7571855024** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**3.5**	%		1		08/18/17 18:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	103	10	08/15/17 12:03	08/15/17 15:26	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-4 (6'-7') **Lab ID: 7571855025** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**3.9**	%		1		08/18/17 18:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	104	10	08/15/17 12:03	08/15/17 15:39	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-4 (9'-10') **Lab ID: 7571855026** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**5.8**	%		1		08/18/17 18:14		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	105	10	08/15/17 12:03	08/15/17 16:17	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-4 (14'-15') **Lab ID: 7571855027** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	10.3	1	08/16/17 11:00	08/24/17 05:42		
Surrogates								
a-Pinene (S)	34	%.	10-87	1	08/16/17 11:00	08/24/17 05:42		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	10.3	1	08/16/17 11:00	08/24/17 06:13		N2
Surrogates								
a-Pinene (S)	38	%.	17-70	1	08/16/17 11:00	08/24/17 06:13		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.5	1	08/15/17 00:00	08/15/17 23:12		
Surrogates								
4-Bromofluorobenzene (S)	84	%	64-122	1	08/15/17 00:00	08/15/17 23:12	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 01:23	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 01:23	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 01:23	108-88-3	
Xylene (Total)	ND	mg/kg	0.0063	1	08/15/17 12:55	08/16/17 01:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	70-130	1	08/15/17 12:55	08/16/17 01:23	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	08/15/17 12:55	08/16/17 01:23	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	08/15/17 12:55	08/16/17 01:23	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**4.4**	%		1		08/18/17 18:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	105	10	08/15/17 12:03	08/15/17 16:30	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-5 (0-1') **Lab ID: 7571855028** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**90.4**	mg/kg	11.5	1	08/16/17 11:00	08/24/17 12:30		1t
Surrogates								
a-Pinene (S)	36	%.	10-87	1	08/16/17 11:00	08/24/17 12:30		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**129**	mg/kg	11.5	1	08/16/17 11:00	08/24/17 12:30		N2
Surrogates								
a-Pinene (S)	42	%.	17-70	1	08/16/17 11:00	08/24/17 12:30		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.8	1	08/16/17 00:00	08/16/17 17:52		
Surrogates								
4-Bromofluorobenzene (S)	89	%	64-122	1	08/16/17 00:00	08/16/17 17:52	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0024	1	08/15/17 12:55	08/16/17 01:47	71-43-2	
Ethylbenzene	ND	mg/kg	0.0024	1	08/15/17 12:55	08/16/17 01:47	100-41-4	
Toluene	ND	mg/kg	0.0024	1	08/15/17 12:55	08/16/17 01:47	108-88-3	
Xylene (Total)	ND	mg/kg	0.0072	1	08/15/17 12:55	08/16/17 01:47	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%.	70-130	1	08/15/17 12:55	08/16/17 01:47	17060-07-0	
4-Bromofluorobenzene (S)	99	%.	70-130	1	08/15/17 12:55	08/16/17 01:47	460-00-4	
Toluene-d8 (S)	95	%.	70-130	1	08/15/17 12:55	08/16/17 01:47	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**15.3**	%		1		08/18/17 18:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2700**	mg/kg	236	20	08/30/17 14:00	08/31/17 03:42	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-5 (2'-3') **Lab ID: 7571855029** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	11.0	1	08/16/17 11:00	08/24/17 13:01		
Surrogates								
a-Pinene (S)	34	%.	10-87	1	08/16/17 11:00	08/24/17 13:01		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	11.0	1	08/16/17 11:00	08/24/17 13:01		N2
Surrogates								
a-Pinene (S)	38	%.	17-70	1	08/16/17 11:00	08/24/17 13:01		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.1	1	08/16/17 00:00	08/16/17 18:08		
Surrogates								
4-Bromofluorobenzene (S)	102	%	64-122	1	08/16/17 00:00	08/16/17 18:08	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0022	1	08/15/17 12:55	08/16/17 02:12	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	08/15/17 12:55	08/16/17 02:12	100-41-4	
Toluene	ND	mg/kg	0.0022	1	08/15/17 12:55	08/16/17 02:12	108-88-3	
Xylene (Total)	ND	mg/kg	0.0067	1	08/15/17 12:55	08/16/17 02:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	95	%.	70-130	1	08/15/17 12:55	08/16/17 02:12	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	08/15/17 12:55	08/16/17 02:12	460-00-4	
Toluene-d8 (S)	96	%.	70-130	1	08/15/17 12:55	08/16/17 02:12	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**9.9**	%		1		08/18/17 18:15		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2220**	mg/kg	222	20	08/30/17 14:00	08/31/17 03:57	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-5 (4'-5') **Lab ID: 7571855030** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**22.4**	%		1		08/18/17 18:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	129	10	08/15/17 12:03	08/15/17 17:09	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-5 (6'-7') **Lab ID: 7571855031** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**14.2**	%		1		08/18/17 18:16		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	116	10	08/15/17 12:03	08/15/17 17:22	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-5 (9'-10') **Lab ID: 7571855032** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.5**	%		1		08/18/17 18:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	106	10	08/15/17 12:03	08/15/17 17:35	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-5 (14'-15') **Lab ID: 7571855033** Collected: 08/02/17 00:01 Received: 08/10/17 08:45 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	**1160**	mg/kg	500	50	08/16/17 11:00	08/25/17 08:23		1t
Surrogates								
a-Pinene (S)	63	%.	10-87	50	08/16/17 11:00	08/25/17 08:23		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**4610**	mg/kg	500	50	08/16/17 11:00	08/25/17 08:23		N2
Surrogates								
a-Pinene (S)	0	%.	17-70	50	08/16/17 11:00	08/25/17 08:23		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.1	1	08/16/17 00:00	08/16/17 18:24		
Surrogates								
4-Bromofluorobenzene (S)	98	%	64-122	1	08/16/17 00:00	08/16/17 18:24	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0020	1	08/15/17 12:55	08/16/17 02:37	71-43-2	
Ethylbenzene	ND	mg/kg	0.0020	1	08/15/17 12:55	08/16/17 02:37	100-41-4	
Toluene	ND	mg/kg	0.0020	1	08/15/17 12:55	08/16/17 02:37	108-88-3	
Xylene (Total)	ND	mg/kg	0.0061	1	08/15/17 12:55	08/16/17 02:37	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	96	%.	70-130	1	08/15/17 12:55	08/16/17 02:37	17060-07-0	
4-Bromofluorobenzene (S)	111	%.	70-130	1	08/15/17 12:55	08/16/17 02:37	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	08/15/17 12:55	08/16/17 02:37	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**1.3**	%		1		08/18/17 18:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	101	10	08/15/17 12:03	08/15/17 17:48	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-6 (0-6") **Lab ID: 7571855034** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**21400**	mg/kg	1070	100	08/16/17 11:00	08/21/17 15:35		1t
Surrogates								
a-Pinene (S)	206	%.	10-87	100	08/16/17 11:00	08/21/17 15:35		S2
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**15000**	mg/kg	1070	100	08/16/17 11:00	08/21/17 16:11		N2
Surrogates								
a-Pinene (S)	118	%.	17-70	100	08/16/17 11:00	08/21/17 16:11		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**39.7**	mg/kg	11.0	1	08/16/17 00:00	08/16/17 19:12		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	08/16/17 00:00	08/16/17 19:12	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.011	5	08/15/17 12:55	08/16/17 18:07	71-43-2	D3
Ethylbenzene	**0.33**	mg/kg	0.011	5	08/15/17 12:55	08/16/17 18:07	100-41-4	
Toluene	**0.040**	mg/kg	0.011	5	08/15/17 12:55	08/16/17 18:07	108-88-3	
Xylene (Total)	**0.74**	mg/kg	0.033	5	08/15/17 12:55	08/16/17 18:07	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	70-130	5	08/15/17 12:55	08/16/17 18:07	17060-07-0	
4-Bromofluorobenzene (S)	109	%.	70-130	5	08/15/17 12:55	08/16/17 18:07	460-00-4	
Toluene-d8 (S)	97	%.	70-130	5	08/15/17 12:55	08/16/17 18:07	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**8.8**	%		1		08/18/17 18:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**1710**	mg/kg	109	10	08/15/17 12:03	08/15/17 18:01	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-6 (6"-1') **Lab ID: 7571855035** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**201**	mg/kg	112	10	08/16/17 11:00	08/25/17 10:27		1t
Surrogates								
a-Pinene (S)	55	%.	10-87	10	08/16/17 11:00	08/25/17 10:27		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**1410**	mg/kg	112	10	08/16/17 11:00	08/25/17 10:27		N2
Surrogates								
a-Pinene (S)	0	%.	17-70	10	08/16/17 11:00	08/25/17 10:27		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**22.7**	mg/kg	11.4	1	08/16/17 00:00	08/16/17 19:59		
Surrogates								
4-Bromofluorobenzene (S)	85	%	64-122	1	08/16/17 00:00	08/16/17 19:59	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.011	5	08/15/17 12:55	08/17/17 01:47	71-43-2	
Ethylbenzene	**0.012**	mg/kg	0.011	5	08/15/17 12:55	08/17/17 01:47	100-41-4	
Toluene	ND	mg/kg	0.011	5	08/15/17 12:55	08/17/17 01:47	108-88-3	
Xylene (Total)	ND	mg/kg	0.034	5	08/15/17 12:55	08/17/17 01:47	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	70-130	5	08/15/17 12:55	08/17/17 01:47	17060-07-0	D3
4-Bromofluorobenzene (S)	102	%.	70-130	5	08/15/17 12:55	08/17/17 01:47	460-00-4	
Toluene-d8 (S)	97	%.	70-130	5	08/15/17 12:55	08/17/17 01:47	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**12.2**	%		1		08/18/17 18:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**436**	mg/kg	115	10	08/15/17 12:03	08/15/17 18:14	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-6 (2'-3') **Lab ID: 7571855036** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	103	10	08/16/17 11:00	08/25/17 10:58		1t
Surrogates								
a-Pinene (S)	60	%.	10-87	10	08/16/17 11:00	08/25/17 10:58		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**721**	mg/kg	103	10	08/16/17 11:00	08/25/17 10:58		N2
Surrogates								
a-Pinene (S)	0	%.	17-70	10	08/16/17 11:00	08/25/17 10:58		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.5	1	08/16/17 00:00	08/16/17 20:15		
Surrogates								
4-Bromofluorobenzene (S)	90	%	64-122	1	08/16/17 00:00	08/16/17 20:15	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 21:52	71-43-2	
Ethylbenzene	**0.0029**	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 21:52	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/15/17 12:55	08/16/17 21:52	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	08/15/17 12:55	08/16/17 21:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	87	%.	70-130	1	08/15/17 12:55	08/16/17 21:52	17060-07-0	
4-Bromofluorobenzene (S)	104	%.	70-130	1	08/15/17 12:55	08/16/17 21:52	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	08/15/17 12:55	08/16/17 21:52	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**5.1**	%		1		08/18/17 18:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**209**	mg/kg	106	10	08/15/17 12:03	08/15/17 18:52	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
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(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-6 (4'-5') **Lab ID: 7571855037** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**3.9**	%		1		08/18/17 18:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**283**	mg/kg	105	10	08/15/17 12:03	08/15/17 19:05	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-6 (6'-7') **Lab ID: 7571855038** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**10.5**	%		1		08/18/17 18:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**764**	mg/kg	112	10	08/15/17 12:03	08/15/17 19:18	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-6 (9'-10') **Lab ID: 7571855039** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**0.78**	%		1		08/18/17 18:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	101	10	08/15/17 12:03	08/15/17 19:31	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-6 (14'-15') **Lab ID: 7571855040** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**173**	mg/kg	10.7	1	08/16/17 11:00	08/24/17 13:34		1t
Surrogates								
a-Pinene (S)	35	%.	10-87	1	08/16/17 11:00	08/24/17 13:34		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**125**	mg/kg	10.7	1	08/16/17 11:00	08/24/17 13:34		N2
Surrogates								
a-Pinene (S)	40	%.	17-70	1	08/16/17 11:00	08/24/17 13:34		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.8	1	08/16/17 00:00	08/16/17 20:31		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	08/16/17 00:00	08/16/17 20:31	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0022	1	08/15/17 12:55	08/16/17 22:43	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	08/15/17 12:55	08/16/17 22:43	100-41-4	
Toluene	ND	mg/kg	0.0022	1	08/15/17 12:55	08/16/17 22:43	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	08/15/17 12:55	08/16/17 22:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	85	%.	70-130	1	08/15/17 12:55	08/16/17 22:43	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	08/15/17 12:55	08/16/17 22:43	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	08/15/17 12:55	08/16/17 22:43	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**8.1**	%		1		08/18/17 18:20		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	108	10	08/15/17 12:03	08/15/17 19:44	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-7 (0-1') **Lab ID: 7571855041** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**3170**	mg/kg	598	50	08/17/17 19:45	08/25/17 05:19		1t,M1,R1
Surrogates								
a-Pinene (S)	146	%.	10-87	50	08/17/17 19:45	08/25/17 05:19		S2
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**2700**	mg/kg	598	50	08/17/17 19:45	08/25/17 05:19		M3,N2, R1
Surrogates								
a-Pinene (S)	0	%.	17-70	50	08/17/17 19:45	08/25/17 05:19		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**737**	mg/kg	61.0	5	08/16/17 00:00	08/16/17 20:48		
Surrogates								
4-Bromofluorobenzene (S)	103	%	64-122	5	08/16/17 00:00	08/16/17 20:48	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	**0.23**	mg/kg	0.012	5	08/15/17 12:55	08/17/17 02:13	71-43-2	
Ethylbenzene	**4.6**	mg/kg	1.2	500	08/15/17 12:55	08/17/17 13:32	100-41-4	
Toluene	**10.3**	mg/kg	1.2	500	08/15/17 12:55	08/17/17 13:32	108-88-3	
Xylene (Total)	**56.0**	mg/kg	3.6	500	08/15/17 12:55	08/17/17 13:32	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	70-130	5	08/15/17 12:55	08/17/17 02:13	17060-07-0	
4-Bromofluorobenzene (S)	105	%.	70-130	500	08/15/17 12:55	08/17/17 13:32	460-00-4	
Toluene-d8 (S)	95	%.	70-130	5	08/15/17 12:55	08/17/17 02:13	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**17.8**	%		1		08/18/17 18:34		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**553**	mg/kg	121	10	08/15/17 12:09	08/15/17 20:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-7 (2'-3') **Lab ID: 7571855042** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**122**	mg/kg	28.4	5	08/17/17 19:45	08/25/17 13:07		1t
