

SITE INFORMATION

Report Type: Work Plan 1RP-1681

General Site Information:

Site:	Phimex #6					
Company:	ConocoPhillips Company					
Section, Township and Range	Unit M	Sec. 27	T 17S	R 33E		
Lease Number:	API No. 30-025-40705					
County:	Lea County					
GPS:	32.800167° N			103.657383° W		
Surface Owner:	State					
Mineral Owner:						
Directions:	From Hobbs New Mexico (west loop) go 11.5 mile on Carlsbad Highway (62) and turn right to Highway 529 and go 19 miles , turn right north onto Doglake Road, go 0.7 miles to intersection of Doglake and Mescalero Road, Turn right (east) and go 1.9 miles, turn right (south) into lease road, go 0.3 miles, turn right (west) go 0.2 miles to location					

Release Data:

Date Released:	12/7/2007
Type Release:	Produced water
Source of Contamination:	Injection Tank
Fluid Released:	22 bbls water
Fluids Recovered:	15 bbls water

APPROVED

By Olivia Yu at 7:22 am, Jul 07, 2017

Official Communication:

Name:	Neal Goates		Ike Tavarez
Company:	ConocoPhillips		Tetra Tech
Address:	16290 Katy Fwy		4000 N. Big Spring
			Ste 401
City:	Houston, Texas		Midland, Texas
Phone number:	(832) 486-2425		(432) 687-8110
Fax:	(832) 465-4123		
Email:	n.goates@conocophillips.com		Ike.Tavarez@tetrattech.com

Ranking Criteria

Depth to Groundwater:	Ranking Score	Site Data
<50 ft	20	
50-99 ft	10	
>100 ft.	0	greater 100'
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:		0

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000

NMOCD approves of the delineation and proposed remedial activities for 1RP-1681 with one condition: Sidewall confirmation samples are required.



TETRA TECH

July 6, 2017

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, Philmex #6, Unit M, Section 27, Township 17 South, Range 33 East, Lea County, New Mexico. 1RP-1681

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (Conoco) to assess a release that occurred at the Philmex #6, Unit M, Section 27, Township 17 South, Range 33 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.800167°, W 103.657383°. The site location is shown on Figures 1 and 2.

ConocoPhillips has recently sold some of the lease properties, including the Philmex #6 location, which has been purchased by Penroc Oil Corporation. ConocoPhillips found an open C-141, dated December 2007, for the site that has not been addressed. Based on the recent purchase, ConocoPhillips would like to properly close out the C-141 for the site.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on December 7, 2007, and released approximately twenty-two (22) barrels of crude oil due to the drive belts on the injections pumps failing, causing the tank to over flow. Approximately fifteen (15) barrels of crude oil was recovered. However, upon further review, it has been determined that the release was probably a produced water release, with some trace of crude oil in the water. The release occurred on the pad and measured approximately 70' x 70' and 30' x 40'. The initial C-141 Form is included in Appendix A.

Groundwater

No water wells were listed within Section 27 on the New Mexico Office of the State Engineer's database. The nearest well is located in Section 28 with a reported depth to water of approximately 133' below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in this area is greater than 100' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

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

Tel 432.682.4559 Fax 432.682.3946 www.tetrattech.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 5,000 mg/kg.

Soil Assessment and Analytical Results

On May 11, 2017, Tetra Tech personnel were onsite to evaluate and sample the release area. A total of five (5) boreholes were installed in the spill area to assess and define the extents. Soil samples were collected and field screened with a PID and for chlorides. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The borehole locations are shown on Figure 3.

Referring to Table 1, the samples selected for benzene, total BTEX and TPH concentrations were below the laboratory reporting limits or below the RRAL's. However, elevated chloride concentrations were detected in the subsurface soils. The highest chloride impact was detected in the areas of boreholes (BH-1, BH-2 and BH-4) with concentrations of 3,480 mg/kg at 15.0', 3,500 mg/kg 2.0' and 2,560 mg/kg at 7.0' below surface, respectively. The chlorides declined with depth and showed bottom hole samples of 88.6 mg/kg at BH-1 (35.0'), 67.0 mg/kg at BH-2 (14.0') and 87.4 mg/kg at BH-4 (22.0').

The remaining boreholes (BH-3 and BH-5) did not show a significant chloride impact to the soils. Borehole (BH-3) detected a chloride high of 767 mg/kg which declined with depth to 151 mg/kg at 27.0' below surface. A chloride spike was encountered in the area of borehole (BH-5) of 2,100 mg/kg at 8.0' below surface. However, the samples above and below showed field chlorides of 440 ppm at 3.0' and 400 mg/kg at 9.0' below surface. The bottom hole sample at 19.0' detected a chloride of 310 mg/kg.

Work Plan

Based on the results, ConocoPhillips proposes to remove the impacted material as highlighted (green) in Table 1 and shown on Figure 4. The chloride impacted soils were detected in the areas of boreholes (BH-1, BH-2 and BH-3), whereas the areas of boreholes (BH-4 and BH-5) did not show a significant impact the subsurface soils. However, due to the age of the release, ConocoPhillips proposes to excavate the areas of boreholes (BH-1, BH-2, BH-3, BH-4 and BH-5) to a depth of 3.0'-4.0' below surface and



TETRA TECH

install a 40 mil liner in the excavation bottom to cap the remaining chlorides in the subsurface soils. The excavation will then be backfilled with clean material to surface grade. All of the excavated material will be transported offsite for proper disposal.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As such, ConocoPhillips will excavate the impacted soils to the maximum extent practicable.