Surrogates								
a-Pinene (S)	43	%.	10-87	5	08/17/17 19:45	08/25/17 13:07		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**144**	mg/kg	28.4	5	08/17/17 19:45	08/25/17 13:07		N2
Surrogates								
a-Pinene (S)	13	%.	17-70	5	08/17/17 19:45	08/25/17 13:07		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**13.3**	mg/kg	11.6	1	08/16/17 00:00	08/16/17 21:04		
Surrogates								
4-Bromofluorobenzene (S)	90	%	64-122	1	08/16/17 00:00	08/16/17 21:04	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:24	71-43-2	
Ethylbenzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:24	100-41-4	
Toluene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:24	108-88-3	
Xylene (Total)	ND	mg/kg	0.035	5	08/16/17 18:00	08/17/17 14:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	82	%.	70-130	5	08/16/17 18:00	08/17/17 14:24	17060-07-0	D3
4-Bromofluorobenzene (S)	98	%.	70-130	5	08/16/17 18:00	08/17/17 14:24	460-00-4	
Toluene-d8 (S)	95	%.	70-130	5	08/16/17 18:00	08/17/17 14:24	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**13.4**	%		1		08/18/17 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**460**	mg/kg	116	10	08/15/17 12:09	08/15/17 21:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-7 (4'-5') **Lab ID: 7571855043** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**1460**	mg/kg	53.4	10	08/17/17 19:45	08/21/17 12:06		1t
Surrogates								
a-Pinene (S)	54	%.	10-87	10	08/17/17 19:45	08/21/17 12:06		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**880**	mg/kg	53.4	10	08/17/17 19:45	08/21/17 12:41		N2
Surrogates								
a-Pinene (S)	68	%.	17-70	10	08/17/17 19:45	08/21/17 12:41		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**11.3**	mg/kg	10.9	1	08/16/17 00:00	08/16/17 21:20		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	08/16/17 00:00	08/16/17 21:20	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 14:48	71-43-2	
Ethylbenzene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 14:48	100-41-4	
Toluene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 14:48	108-88-3	
Xylene (Total)	**0.057**	mg/kg	0.033	5	08/16/17 18:00	08/17/17 14:48	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	81	%.	70-130	5	08/16/17 18:00	08/17/17 14:48	17060-07-0	D3
4-Bromofluorobenzene (S)	105	%.	70-130	5	08/16/17 18:00	08/17/17 14:48	460-00-4	
Toluene-d8 (S)	95	%.	70-130	5	08/16/17 18:00	08/17/17 14:48	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**8.1**	%		1		08/18/17 18:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**300**	mg/kg	108	10	08/15/17 12:09	08/15/17 21:53	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-7 (6'-7') **Lab ID: 7571855044** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**13.4**	%		1		08/18/17 18:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**688**	mg/kg	115	10	08/15/17 12:09	08/15/17 22:06	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-7 (9'-10') **Lab ID: 7571855045** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**13.8**	%		1		08/18/17 18:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	116	10	08/15/17 12:09	08/15/17 22:19	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-7 (14'-15') **Lab ID: 7571855046** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**0.50**	%		1		08/18/17 18:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	99.9	10	08/15/17 12:09	08/15/17 22:32	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-7 (19'-20') **Lab ID: 7571855047** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**38.2**	mg/kg	5.3	1	08/17/17 19:45	08/24/17 10:20		1t
Surrogates								
a-Pinene (S)	30	%.	10-87	1	08/17/17 19:45	08/24/17 10:20		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**36.2**	mg/kg	5.3	1	08/17/17 19:45	08/24/17 10:20		N2
Surrogates								
a-Pinene (S)	35	%.	17-70	1	08/17/17 19:45	08/24/17 10:20		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	08/16/17 00:00	08/16/17 21:36		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	08/16/17 00:00	08/16/17 21:36	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 13:56	71-43-2	
Ethylbenzene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 13:56	100-41-4	
Toluene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 13:56	108-88-3	
Xylene (Total)	ND	mg/kg	0.032	5	08/16/17 18:00	08/17/17 13:56	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	70-130	5	08/16/17 18:00	08/17/17 13:56	17060-07-0	D3
4-Bromofluorobenzene (S)	104	%.	70-130	5	08/16/17 18:00	08/17/17 13:56	460-00-4	
Toluene-d8 (S)	100	%.	70-130	5	08/16/17 18:00	08/17/17 13:56	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.4**	%		1		08/18/17 18:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	108	10	08/15/17 12:09	08/15/17 22:45	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-8 (0-6") **Lab ID: 7571855048** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**29.0**	%		1		08/18/17 18:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**6850**	mg/kg	704	50	08/30/17 14:00	08/31/17 04:13	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-8 (6"-1') **Lab ID: 7571855049** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**1270**	mg/kg	28.7	5	08/17/17 19:45	08/21/17 09:51		1t
Surrogates								
a-Pinene (S)	71	%.	10-87	5	08/17/17 19:45	08/21/17 09:51		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**536**	mg/kg	28.7	5	08/17/17 19:45	08/21/17 10:24		N2
Surrogates								
a-Pinene (S)	81	%.	17-70	5	08/17/17 19:45	08/21/17 10:24		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**87.5**	mg/kg	11.7	1	08/16/17 00:00	08/17/17 12:14		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	08/16/17 00:00	08/17/17 12:14	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:19	71-43-2	D3
Ethylbenzene	**0.38**	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:19	100-41-4	
Toluene	**0.15**	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:19	108-88-3	
Xylene (Total)	**1.2**	mg/kg	0.035	5	08/16/17 18:00	08/17/17 14:19	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	70-130	5	08/16/17 18:00	08/17/17 14:19	17060-07-0	
4-Bromofluorobenzene (S)	92	%.	70-130	5	08/16/17 18:00	08/17/17 14:19	460-00-4	
Toluene-d8 (S)	101	%.	70-130	5	08/16/17 18:00	08/17/17 14:19	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**14.4**	%		1		08/18/17 18:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2260**	mg/kg	234	20	08/30/17 14:00	08/31/17 04:28	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-8 (2'-3') **Lab ID: 7571855050** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**93.5**	mg/kg	28.6	5	08/17/17 19:45	08/25/17 14:12		1t
Surrogates								
a-Pinene (S)	39	%.	10-87	5	08/17/17 19:45	08/25/17 14:12		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**58.8**	mg/kg	28.6	5	08/17/17 19:45	08/25/17 14:12		N2
Surrogates								
a-Pinene (S)	7	%.	17-70	5	08/17/17 19:45	08/25/17 14:12		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**18.5**	mg/kg	11.5	1	08/16/17 00:00	08/17/17 12:30		
Surrogates								
4-Bromofluorobenzene (S)	102	%	64-122	1	08/16/17 00:00	08/17/17 12:30	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:42	71-43-2	
Ethylbenzene	**0.017**	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:42	100-41-4	
Toluene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 14:42	108-88-3	
Xylene (Total)	**0.059**	mg/kg	0.035	5	08/16/17 18:00	08/17/17 14:42	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	70-130	5	08/16/17 18:00	08/17/17 14:42	17060-07-0	D3
4-Bromofluorobenzene (S)	101	%.	70-130	5	08/16/17 18:00	08/17/17 14:42	460-00-4	
Toluene-d8 (S)	101	%.	70-130	5	08/16/17 18:00	08/17/17 14:42	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**13.4**	%		1		08/18/17 18:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**516**	mg/kg	115	10	08/15/17 12:09	08/15/17 23:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-8 (4'-5') **Lab ID: 7571855051** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**12.5**	%		1		08/18/17 18:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**148**	mg/kg	114	10	08/15/17 12:09	08/16/17 00:02	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-8 (6'-7') **Lab ID: 7571855052** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**9.3**	%		1		08/18/17 18:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	110	10	08/15/17 12:09	08/16/17 00:15	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-8 (9'-10') **Lab ID: 7571855053** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**4.6**	%		1		08/18/17 18:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	106	10	08/15/17 12:09	08/16/17 00:28	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-8 (14'-15') **Lab ID: 7571855054** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**9.9**	mg/kg	5.5	1	08/17/17 19:45	08/24/17 10:52		
Surrogates								
a-Pinene (S)	33	%.	10-87	1	08/17/17 19:45	08/24/17 10:52		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	5.5	1	08/17/17 19:45	08/24/17 10:52		N2
Surrogates								
a-Pinene (S)	37	%.	17-70	1	08/17/17 19:45	08/24/17 10:52		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.1	1	08/16/17 00:00	08/17/17 12:46		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	08/16/17 00:00	08/17/17 12:46	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 15:06	71-43-2	
Ethylbenzene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 15:06	100-41-4	
Toluene	ND	mg/kg	0.011	5	08/16/17 18:00	08/17/17 15:06	108-88-3	
Xylene (Total)	ND	mg/kg	0.033	5	08/16/17 18:00	08/17/17 15:06	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%.	70-130	5	08/16/17 18:00	08/17/17 15:06	17060-07-0	D3
4-Bromofluorobenzene (S)	105	%.	70-130	5	08/16/17 18:00	08/17/17 15:06	460-00-4	
Toluene-d8 (S)	101	%.	70-130	5	08/16/17 18:00	08/17/17 15:06	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**10.2**	%		1		08/18/17 18:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	112	10	08/15/17 12:09	08/16/17 00:41	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-9 (0-1') **Lab ID: 7571855055** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**16600**	mg/kg	607	100	08/17/17 19:45	08/21/17 14:25		1t
Surrogates								
a-Pinene (S)	125	%.	10-87	100	08/17/17 19:45	08/21/17 14:25		S2
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**10500**	mg/kg	607	100	08/17/17 19:45	08/21/17 15:00		N2
Surrogates								
a-Pinene (S)	118	%.	17-70	100	08/17/17 19:45	08/21/17 15:00		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**33.1**	mg/kg	12.2	1	08/16/17 00:00	08/17/17 13:03		
Surrogates								
4-Bromofluorobenzene (S)	88	%	64-122	1	08/16/17 00:00	08/17/17 13:03	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 15:14	71-43-2	
Ethylbenzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 15:14	100-41-4	
Toluene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 15:14	108-88-3	
Xylene (Total)	**0.19**	mg/kg	0.037	5	08/16/17 18:00	08/17/17 15:14	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	89	%.	70-130	5	08/16/17 18:00	08/17/17 15:14	17060-07-0	D3
4-Bromofluorobenzene (S)	119	%.	70-130	5	08/16/17 18:00	08/17/17 15:14	460-00-4	
Toluene-d8 (S)	99	%.	70-130	5	08/16/17 18:00	08/17/17 15:14	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**19.0**	%		1		08/18/17 18:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2220**	mg/kg	124	10	08/15/17 12:09	08/16/17 00:54	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-9 (2-3') **Lab ID: 7571855056** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	**637**	mg/kg	29.0	5	08/17/17 19:45	08/21/17 10:58		1t
Surrogates								
a-Pinene (S)	60	%.	10-87	5	08/17/17 19:45	08/21/17 10:58		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**372**	mg/kg	29.0	5	08/17/17 19:45	08/21/17 11:32		N2
Surrogates								
a-Pinene (S)	58	%.	17-70	5	08/17/17 19:45	08/21/17 11:32		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**29.7**	mg/kg	11.9	1	08/16/17 00:00	08/17/17 13:19		
Surrogates								
4-Bromofluorobenzene (S)	96	%	64-122	1	08/16/17 00:00	08/17/17 13:19	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 13:59	71-43-2	
Ethylbenzene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 13:59	100-41-4	
Toluene	ND	mg/kg	0.012	5	08/16/17 18:00	08/17/17 13:59	108-88-3	
Xylene (Total)	ND	mg/kg	0.035	5	08/16/17 18:00	08/17/17 13:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	83	%.	70-130	5	08/16/17 18:00	08/17/17 13:59	17060-07-0	D3
4-Bromofluorobenzene (S)	101	%.	70-130	5	08/16/17 18:00	08/17/17 13:59	460-00-4	
Toluene-d8 (S)	95	%.	70-130	5	08/16/17 18:00	08/17/17 13:59	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**15.3**	%		1		08/18/17 18:40		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**194**	mg/kg	118	10	08/15/17 12:09	08/16/17 01:07	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-9 (4'-5') **Lab ID: 7571855057** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**4.5**	%		1		08/18/17 18:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**466**	mg/kg	106	10	08/15/17 12:09	08/16/17 01:20	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-9 (6'-7') **Lab ID: 7571855058** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**4.5**	%		1		08/18/17 18:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**194**	mg/kg	105	10	08/15/17 12:09	08/16/17 01:32	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-9 (9'-10') **Lab ID: 7571855059** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.1**	%		1		08/18/17 18:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**195**	mg/kg	106	10	08/15/17 12:09	08/16/17 01:45	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Sample: SB-9 (14-15') **Lab ID: 7571855060** Collected: 08/03/17 00:01 Received: 08/10/17 08:45 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	ND	mg/kg	5.0	1	08/17/17 19:45	08/24/17 15:11		
Surrogates								
a-Pinene (S)	37	%.	10-87	1	08/17/17 19:45	08/24/17 15:11		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**8.0**	mg/kg	5.0	1	08/17/17 19:45	08/24/17 15:11		N2
Surrogates								
a-Pinene (S)	44	%.	17-70	1	08/17/17 19:45	08/24/17 15:11		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.2	1	08/16/17 00:00	08/17/17 13:35		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	08/16/17 00:00	08/17/17 13:35	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0021	1	08/16/17 18:00	08/16/17 22:17	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	08/16/17 18:00	08/16/17 22:17	100-41-4	
Toluene	ND	mg/kg	0.0021	1	08/16/17 18:00	08/16/17 22:17	108-88-3	
Xylene (Total)	ND	mg/kg	0.0062	1	08/16/17 18:00	08/16/17 22:17	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	90	%.	70-130	1	08/16/17 18:00	08/16/17 22:17	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	08/16/17 18:00	08/16/17 22:17	460-00-4	
Toluene-d8 (S)	96	%.	70-130	1	08/16/17 18:00	08/16/17 22:17	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**2.3**	%		1		08/18/17 18:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	ND	mg/kg	102	10	08/15/17 12:09	08/16/17 01:58	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(972)727-1123

QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 489904 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027

METHOD BLANK: 2005487 Matrix: Solid
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/15/17 11:12	
4-Bromofluorobenzene (S)	%	108	64-122	08/15/17 11:12	

LABORATORY CONTROL SAMPLE: 2005488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	56.4	113	85-130	
4-Bromofluorobenzene (S)	%			105	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2005489 2005490

Parameter	Units	60250495001 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	485	289	289	903	829	145	119	85-125	9	12	M1
4-Bromofluorobenzene (S)	%						100	100	64-122			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 490181 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040, 7571855041, 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

METHOD BLANK: 2006618 Matrix: Solid
Associated Lab Samples: 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040, 7571855041, 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/16/17 15:02	
4-Bromofluorobenzene (S)	%	103	64-122	08/16/17 15:02	

METHOD BLANK: 2007359 Matrix: Solid
Associated Lab Samples: 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/17/17 11:21	
4-Bromofluorobenzene (S)	%	94	64-122	08/17/17 11:21	

LABORATORY CONTROL SAMPLE: 2006619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	56.0	112	85-130	
4-Bromofluorobenzene (S)	%			104	64-122	

LABORATORY CONTROL SAMPLE: 2007360

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	51.1	102	85-130	
4-Bromofluorobenzene (S)	%			101	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2006620 2006621

Parameter	Units	7571855034 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	39.7	54.8	54.8	102	99.2	113	109	85-125	3	12	
4-Bromofluorobenzene (S)	%						84	84	64-122			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81780 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level
Associated Lab Samples: 7571855001

METHOD BLANK: 359564 Matrix: Solid
Associated Lab Samples: 7571855001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	08/15/17 22:42	
Ethylbenzene	mg/kg	ND	0.0020	08/15/17 22:42	
Toluene	mg/kg	ND	0.0020	08/15/17 22:42	
Xylene (Total)	mg/kg	ND	0.0060	08/15/17 22:42	
1,2-Dichloroethane-d4 (S)	%.	105	70-130	08/15/17 22:42	
4-Bromofluorobenzene (S)	%.	105	70-130	08/15/17 22:42	
Toluene-d8 (S)	%.	100	70-130	08/15/17 22:42	

LABORATORY CONTROL SAMPLE: 359565

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.019	97	74-130	
Ethylbenzene	mg/kg	.02	0.019	96	77-127	
Toluene	mg/kg	.02	0.019	96	74-127	
Xylene (Total)	mg/kg	.06	0.055	91	74-128	
1,2-Dichloroethane-d4 (S)	%.			108	70-130	
4-Bromofluorobenzene (S)	%.			101	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 359566 359567

Parameter	Units	7571697001 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	.021	.021	0.020	0.019	98	91	32-152	6	20	
Ethylbenzene	mg/kg	ND	.021	.021	0.019	0.018	93	85	18-166	7	20	
Toluene	mg/kg	ND	.021	.021	0.020	0.018	96	88	18-166	8	20	
Xylene (Total)	mg/kg	ND	.062	.062	0.057	0.052	91	83	10-172	9	20	
1,2-Dichloroethane-d4 (S)	%.						108	106	70-130			
4-Bromofluorobenzene (S)	%.						103	101	70-130			
Toluene-d8 (S)	%.						101	102	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81781 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level
Associated Lab Samples: 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027, 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040, 7571855041

METHOD BLANK: 359568 Matrix: Solid
Associated Lab Samples: 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027, 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040, 7571855041

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	08/15/17 11:29	
Ethylbenzene	mg/kg	ND	0.0020	08/15/17 11:29	
Toluene	mg/kg	ND	0.0020	08/15/17 11:29	
Xylene (Total)	mg/kg	ND	0.0060	08/15/17 11:29	
1,2-Dichloroethane-d4 (S)	%.	95	70-130	08/15/17 11:29	
4-Bromofluorobenzene (S)	%.	100	70-130	08/15/17 11:29	
Toluene-d8 (S)	%.	100	70-130	08/15/17 11:29	

LABORATORY CONTROL SAMPLE: 359569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.019	94	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	0.059	99	74-128	
1,2-Dichloroethane-d4 (S)	%.			97	70-130	
4-Bromofluorobenzene (S)	%.			100	70-130	
Toluene-d8 (S)	%.			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 359570 359571

Parameter	Units	7571855010 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	.02	.02	0.021	0.020	102	96	32-152	6	20	
Ethylbenzene	mg/kg	ND	.02	.02	0.023	0.021	110	104	18-166	6	20	
Toluene	mg/kg	ND	.02	.02	0.021	0.020	104	99	18-166	5	20	
Xylene (Total)	mg/kg	ND	.062	.061	0.066	0.063	107	102	10-172	5	20	
1,2-Dichloroethane-d4 (S)	%.						95	97	70-130			
4-Bromofluorobenzene (S)	%.						99	98	70-130			
Toluene-d8 (S)	%.						101	100	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81797 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level
Associated Lab Samples: 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

METHOD BLANK: 359724 Matrix: Solid
Associated Lab Samples: 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	08/16/17 21:26	
Ethylbenzene	mg/kg	ND	0.0020	08/16/17 21:26	
Toluene	mg/kg	ND	0.0020	08/16/17 21:26	
Xylene (Total)	mg/kg	ND	0.0060	08/16/17 21:26	
1,2-Dichloroethane-d4 (S)	%.	88	70-130	08/16/17 21:26	
4-Bromofluorobenzene (S)	%.	101	70-130	08/16/17 21:26	
Toluene-d8 (S)	%.	95	70-130	08/16/17 21:26	

LABORATORY CONTROL SAMPLE: 359725

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.05	0.050	100	74-130	
Ethylbenzene	mg/kg	.05	0.050	100	77-127	
Toluene	mg/kg	.05	0.048	96	74-127	
Xylene (Total)	mg/kg	.15	0.14	96	74-128	
1,2-Dichloroethane-d4 (S)	%.			85	70-130	
4-Bromofluorobenzene (S)	%.			99	70-130	
Toluene-d8 (S)	%.			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 359726 359727

Parameter	Units	7571855042 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	.058	.058	0.056	0.057	98	100	32-152	1	20	
Ethylbenzene	mg/kg	ND	.058	.057	0.056	0.055	97	96	18-166	1	20	
Toluene	mg/kg	ND	.058	.058	0.054	0.054	94	94	18-166	1	20	
Xylene (Total)	mg/kg	ND	.17	.17	0.16	0.16	94	94	10-172	1	20	
1,2-Dichloroethane-d4 (S)	%.						85	87	70-130			
4-Bromofluorobenzene (S)	%.						100	96	70-130			
Toluene-d8 (S)	%.						99	97	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81842 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027, 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040

METHOD BLANK: 359927 Matrix: Solid
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027, 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	3.3	08/23/17 22:30	
a-Pinene (S)	%.	38	10-87	08/23/17 22:30	

LABORATORY CONTROL SAMPLE: 359928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.3	22.3	67	42-124	
a-Pinene (S)	%.			40	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 359929 359930

Parameter	Units	7571855001 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	42200	24700	24800	57500	42600	62	2	10-172	30	20	M1,R1
a-Pinene (S)	%.						169	72	10-87			S2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81971 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7571855041, 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

METHOD BLANK: 360757 Matrix: Solid
Associated Lab Samples: 7571855041, 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	3.3	08/23/17 23:01	
a-Pinene (S)	%.	33	10-87	08/23/17 23:01	

LABORATORY CONTROL SAMPLE: 360758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.2	18.2	55	42-124	
a-Pinene (S)	%.			34	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 360759 360760

Parameter	Units	7571855041 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	3170	6060	6030	1220	5870	-32	45	10-172	131	20	M1,R1
a-Pinene (S)	%.						88	166	10-87			S2

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
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(972)727-1123

QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81843 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027, 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040

METHOD BLANK: 359935 Matrix: Solid
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855007, 7571855009, 7571855010, 7571855014, 7571855015, 7571855016, 7571855020, 7571855022, 7571855023, 7571855027, 7571855028, 7571855029, 7571855033, 7571855034, 7571855035, 7571855036, 7571855040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	3.3	08/23/17 21:59	N2
a-Pinene (S)	%.	43	17-70	08/23/17 21:59	

LABORATORY CONTROL SAMPLE: 359936

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.3	29.8	90	48-145	N2
a-Pinene (S)	%.			45	17-70	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 359937 359938

Parameter	Units	7571855001 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	37000	24800	24800	38900	36900	8	0	10-196	5	40	M3,N2
a-Pinene (S)	%.						0	0	17-70			S2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81972 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7571855041, 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

METHOD BLANK: 360761 Matrix: Solid
Associated Lab Samples: 7571855041, 7571855042, 7571855043, 7571855047, 7571855049, 7571855050, 7571855054, 7571855055, 7571855056, 7571855060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	3.3	08/23/17 21:28	N2
a-Pinene (S)	%.	42	17-70	08/23/17 21:28	

LABORATORY CONTROL SAMPLE: 360762

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.2	26.9	81	48-145	N2
a-Pinene (S)	%.			42	17-70	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 360763 360764

Parameter	Units	7571855041 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	2700	6020	5970	4450	2520	29	-3	10-196	55	40	M3,N2, R1
a-Pinene (S)	%.						0	0	17-70			S2

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81981 Analysis Method: ASTM D2974-07
QC Batch Method: ASTM D2974-07 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855004, 7571855005, 7571855006, 7571855007, 7571855008, 7571855009, 7571855010, 7571855011, 7571855012, 7571855013, 7571855014, 7571855015, 7571855016, 7571855017, 7571855018, 7571855019, 7571855020

SAMPLE DUPLICATE: 360830

Parameter	Units	7571855001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	20.2	21.1	4	20	

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81983 Analysis Method: ASTM D2974-07
QC Batch Method: ASTM D2974-07 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7571855021, 7571855022, 7571855023, 7571855024, 7571855025, 7571855026, 7571855027, 7571855028, 7571855029, 7571855030, 7571855031, 7571855032, 7571855033, 7571855034, 7571855035, 7571855036, 7571855037, 7571855038, 7571855039, 7571855040

SAMPLE DUPLICATE: 360837

Parameter	Units	7571855021 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.7	21.5	9	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 81984 Analysis Method: ASTM D2974-07
QC Batch Method: ASTM D2974-07 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7571855041, 7571855042, 7571855043, 7571855044, 7571855045, 7571855046, 7571855047, 7571855048, 7571855049, 7571855050, 7571855051, 7571855052, 7571855053, 7571855054, 7571855055, 7571855056, 7571855057, 7571855058, 7571855059, 7571855060

SAMPLE DUPLICATE: 360838

Parameter	Units	7571855041 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.8	17.5	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 492200 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855004, 7571855005, 7571855006, 7571855007, 7571855008, 7571855009, 7571855010, 7571855011, 7571855012, 7571855013, 7571855014, 7571855015, 7571855016, 7571855017, 7571855018, 7571855019, 7571855020

METHOD BLANK: 2014110 Matrix: Solid
Associated Lab Samples: 7571855001, 7571855002, 7571855003, 7571855004, 7571855005, 7571855006, 7571855007, 7571855008, 7571855009, 7571855010, 7571855011, 7571855012, 7571855013, 7571855014, 7571855015, 7571855016, 7571855017, 7571855018, 7571855019, 7571855020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/15/17 09:00	

LABORATORY CONTROL SAMPLE: 2014111

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	497	99	90-110	

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 492201 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7571855021, 7571855022, 7571855023, 7571855024, 7571855025, 7571855026, 7571855027, 7571855028, 7571855029, 7571855030, 7571855031, 7571855032, 7571855033, 7571855034, 7571855035, 7571855036, 7571855037, 7571855038, 7571855039, 7571855040

METHOD BLANK: 2014115 Matrix: Solid
Associated Lab Samples: 7571855021, 7571855022, 7571855023, 7571855024, 7571855025, 7571855026, 7571855027, 7571855028, 7571855029, 7571855030, 7571855031, 7571855032, 7571855033, 7571855034, 7571855035, 7571855036, 7571855037, 7571855038, 7571855039, 7571855040

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/15/17 13:43	

LABORATORY CONTROL SAMPLE: 2014116

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	484	97	90-110	

MATRIX SPIKE SAMPLE: 2014119

Parameter	Units	7571855022 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	ND	583	620	93	80-120	

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 492202 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7571855041, 7571855042, 7571855043, 7571855044, 7571855045, 7571855046, 7571855047, 7571855048, 7571855049, 7571855050, 7571855051, 7571855052, 7571855053, 7571855054, 7571855055, 7571855056, 7571855057, 7571855058, 7571855059, 7571855060

METHOD BLANK: 2014120 Matrix: Solid
Associated Lab Samples: 7571855041, 7571855042, 7571855043, 7571855044, 7571855045, 7571855046, 7571855047, 7571855048, 7571855049, 7571855050, 7571855051, 7571855052, 7571855053, 7571855054, 7571855055, 7571855056, 7571855057, 7571855058, 7571855059, 7571855060

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/15/17 19:57	

LABORATORY CONTROL SAMPLE: 2014121

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	489	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2014122 2014123

Parameter	Units	7571855041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	553	603	613	1170	1180	102	103	80-120	1	15	

MATRIX SPIKE SAMPLE: 2014124

Parameter	Units	7571855042 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	460	576	1050	102	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

QC Batch: 492230 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7571855001, 7571855002, 7571855008, 7571855015, 7571855021, 7571855028, 7571855029, 7571855048, 7571855049

METHOD BLANK: 2014184 Matrix: Solid
Associated Lab Samples: 7571855001, 7571855002, 7571855008, 7571855015, 7571855021, 7571855028, 7571855029, 7571855048, 7571855049

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/31/17 00:52	

LABORATORY CONTROL SAMPLE: 2014185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	486	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2014186 2014187

Parameter	Units	7571855008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	11500	569	569	13000	12700	254	218	80-120	2	15	M1

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

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	The reported results may be elevated due to the presence of oil in the sample.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
H2	Extraction or preparation conducted outside EPA method holding time.
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.
S2	Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7571855001	SB-1 (0-6")	EPA 3546	81842	EPA 8015B	82058
7571855002	SB-1 (6"-1')	EPA 3546	81842	EPA 8015B	82058
7571855003	SB-1 (2'-3')	EPA 3546	81842	EPA 8015B	82058
7571855007	SB-1 (14'-15')	EPA 3546	81842	EPA 8015B	82058
7571855009	SB-2 (0-1')	EPA 3546	81842	EPA 8015B	82058
7571855010	SB-2 (2'-3')	EPA 3546	81842	EPA 8015B	82058
7571855014	SB-2 (14'-15')	EPA 3546	81842	EPA 8015B	82058
7571855015	SB-3 (0-1')	EPA 3546	81842	EPA 8015B	82058
7571855016	SB-3 (2'-3')	EPA 3546	81842	EPA 8015B	82058
7571855020	SB-3 (14'-15')	EPA 3546	81842	EPA 8015B	82058
7571855022	SB-4 (6"-1')	EPA 3546	81842	EPA 8015B	82058
7571855023	SB-4 (2'-3')	EPA 3546	81842	EPA 8015B	82058
7571855027	SB-4 (14'-15')	EPA 3546	81842	EPA 8015B	82058
7571855028	SB-5 (0-1')	EPA 3546	81842	EPA 8015B	82058
7571855029	SB-5 (2'-3')	EPA 3546	81842	EPA 8015B	82058
7571855033	SB-5 (14'-15')	EPA 3546	81842	EPA 8015B	82058
7571855034	SB-6 (0-6")	EPA 3546	81842	EPA 8015B	82058
7571855035	SB-6 (6"-1')	EPA 3546	81842	EPA 8015B	82058
7571855036	SB-6 (2'-3')	EPA 3546	81842	EPA 8015B	82058
7571855040	SB-6 (14'-15')	EPA 3546	81842	EPA 8015B	82058
7571855041	SB-7 (0-1')	EPA 3546	81971	EPA 8015B	82060
7571855042	SB-7 (2'-3')	EPA 3546	81971	EPA 8015B	82060
7571855043	SB-7 (4'-5')	EPA 3546	81971	EPA 8015B	82060
7571855047	SB-7 (19'-20')	EPA 3546	81971	EPA 8015B	82060
7571855049	SB-8 (6"-1')	EPA 3546	81971	EPA 8015B	82060
7571855050	SB-8 (2'-3')	EPA 3546	81971	EPA 8015B	82060
7571855054	SB-8 (14'-15')	EPA 3546	81971	EPA 8015B	82060
7571855055	SB-9 (0-1')	EPA 3546	81971	EPA 8015B	82060
7571855056	SB-9 (2-3')	EPA 3546	81971	EPA 8015B	82060
7571855060	SB-9 (14-15')	EPA 3546	81971	EPA 8015B	82060
7571855001	SB-1 (0-6")	EPA 3546	81843	EPA 8015B Modified	82059
7571855002	SB-1 (6"-1')	EPA 3546	81843	EPA 8015B Modified	82059
7571855003	SB-1 (2'-3')	EPA 3546	81843	EPA 8015B Modified	82059
7571855007	SB-1 (14'-15')	EPA 3546	81843	EPA 8015B Modified	82059
7571855009	SB-2 (0-1')	EPA 3546	81843	EPA 8015B Modified	82059
7571855010	SB-2 (2'-3')	EPA 3546	81843	EPA 8015B Modified	82059
7571855014	SB-2 (14'-15')	EPA 3546	81843	EPA 8015B Modified	82059
7571855015	SB-3 (0-1')	EPA 3546	81843	EPA 8015B Modified	82059
7571855016	SB-3 (2'-3')	EPA 3546	81843	EPA 8015B Modified	82059
7571855020	SB-3 (14'-15')	EPA 3546	81843	EPA 8015B Modified	82059
7571855022	SB-4 (6"-1')	EPA 3546	81843	EPA 8015B Modified	82059
7571855023	SB-4 (2'-3')	EPA 3546	81843	EPA 8015B Modified	82059
7571855027	SB-4 (14'-15')	EPA 3546	81843	EPA 8015B Modified	82059
7571855028	SB-5 (0-1')	EPA 3546	81843	EPA 8015B Modified	82059
7571855029	SB-5 (2'-3')	EPA 3546	81843	EPA 8015B Modified	82059
7571855033	SB-5 (14'-15')	EPA 3546	81843	EPA 8015B Modified	82059
7571855034	SB-6 (0-6")	EPA 3546	81843	EPA 8015B Modified	82059
7571855035	SB-6 (6"-1')	EPA 3546	81843	EPA 8015B Modified	82059

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7571855036	**SB-6 (2'-3')**	EPA 3546	81843	EPA 8015B Modified	82059
7571855040	**SB-6 (14'-15')**	EPA 3546	81843	EPA 8015B Modified	82059
7571855041	**SB-7 (0-1')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855042	**SB-7 (2'-3')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855043	**SB-7 (4'-5')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855047	**SB-7 (19'-20')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855049	**SB-8 (6"-1')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855050	**SB-8 (2'-3')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855054	**SB-8 (14'-15')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855055	**SB-9 (0-1')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855056	**SB-9 (2-3')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855060	**SB-9 (14-15')**	EPA 3546	81972	EPA 8015B Modified	82061
7571855001	**SB-1 (0-6")**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855002	**SB-1 (6"-1')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855003	**SB-1 (2'-3')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855007	**SB-1 (14'-15')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855009	**SB-2 (0-1')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855010	**SB-2 (2'-3')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855014	**SB-2 (14'-15')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855015	**SB-3 (0-1')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855016	**SB-3 (2'-3')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855020	**SB-3 (14'-15')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855022	**SB-4 (6"-1')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855023	**SB-4 (2'-3')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855027	**SB-4 (14'-15')**	EPA 5035A/5030B	489904	EPA 8015B	490163
7571855028	**SB-5 (0-1')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855029	**SB-5 (2'-3')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855033	**SB-5 (14'-15')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855034	**SB-6 (0-6")**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855035	**SB-6 (6"-1')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855036	**SB-6 (2'-3')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855040	**SB-6 (14'-15')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855041	**SB-7 (0-1')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855042	**SB-7 (2'-3')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855043	**SB-7 (4'-5')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855047	**SB-7 (19'-20')**	EPA 5035A/5030B	490181	EPA 8015B	490373
7571855049	**SB-8 (6"-1')**	EPA 5035A/5030B	490181	EPA 8015B	490375
7571855050	**SB-8 (2'-3')**	EPA 5035A/5030B	490181	EPA 8015B	490375
7571855054	**SB-8 (14'-15')**	EPA 5035A/5030B	490181	EPA 8015B	490375
7571855055	**SB-9 (0-1')**	EPA 5035A/5030B	490181	EPA 8015B	490375
7571855056	**SB-9 (2-3')**	EPA 5035A/5030B	490181	EPA 8015B	490375
7571855060	**SB-9 (14-15')**	EPA 5035A/5030B	490181	EPA 8015B	490375
7571855001	**SB-1 (0-6")**	EPA 5030 Low	81780	EPA 8260	81804
7571855002	**SB-1 (6"-1')**	EPA 5030 Low	81781	EPA 8260	81805
7571855003	**SB-1 (2'-3')**	EPA 5030 Low	81781	EPA 8260	81805
7571855007	**SB-1 (14'-15')**	EPA 5030 Low	81781	EPA 8260	81805

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7571855009	**SB-2 (0-1')**	EPA 5030 Low	81781	EPA 8260	81805
7571855010	**SB-2 (2'-3')**	EPA 5030 Low	81781	EPA 8260	81805
7571855014	**SB-2 (14'-15')**	EPA 5030 Low	81781	EPA 8260	81805
7571855015	**SB-3 (0-1')**	EPA 5030 Low	81781	EPA 8260	81805
7571855016	**SB-3 (2'-3')**	EPA 5030 Low	81781	EPA 8260	81805
7571855020	**SB-3 (14'-15')**	EPA 5030 Low	81781	EPA 8260	81805
7571855022	**SB-4 (6"-1')**	EPA 5030 Low	81781	EPA 8260	81805
7571855023	**SB-4 (2'-3')**	EPA 5030 Low	81781	EPA 8260	81805
7571855027	**SB-4 (14'-15')**	EPA 5030 Low	81781	EPA 8260	81805
7571855028	**SB-5 (0-1')**	EPA 5030 Low	81781	EPA 8260	81805
7571855029	**SB-5 (2'-3')**	EPA 5030 Low	81781	EPA 8260	81805
7571855033	**SB-5 (14'-15')**	EPA 5030 Low	81781	EPA 8260	81805
7571855034	**SB-6 (0-6")**	EPA 5030 Low	81781	EPA 8260	81805
7571855035	**SB-6 (6"-1')**	EPA 5030 Low	81781	EPA 8260	81805
7571855036	**SB-6 (2'-3')**	EPA 5030 Low	81781	EPA 8260	81805
7571855040	**SB-6 (14'-15')**	EPA 5030 Low	81781	EPA 8260	81893
7571855041	**SB-7 (0-1')**	EPA 5030 Low	81781	EPA 8260	81893
7571855042	**SB-7 (2'-3')**	EPA 5030 Low	81797	EPA 8260	81893
7571855043	**SB-7 (4'-5')**	EPA 5030 Low	81797	EPA 8260	81893
7571855047	**SB-7 (19'-20')**	EPA 5030 Low	81797	EPA 8260	81893
7571855049	**SB-8 (6"-1')**	EPA 5030 Low	81797	EPA 8260	81893
7571855050	**SB-8 (2'-3')**	EPA 5030 Low	81797	EPA 8260	81893
7571855054	**SB-8 (14'-15')**	EPA 5030 Low	81797	EPA 8260	81893
7571855055	**SB-9 (0-1')**	EPA 5030 Low	81797	EPA 8260	81893
7571855056	**SB-9 (2-3')**	EPA 5030 Low	81797	EPA 8260	81893
7571855060	**SB-9 (14-15')**	EPA 5030 Low	81797	EPA 8260	81893
7571855001	**SB-1 (0-6")**	ASTM D2974-07	81981		
7571855002	**SB-1 (6"-1')**	ASTM D2974-07	81981		
7571855003	**SB-1 (2'-3')**	ASTM D2974-07	81981		
7571855004	**SB-1 (4'-5')**	ASTM D2974-07	81981		
7571855005	**SB-1 (6'-7')**	ASTM D2974-07	81981		
7571855006	**SB-1 (9'-10')**	ASTM D2974-07	81981		
7571855007	**SB-1 (14'-15')**	ASTM D2974-07	81981		
7571855008	**SB-2 (0-2")**	ASTM D2974-07	81981		
7571855009	**SB-2 (0-1')**	ASTM D2974-07	81981		
7571855010	**SB-2 (2'-3')**	ASTM D2974-07	81981		
7571855011	**SB-2 (4'-5')**	ASTM D2974-07	81981		
7571855012	**SB-2 (6'-7')**	ASTM D2974-07	81981		
7571855013	**SB-2 (9'-10')**	ASTM D2974-07	81981		
7571855014	**SB-2 (14'-15')**	ASTM D2974-07	81981		
7571855015	**SB-3 (0-1')**	ASTM D2974-07	81981		
7571855016	**SB-3 (2'-3')**	ASTM D2974-07	81981		
7571855017	**SB-3 (4'-5')**	ASTM D2974-07	81981		
7571855018	**SB-3 (6'-7')**	ASTM D2974-07	81981		
7571855019	**SB-3 (9'-10')**	ASTM D2974-07	81981		
7571855020	**SB-3 (14'-15')**	ASTM D2974-07	81981		
7571855021	**SB-4 (0-6")**	ASTM D2974-07	81983		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7571855022	SB-4 (6"-1')	ASTM D2974-07	81983		
7571855023	SB-4 (2'-3')	ASTM D2974-07	81983		
7571855024	SB-4 (4-5')	ASTM D2974-07	81983		
7571855025	SB-4 (6'-7')	ASTM D2974-07	81983		
7571855026	SB-4 (9'-10')	ASTM D2974-07	81983		
7571855027	SB-4 (14'-15')	ASTM D2974-07	81983		
7571855028	SB-5 (0-1')	ASTM D2974-07	81983		
7571855029	SB-5 (2'-3')	ASTM D2974-07	81983		
7571855030	SB-5 (4'-5')	ASTM D2974-07	81983		
7571855031	SB-5 (6'-7')	ASTM D2974-07	81983		
7571855032	SB-5 (9'-10')	ASTM D2974-07	81983		
7571855033	SB-5 (14'-15')	ASTM D2974-07	81983		
7571855034	SB-6 (0-6")	ASTM D2974-07	81983		
7571855035	SB-6 (6"-1')	ASTM D2974-07	81983		
7571855036	SB-6 (2'-3')	ASTM D2974-07	81983		
7571855037	SB-6 (4'-5')	ASTM D2974-07	81983		
7571855038	SB-6 (6'-7')	ASTM D2974-07	81983		
7571855039	SB-6 (9'-10')	ASTM D2974-07	81983		
7571855040	SB-6 (14'-15')	ASTM D2974-07	81983		
7571855041	SB-7 (0-1')	ASTM D2974-07	81984		
7571855042	SB-7 (2'-3')	ASTM D2974-07	81984		
7571855043	SB-7 (4'-5')	ASTM D2974-07	81984		
7571855044	SB-7 (6'-7')	ASTM D2974-07	81984		
7571855045	SB-7 (9'-10')	ASTM D2974-07	81984		
7571855046	SB-7 (14'-15')	ASTM D2974-07	81984		
7571855047	SB-7 (19'-20')	ASTM D2974-07	81984		
7571855048	SB-8 (0-6")	ASTM D2974-07	81984		
7571855049	SB-8 (6"-1')	ASTM D2974-07	81984		
7571855050	SB-8 (2'-3')	ASTM D2974-07	81984		
7571855051	SB-8 (4'-5')	ASTM D2974-07	81984		
7571855052	SB-8 (6'-7')	ASTM D2974-07	81984		
7571855053	SB-8 (9'-10')	ASTM D2974-07	81984		
7571855054	SB-8 (14'-15')	ASTM D2974-07	81984		
7571855055	SB-9 (0-1')	ASTM D2974-07	81984		
7571855056	SB-9 (2-3')	ASTM D2974-07	81984		
7571855057	SB-9 (4'-5')	ASTM D2974-07	81984		
7571855058	SB-9 (6'-7')	ASTM D2974-07	81984		
7571855059	SB-9 (9'-10')	ASTM D2974-07	81984		
7571855060	SB-9 (14-15')	ASTM D2974-07	81984		
7571855001	SB-1 (0-6")	EPA 300.0	492200	EPA 300.0	492206
7571855001	SB-1 (0-6")	EPA 300.0	492230	EPA 300.0	492232
7571855002	SB-1 (6"-1')	EPA 300.0	492200	EPA 300.0	492206
7571855002	SB-1 (6"-1')	EPA 300.0	492230	EPA 300.0	492232
7571855003	SB-1 (2'-3')	EPA 300.0	492200	EPA 300.0	492206
7571855004	SB-1 (4'-5')	EPA 300.0	492200	EPA 300.0	492206
7571855005	SB-1 (6'-7')	EPA 300.0	492200	EPA 300.0	492206

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

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Pace Project No.: 7571855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7571855006	**SB-1 (9'-10')**	EPA 300.0	492200	EPA 300.0	492206
7571855007	**SB-1 (14'-15')**	EPA 300.0	492200	EPA 300.0	492206
7571855008	**SB-2 (0-2")**	EPA 300.0	492200	EPA 300.0	492206
7571855008	**SB-2 (0-2")**	EPA 300.0	492230	EPA 300.0	492232
7571855009	**SB-2 (0-1')**	EPA 300.0	492200	EPA 300.0	492206
7571855010	**SB-2 (2'-3')**	EPA 300.0	492200	EPA 300.0	492206
7571855011	**SB-2 (4'-5')**	EPA 300.0	492200	EPA 300.0	492206
7571855012	**SB-2 (6'-7')**	EPA 300.0	492200	EPA 300.0	492206
7571855013	**SB-2 (9'-10')**	EPA 300.0	492200	EPA 300.0	492206
7571855014	**SB-2 (14'-15')**	EPA 300.0	492200	EPA 300.0	492206
7571855015	**SB-3 (0-1')**	EPA 300.0	492200	EPA 300.0	492206
7571855015	**SB-3 (0-1')**	EPA 300.0	492230	EPA 300.0	492232
7571855016	**SB-3 (2'-3')**	EPA 300.0	492200	EPA 300.0	492206
7571855017	**SB-3 (4'-5')**	EPA 300.0	492200	EPA 300.0	492206
7571855018	**SB-3 (6'-7')**	EPA 300.0	492200	EPA 300.0	492206
7571855019	**SB-3 (9'-10')**	EPA 300.0	492200	EPA 300.0	492206
7571855020	**SB-3 (14'-15')**	EPA 300.0	492200	EPA 300.0	492206
7571855021	**SB-4 (0-6")**	EPA 300.0	492201	EPA 300.0	492208
7571855021	**SB-4 (0-6")**	EPA 300.0	492230	EPA 300.0	492232
7571855022	**SB-4 (6"-1')**	EPA 300.0	492201	EPA 300.0	492208
7571855023	**SB-4 (2'-3')**	EPA 300.0	492201	EPA 300.0	492208
7571855024	**SB-4 (4-5')**	EPA 300.0	492201	EPA 300.0	492208
7571855025	**SB-4 (6'-7')**	EPA 300.0	492201	EPA 300.0	492208
7571855026	**SB-4 (9'-10')**	EPA 300.0	492201	EPA 300.0	492208
7571855027	**SB-4 (14'-15')**	EPA 300.0	492201	EPA 300.0	492208
7571855028	**SB-5 (0-1')**	EPA 300.0	492201	EPA 300.0	492208
7571855028	**SB-5 (0-1')**	EPA 300.0	492230	EPA 300.0	492232
7571855029	**SB-5 (2'-3')**	EPA 300.0	492201	EPA 300.0	492208
7571855029	**SB-5 (2'-3')**	EPA 300.0	492230	EPA 300.0	492232
7571855030	**SB-5 (4'-5')**	EPA 300.0	492201	EPA 300.0	492208
7571855031	**SB-5 (6'-7')**	EPA 300.0	492201	EPA 300.0	492208
7571855032	**SB-5 (9'-10')**	EPA 300.0	492201	EPA 300.0	492208
7571855033	**SB-5 (14'-15')**	EPA 300.0	492201	EPA 300.0	492208
7571855034	**SB-6 (0-6")**	EPA 300.0	492201	EPA 300.0	492208
7571855035	**SB-6 (6"-1')**	EPA 300.0	492201	EPA 300.0	492208
7571855036	**SB-6 (2'-3')**	EPA 300.0	492201	EPA 300.0	492208
7571855037	**SB-6 (4'-5')**	EPA 300.0	492201	EPA 300.0	492208
7571855038	**SB-6 (6'-7')**	EPA 300.0	492201	EPA 300.0	492208
7571855039	**SB-6 (9'-10')**	EPA 300.0	492201	EPA 300.0	492208
7571855040	**SB-6 (14'-15')**	EPA 300.0	492201	EPA 300.0	492208
7571855041	**SB-7 (0-1')**	EPA 300.0	492202	EPA 300.0	492209
7571855042	**SB-7 (2'-3')**	EPA 300.0	492202	EPA 300.0	492209
7571855043	**SB-7 (4'-5')**	EPA 300.0	492202	EPA 300.0	492209

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00923/Satellite 3 COP
Pace Project No.: 7571855

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7571855044	**SB-7 (6'-7')**	EPA 300.0	492202	EPA 300.0	492209
7571855045	**SB-7 (9'-10')**	EPA 300.0	492202	EPA 300.0	492209
7571855046	**SB-7 (14'-15')**	EPA 300.0	492202	EPA 300.0	492209
7571855047	**SB-7 (19'-20')**	EPA 300.0	492202	EPA 300.0	492209
7571855048	**SB-8 (0-6")**	EPA 300.0	492202	EPA 300.0	492209
7571855048	**SB-8 (0-6")**	EPA 300.0	492230	EPA 300.0	492232
7571855049	**SB-8 (6"-1')**	EPA 300.0	492202	EPA 300.0	492209
7571855049	**SB-8 (6"-1')**	EPA 300.0	492230	EPA 300.0	492232
7571855050	**SB-8 (2'-3')**	EPA 300.0	492202	EPA 300.0	492209
7571855051	**SB-8 (4'-5')**	EPA 300.0	492202	EPA 300.0	492209
7571855052	**SB-8 (6'-7')**	EPA 300.0	492202	EPA 300.0	492209
7571855053	**SB-8 (9'-10')**	EPA 300.0	492202	EPA 300.0	492209
7571855054	**SB-8 (14'-15')**	EPA 300.0	492202	EPA 300.0	492209
7571855055	**SB-9 (0-1')**	EPA 300.0	492202	EPA 300.0	492209
7571855056	**SB-9 (2-3')**	EPA 300.0	492202	EPA 300.0	492209
7571855057	**SB-9 (4'-5')**	EPA 300.0	492202	EPA 300.0	492209
7571855058	**SB-9 (6'-7')**	EPA 300.0	492202	EPA 300.0	492209
7571855059	**SB-9 (9'-10')**	EPA 300.0	492202	EPA 300.0	492209
7571855060	**SB-9 (14-15')**	EPA 300.0	492202	EPA 300.0	492209

Pace Analytical®	Document Name: Sample Condition Upon Receipt	Document Revised: 7/25/16 Page 1 of 1
	Document No.: F-DAL-C-001-rev.06	Issuing Authority: Pace Dallas Quality Office

Sample Condition Upon Receipt

☒Dallas ☐Ft Worth ☐San Angelo

WO# : 7571855

7571855

Client Name: Tetra Tech Project Work order:

Courier: FedEX ☑ UPS ☐ USPS ☐ Client ☐ Courier ☐ LSO ☐ PACE ☐ Other:

Tracking#: 5420 8979 3989

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

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

Thermometer Used: IR-CS4 Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp °C: 3.6 (Recorded) +0.2 (Correction Factor) 3.8 (Actual) Temp should be above freezing to 6°C

Chain of Custody Present	Yes ☑ No ☐ NA ☐	1
Chain of Custody filled out	Yes ☑ No ☐ NA ☐	2
Chain of Custody relinquished	Yes ☑ No ☐ NA ☐	3
Sampler name & signature on COC	Yes ☑ No ☐ NA ☐	4
Sample received within HT	Yes ☑ No ☐ NA ☐	5
Short HT analyses (<72 hrs)	Yes ☐ No ☑ NA ☐	6
Rush TAT requested	Yes ☐ No ☑ NA ☐	7
Sufficient Volume received	Yes ☑ No ☐ NA ☐	8
Correct Container used Pace Container used	Yes ☑ No ☐ NA ☐ Yes ☑ No ☐ NA ☐	9
Container Intact	Yes ☑ No ☐ NA ☐	10
Unpreserved 5035A soil frozen within 48 hrs	Yes ☐ No ☐ NA ☑	11
Filtered volume received for Dissolved tests	Yes ☐ No ☐ NA ☑	12
Sample labels match COC Include date/time/ID/analyses Matrix:	Yes ☑ No ☐ NA ☐ Solid	13
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☑	14a. Lot# of pH strip: Original pH: <☐ or >☐ 2☐ 9☐ 12☐ or received Neutral ☐ Lot# of Iodine strip: Lot# of Lead Acetate strip:
Do containers require preservation at the lab	Yes ☐ No ☐ NA ☑	14b. Preservation: Lot# and adjusted pH: pH<2 ☐ pH>9 ☐ pH>12 ☐
All containers needing preservation are found to be in Compliance with EPA recommendation Exception: VOA, coliform, O&G	Yes ☐ No ☐ NA ☑ Yes ☐ No ☑	14c.
Are soil samples (volatiles) received in Bulk ☐ Terracore ☐ EnCore ☐	NA ☑	15.
Trip Blank present Trip Blank Custody Seals Intact Pace Trip Blank Lot# (if purchased):	Yes ☐ No ☐ NA ☑ Yes ☐ No ☐ NA ☑	16.
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☑	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☑	18. List State

Client Notification/Resolution/Comments:

Person Contacted: Date:

Comments/Resolution:

Person Examining Contents: mm Date: 8-11-17 Project Manager Review: 8-11-17 mm

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

7571855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope, greg.pope@tetratech.com

Project Name: Satellite 3 CDP

Project Location (county, state): Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Jeff Enid for Clint McNeill

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50mg/kg run deeper

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	Sample FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
001	SB-1 (0-6")	8-2-17			✓			✓	1	N	✓		✓											✓				
002	SB-1 (6"-1')	8-2-17			✓			✓	1	N	✓		✓											✓				
003	SB-1 (2'-3')	8-2-17			✓			✓	1	N	✓		✓											✓				
004	SB-1 (4'-5')	8-2-17			✓			✓	1	N														✓				
005	SB-1 (6'-7')	8-2-17			✓			✓	1	N														✓				
006	SB-1 (9'-10')	8-2-17			✓			✓	1	N														✓				
007	SB-1 (14'-15')	8-2-17			✓			✓	1	N	✓		✓											✓				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Jeff D. Enid	8-9-2017	1500	Daniel Palm Pace	8/10/17	0845
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CS4 3.8°

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

- ☐ RUSH: Same Day 24 hr 48 hr 72 hr
- ☐ Rush Charges Authorized
- ☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

NS71855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope, greg.pope@tetratech.com

Project Name: Satellite 3 COP

Project Location (county, state): Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bill Smith for Clint Moseley

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50mg/kg run deeper

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B / BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
008	SB-2 (0-2")	8-1-17			✓			✓	1	N														✓							
009	SB-2 (0-1')	8-1-17			✓			✓	1	N	✓		✓											✓							
010	SB-2 (2'-3')	8-1-17			✓			✓	1	N	✓		✓											✓							
011	SB-2 (4'-5')	8-1-17			✓			✓	1	N	✓		✓											✓							
012	SB-2 (6'-7')	8-1-17			✓			✓	1	N														✓							
013	SB-2 (9'-10')	8-1-17			✓			✓	1	N														✓							
014	SB-2 (14'-15')	8-1-17			✓			✓	1	N	✓		✓											✓							

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bill D. Smith	8-9-2017	1500	Daniel Palma Pace	8/10/17	0845 CSG 3.8
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

n571855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope greg-pope@tetratech.com

Project Name: Satellite 3 CoP

Project Location: (county, state) Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bell Smith for Clint Merritt

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50 mg/kg run deeper sample

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	DATE	TIME	WATER	SOIL	HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
015	SB-3 (0-1')	8-2-17			✓			✓	1	N	✓		✓												✓				
016	SB-3 (2'-3')	8-2-17			✓			✓	1	N	✓		✓												✓				
017	SB-3 (4'-5')	8-2-17			✓			✓	1	N															✓				
018	SB-3 (6'-7')	8-2-17			✓			✓	1	N															✓				
019	SB-3 (9'-10')	8-2-17			✓			✓	1	N															✓				
020	SB-3 (14'-15')	8-2-17			✓			✓	1	N	✓		✓												✓				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bell D. Smith	8-7-2017	1500	Daniel Palma Pace	8/10/17	0845

CST 3.8

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

☐ **RUSH:** Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: ____________

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401 Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

D571855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope greg-pope@tetratech.com

Project Name: Satellite 3 CoP

Project Location: (county, state) Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bill Smid for Clint Merritt

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50 mg/kg run deeper sample

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING: DATE	SAMPLING: TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
021	SB-4 (0-6")	8-2-17			✓			✓	1	N															✓				
022	SB-4 (6"-1')	8-2-17			✓			✓	1	N	✓		✓												✓				
023	SB-4 (2'-3')	8-2-17			✓			✓	1	N	✓		✓												✓				
024	SB-4 (4'-5')	8-2-17			✓			✓	1	N															✓				
025	SB-4 (6'-7')	8-2-17			✓			✓	1	N															✓				
026	SB-4 (9'-10')	8-2-17			✓			✓	1	N															✓				
027	SB-4 (14'-15')	8-2-17			✓			✓	1	N	✓		✓												✓				

YEAR:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bill D. Smid	8-9-2017	1500	Daniel Palm Pace	8/10/17	0845

CSY 3.8°

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

☐ **RUSH:** Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

NS71855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope greg.pope@tetratech.com

Project Name: Satellite 3 CDP

Project Location: (county, state) Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bill Smith for Clint Meyer

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50mg/kg run deeper

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	Sample FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance						Hold
028	SB-5 (0-1')	8-2-17			✓			✓	1	N	✓		✓												✓									
029	SB-5 (2'-3')	8-2-17			✓			✓	1	N	✓		✓												✓									
030	SB-5 (4'-5')	8-2-17			✓			✓	1	N															✓									
031	SB-5 (6'-7')	8-2-17			✓			✓	1	N															✓									
032	SB-5 (9'-10')	8-2-17			✓			✓	1	N															✓									
033	SB-5 (14'-15')	8-2-17			✓			✓	1	N	✓		✓												✓									

Relinquished by: Bill Smith Date: 8-9-2017 Time: 1500

Received by: Daniel Palma Pace Date: 8/10/17 Time: 0845 CS4 3.8°

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: _____

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

n571855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope, greg.pope@tetratech.com

Project Name: Satellite 3 CDP

Project Location: (county, state) Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bill Smith for Clint Moseley

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50mg/kg run deeper

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	TIME	MATRIX WATER	SOIL	PRESERVATIVE METHOD HCL	HNO_3	ICE	# CONTAINERS	Sample FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
034	SB-6 (0-6")	8-3-17			✓			✓	1	N	✓		✓												✓								
035	SB-6 (6"-1')	8-3-17			✓			✓	1	N	✓		✓												✓								
036	SB-6 (2'-3')	8-3-17			✓			✓	1	N	✓		✓												✓								
037	SB-6 (4'-5')	8-3-17			✓			✓	1	N															✓								
038	SB-6 (6'-7')	8-3-17			✓			✓	1	N															✓								
039	SB-6 (9'-10')	8-3-17			✓			✓	1	N															✓								
040	SB-6 (14'-15')	8-3-17			✓			✓	1	N	✓		✓												✓								

Relinquished by: Bill D. Smith Date: 8-9-2017 Time: 1500

Received by: Daniel Palma Pace Date: 8/10/17 Time: 0845 CSY 3.8

Relinquished by: Date: Time:

Received by: Date: Time:

Relinquished by: Date: Time:

Received by: Date: Time:

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

RUSH: Same Day 24 hr 48 hr 72 hr

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

NS71855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope greg.pope@tetratech.com

Project Name: Satellite 3 CDP

Project Location: (county, state) Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bill Smith for Clint Meyer

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50mg/kg run deeper

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
041	SB-7 (0-1')	8-3-17			✓			✓	1	N	✓		✓												✓							
042	SB-7 (2'-3')	8-3-17			✓			✓	1	N	✓		✓												✓							
043	SB-7 (4'-5')	8-3-17			✓			✓	1	N	✓		✓												✓							
044	SB-7 (6'-7')	8-3-17			✓			✓	1	N															✓							
045	SB-7 (9'-10')	8-3-17			✓			✓	1	N															✓							
046	SB-7 (14'-15')	8-3-17			✓			✓	1	N															✓							
047	SB-7 (19'-20')	8-3-17			✓			✓	1	N	✓		✓												✓							

ANALYSIS REQUEST (Circle or Specify Method No.)

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bill D. Smith	8-9-2017	1500	Daniel Palma Pace	8/10/17	0845
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CS4 3.8°

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

7571855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope greg.pope@tetratech.com

Project Name: Satellite 3 CAP

Project Location: (county, state) Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bill Smith for Clint Meyer

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50mg/kg run deeper sample

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
048	SB-8 (0-6")	8-3-17			✓			✓	1	N														✓				
049	SB-8 (6"-1')	8-3-17			✓			✓	1	N	✓		✓											✓				
050	SB-8 (2'-3')	8-3-17			✓			✓	1	N	✓		✓											✓				
051	SB-8 (4'-5')	8-3-17			✓			✓	1	N														✓				
052	SB-8 (6'-7')	8-3-17			✓			✓	1	N														✓				
053	SB-8 (9'-10')	8-3-17			✓			✓	1	N														✓				
054	SB-8 (14'-15')	8-3-17			✓			✓	1	N	✓		✓											✓				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bill D. Smith	8-9-2017	1500	Daniel Palma Pace	8/10/17	0845
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

CSY 3.8

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

- RUSH: Same Day 24 hr 48 hr 72 hr
- Rush Charges Authorized
- Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #:

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Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

4000 N. Big Spring Street, Ste 401 Midland,Texas 79705
Tel (432) 682-4559
Fax (432) 682-3946

n571855

Client Name: Tetra tech Inc.

Site Manager: Greg Pope greg-pope@tetratech.com

Project Name: Satellite 3 CoP

Project Location: (county, state) Buckeye N.M.

Project #: 212C-MD-00923

Invoice to: Tetra tech Inc.

Receiving Laboratory: Pace Analytical

Sampler Signature: Bill Smith for Clint Merritt

Comments: If TPH exceeds 1000 mg/kg run deeper sample. If Benzene exceed 10 mg/kg or total BTEX exceeds 50 mg/kg run deeper sample

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	DATE	TIME	WATER	SOIL	HCL	HNO_3	ICE	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B (circled)	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride 300	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance	Hold
055	SB-9 (0-1')	8-3-17			✓			✓	1	N	✓		✓												✓				
056	SB-9 (2'-3')	8-3-17			✓			✓	1	N	✓		✓												✓				
057	SB-9 (4'-5')	8-3-17			✓			✓	1	N															✓				
058	SB-9 (6'-7')	8-3-17			✓			✓	1	N															✓				
059	SB-9 (9'-10')	8-3-17			✓			✓	1	N															✓				
060	SB-9 (14'-15')	8-3-17			✓			✓	1	N	✓		✓												✓				

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Bill D Smith	8-9-2017	1500	Daniel Palma Pace	8/10/17	0845 CSY 3.8°
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

REMARKS: Standard TAT

☐ **RUSH:** Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED FEDEX UPS Tracking #: ______

ORIGINAL COPY

Pace Analytical
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Sample Condition Upon Receipt

WO# : 60250816

60250816

Client Name: PAST 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: CF 0.0 T-266 / CF +0.3 T-239 **Type of Ice:** (Wet) Blue None

Cooler Temperature (°C): **As-read** 1.8 0.8 **Corr. Factor** CF 0.0 CF +0.3 **Corrected** 1.8 0.8

Date and initials of person examining contents: JB 8/12/17

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	Approaching hold times for GRO
Short Hold Time analyses (<72hr):	☐Yes ☒No ☐N/A	
Rush Turn Around Time requested:	☐Yes ☒No ☐N/A	
Sufficient volume:	☒Yes ☐No ☐N/A	
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: SL	☐Yes ☒No ☐N/A	
Containers requiring pH preservation in compliance? (HNO_3, H_2SO_4, HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	☐Yes ☐No ☒N/A	
Cyanide water sample checks: ☒N/A Lead acetate strip turns dark? (Record only) Potassium iodide test strip turns blue/purple? (Preserve)	☐Yes ☐No ☐Yes ☐No	
Trip Blank present:	☐Yes ☐No ☒N/A	
Headspace in VOA vials (>6mm):	☐Yes ☐No ☒N/A	
Samples from USDA Regulated Area: State: TX	☒Yes ☐No ☐N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	☐Yes ☐No ☒N/A	

USDA Regulated Soil
Dispose of Sample and all Aliquots in Designated Containers

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

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: 8/14/17

Chain of Custody

Pace Analytical®
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Workorder: 7571855 **Workorder Name:** 212C-MD-00923/Satellite 3 COP **Owner Received Date:** 8/10/2017 **Results Requested By:** 8/21/2017

Report To	Subcontract To
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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Chloride 300	Requested Analysis: 8015 GRO	LAB USE ONLY 60250816 6020 P-8/12/17
1	SB-1 (0-6")	PS	8/2/2017 00:01	7571855001	Solid	1	X	X	JKFH 001
2	SB-1 (6"-1')	PS	8/2/2017 00:01	7571855002	Solid	1	X	X	002
3	SB-1 (2'-3')	PS	8/2/2017 00:01	7571855003	Solid	1	X	X	003
4	SB-1 (4'-5')	PS	8/2/2017 00:01	7571855004	Solid	1	X		004
5	SB-1 (6'-7')	PS	8/2/2017 00:01	7571855005	Solid	1	X		005
6	SB-1 (9'-10')	PS	8/2/2017 00:01	7571855006	Solid	1	X		006
7	SB-1 (14'-15')	PS	8/2/2017 00:01	7571855007	Solid	1	X	X	007
8	SB-2 (0-2")	PS	8/1/2017 00:01	7571855008	Solid	1	X		008
9	SB-2 (0-1')	PS	8/1/2017 00:01	7571855009	Solid	1	X	X	009
10	SB-2 (2'-3')	PS	8/1/2017 00:01	7571855010	Solid	1	X	X	010
11	SB-2 (4'-5')	PS	8/1/2017 00:01	7571855011	Solid	1	X		011
12	SB-2 (6'-7')	PS	8/1/2017 00:01	7571855012	Solid	1	X		012
13	SB-2 (9'-10')	PS	8/1/2017 00:01	7571855013	Solid	1	X		013
14	SB-2 (14'-15')	PS	8/1/2017 00:01	7571855014	Solid	1	X	X	014
15	SB-3 (0-1')	PS	8/2/2017 00:01	7571855015	Solid	1	X	X	015
16	SB-3 (2'-3')	PS	8/2/2017 00:01	7571855016	Solid	1	X	X	016
17	SB-3 (4'-5')	PS	8/1/2017 00:01	7571855017	Solid	1	X		017
18	SB-3 (6'-7')	PS	8/1/2017 00:01	7571855018	Solid	1	X		018
19	SB-3 (9'-10')	PS	8/1/2017 00:01	7571855019	Solid	1	X		19

Chain of Custody

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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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Chloride 300	Requested Analysis: 8015 GRO	LAB USE ONLY: 60250816
20	SB-3 (14'-15')	PS	8/2/2017 00:01	7571855020	Solid	1	X	X	JLFH 020
21	SB-4 (0-6")	PS	8/2/2017 00:01	7571855021	Solid	1	X		~~22~~ 21
22	SB-4 (6"-1')	PS	8/2/2017 00:01	7571855022	Solid	1	X	X	~~23~~ 22
23	SB-4 (2'-3')	PS	8/2/2017 00:01	7571855023	Solid	1	X	X	~~24~~ 23
24	SB-4 (4-5")	PS	8/2/2017 00:01	7571855024	Solid	1	X		~~25~~ 24
25	SB-4 (6'-7')	PS	8/2/2017 00:01	7571855025	Solid	1	X		~~26~~ 25
26	SB-4 (9'-10')	PS	8/2/2017 00:01	7571855026	Solid	1	X		~~27~~ 26
27	SB-4 (14'-15')	PS	8/2/2017 00:01	7571855027	Solid	1	X	X	~~28~~ 27
28	SB-5 (0-1')	PS	8/2/2017 00:01	7571855028	Solid	1	X	X	~~29~~ 28
29	SB-5 (2'-3')	PS	8/2/2017 00:01	7571855029	Solid	1	X	X	~~30~~ 29
30	SB-5 (4'-5')	PS	8/2/2017 00:01	7571855030	Solid	1	X		~~31~~ 30
31	SB-5 (6'-7')	PS	8/2/2017 00:01	7571855031	Solid	1	X		~~32~~ 31
32	SB-5 (9'-10')	PS	8/2/2017 00:01	7571855032	Solid	1	X		~~33~~ 32
33	SB-5 (14'-15')	PS	8/2/2017 00:01	7571855033	Solid	1	X	X	~~34~~ 33
34	SB-6 (0-6")	PS	8/3/2017 00:01	7571855034	Solid	1	X	X	~~35~~ 34
35	SB-6 (6"-1')	PS	8/3/2017 00:01	7571855035	Solid	1	X	X	~~36~~ 35
36	SB-6 (2'-3')	PS	8/3/2017 00:01	7571855036	Solid	1	X	X	~~37~~ 36
37	SB-6 (4'-5')	PS	8/3/2017 00:01	7571855037	Solid	1	X		~~38~~ 37
38	SB-6 (6'-7')	PS	8/3/2017 00:01	7571855038	Solid	1	X		~~39~~ 38
39	SB-6 (9'-10')	PS	8/3/2017 00:01	7571855039	Solid	1	X		~~4~~ 39

Chain of Custody

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Workorder: 7571855 **Workorder Name:** 212C-MD-00923/Satellite 3 COP **Owner Received Date:** 8/10/2017 **Results Requested By:** 8/21/2017

Report To	Subcontract To
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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Chloride 300	8015 GRO	LAB USE ONLY: 60250816
40	SB-6 (14'-15')	PS	8/3/2017 00:01	7571855040	Solid	1	X	X	JGFU 040
41	SB-7 (0-1')	PS	8/3/2017 00:01	7571855041	Solid	1	X	X	041
42	SB-7 (2'-3')	PS	8/3/2017 00:01	7571855042	Solid	1	X	X	042
43	SB-7 (4'-5')	PS	8/3/2017 00:01	7571855043	Solid	1	X	X	043
44	SB-7 (6'-7')	PS	8/3/2017 00:01	7571855044	Solid	1	X		044
45	SB-7 (9'-10')	PS	8/3/2017 00:01	7571855045	Solid	1	X		045
46	SB-7 (14'-15')	PS	8/3/2017 00:01	7571855046	Solid	1	X		046
47	SB-7 (19'-20')	PS	8/3/2017 00:01	7571855047	Solid	1	X	X	047
48	SB-8 (0-6")	PS	8/3/2017 00:01	7571855048	Solid	1	X		048
49	SB-8 (6"-1')	PS	8/3/2017 00:01	7571855049	Solid	1	X	X	049
50	SB-8 (2'-3')	PS	8/3/2017 00:01	7571855050	Solid	1	X	X	050
51	SB-8 (4'-5')	PS	8/3/2017 00:01	7571855051	Solid	1	X		051
52	SB-8 (6'-7')	PS	8/3/2017 00:01	7571855052	Solid	1	X		052
53	SB-8 (9'-10')	PS	8/3/2017 00:01	7571855053	Solid	1	X		053
54	SB-8 (14'-15')	PS	8/3/2017 00:01	7571855054	Solid	1	X	X	054
55	SB-9 (0-1')	PS	8/3/2017 00:01	7571855055	Solid	1	X	X	055
56	SB-9 (2-3')	PS	8/3/2017 00:01	7571855056	Solid	1	X	X	056
57	SB-9 (4'-5')	PS	8/3/2017 00:01	7571855057	Solid	1	X		057
58	SB-9 (6'-7')	PS	8/3/2017 00:01	7571855058	Solid	1	X		058
59	SB-9 (9'-10')	PS	8/3/2017 00:01	7571855059	Solid	1	X		059

Chain of Custody

Pace Analytical®
www.pacelabs.com

Workorder: 7571855 **Workorder Name:** 212C-MD-00923/Satellite 3 COP **Owner Received Date:** 8/10/2017 **Results Requested By:** 8/21/2017

Report To	Subcontract To
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

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers: Unpreserved	Requested Analysis: Chloride 300	Requested Analysis: 8015 Gro	Requested Analysis: 8015 Gro	LAB USE ONLY: 60250816
60	SB-9 (14-15')	PS	8/3/2017 00:01	7571855060	Solid	1	X	X		J6Fh 06
61										
62										
63										
64										

Transfers	Released By	Date/Time	Received By	Date/Time
1	Melissa McCullough	8-11-17 1700		8/12/17 0830
2				
3				

Comments

Cooler Temperature on Receipt 1.6 0.5 °C | Custody Seal (Y) or N | Received on Ice (Y) or N | Samples Intact (Y) 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.

Appendix D

Lea County, New Mexico

KU—Kimbrough-Lea complex, dry, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2tw46
Elevation: 2,500 to 4,800 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 57 to 63 degrees F
Frost-free period: 180 to 220 days
Farmland classification: Not prime farmland

Map Unit Composition

Kimbrough and similar soils: 45 percent
Lea and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kimbrough

Setting

Landform: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Parent material: Loamy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 3 inches: gravelly loam
Bw - 3 to 10 inches: loam
Bkkm1 - 10 to 16 inches: cemented material
Bkkm2 - 16 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 4 to 18 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.01 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 95 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 1.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: Very Shallow 12-17" PZ (R077DY049TX)
Hydric soil rating: No

Description of Lea

Setting

Landform: Plains
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Calcareous, loamy eolian deposits from the blackwater draw formation of pleistocene age over indurated caliche of pliocene age

Typical profile

A - 0 to 10 inches: loam
Bk - 10 to 18 inches: loam
Bkk - 18 to 26 inches: gravelly fine sandy loam
Bkkm - 26 to 80 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 22 to 30 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 90 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 3.0
Available water storage in profile: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: Sandy Loam 12-17" PZ (R077DY047TX)
Hydric soil rating: No

Minor Components

Kenhill

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Clay Loam 12-17" PZ (R077DY038TX)
Hydric soil rating: No

Douro

Percent of map unit: 12 percent
Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: Sandy Loam 12-17" PZ (R077DY047TX)
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Spraberry

Percent of map unit: 6 percent
Landform: Plains, playa rims
Down-slope shape: Linear, convex
Across-slope shape: Linear
Ecological site: Very Shallow 12-17" PZ (R077DY049TX)
Other vegetative classification: Unnamed (G077DH000TX)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lea County, New Mexico
Survey Area Data: Version 14, Sep 10, 2017

SHALLOW (SH) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX
Grasses:			
Sideoats grama	Vaughn, El Reno	4.0	F
Blue grama	Lovington, Hachita	3.0	D
Little bluestem	Pastura, Cimmaron	1.5	F
Green sprangletop	VNS, Southern	1.0	D
Plains bristlegrass	VNS, Southern	1.0	D
Forbs:			
Firewheel (*Gaillardia*)	VNS, Southern	1.0	D
Shrubs:			
Fourwing saltbush	Marana, Santa Rita	1.0	D
Common winterfat	VNS, Southern	0.5	F
	Total PLS/acre	13.0	

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box
VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern – Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.