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.

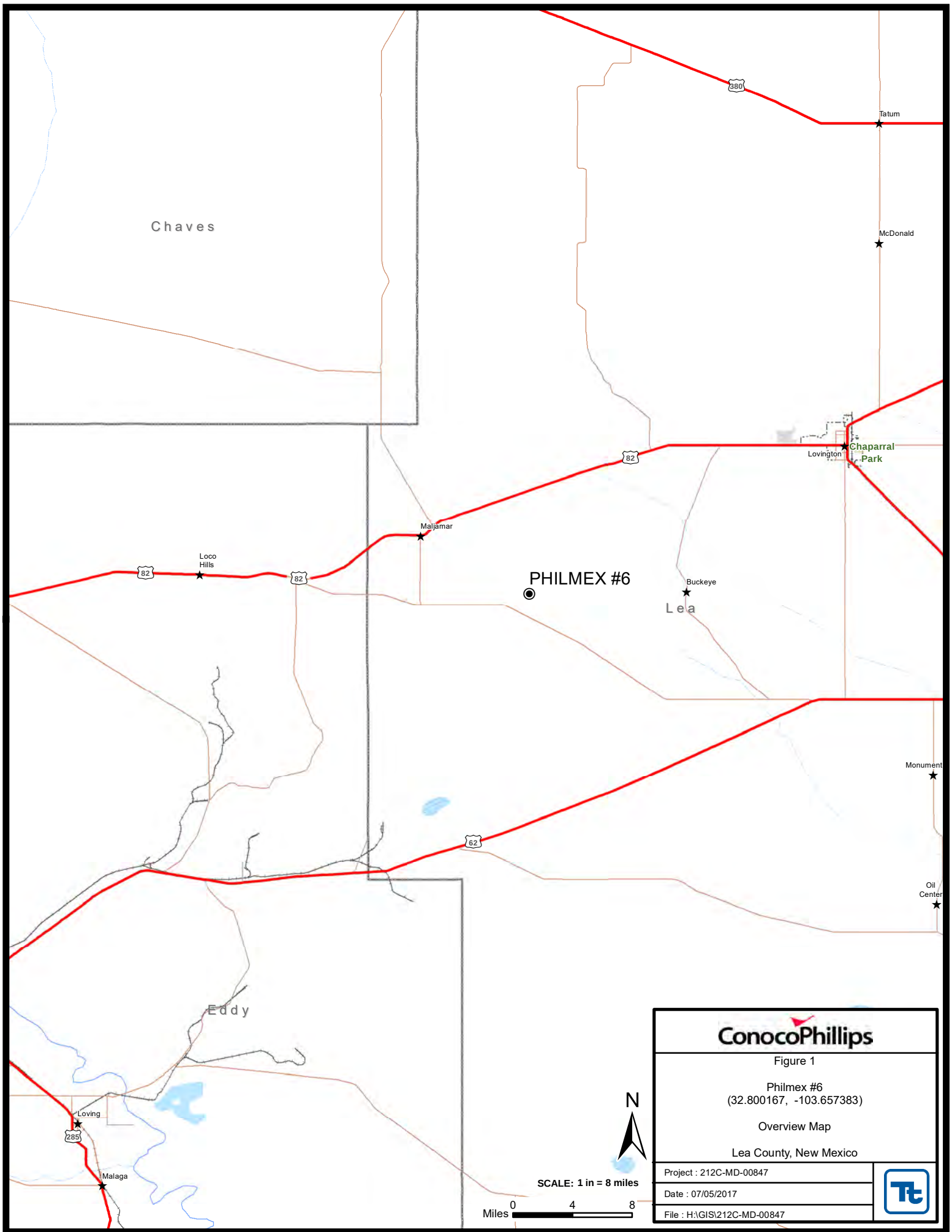
Respectfully submitted,
TETRA TECH

Clair Gonzales,
Geologist I

Ike Tavaréz,
Senior Project Manager, P.G.

cc: Neal Goates – ConocoPhillips

Figures



ConocoPhillips

Figure 1

Philmex #6
(32.800167, -103.657383)

Overview Map

Lea County, New Mexico

Project : 212C-MD-00847

Date : 07/05/2017

File : H:\GIS\212C-MD-00847





Tables

Table 1
ConocoPhillips
Philmex #6
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Field PID (PPM)	TPH				BTEX					Chlorides	
				TPH GRO mg/kg	TPH DRO mg/kg	TPH ORO mg/kg	Total TPH mg/kg	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Field Chlorides (PPM)	Chlorides (mg/kg)
BH-1 Shovel Samp. Shovel Samp. Shovel Samp.	05/11/17	0-1	1.5	-	-	-	-	-	-	-	-	-	160	-
	"	6	0	-	-	-	-	-	-	-	-	-	1600	-
	"	11	0	-	-	-	-	-	-	-	-	-	1360	-
	"	12	12.7	-	-	-	-	-	-	-	-	-	2400	-
	"	13	44.3	-	-	-	-	-	-	-	-	-	2880	-
	"	14	12.7	-	-	-	-	-	-	-	-	-	2520	-
	"	15	8.9	<13.7	<6.8	<6.8	<13.7	<0.0027	<0.0027	<0.0027	<0.0082	<0.0082	2800	3,480
	"	16	0.7	-	-	-	-	-	-	-	-	-	2080	-
	"	17	0	-	-	-	-	-	-	-	-	-	2000	-
	"	18	0	-	-	-	-	-	-	-	-	-	1840	-
	"	19	6.9	-	-	-	-	-	-	-	-	-	1840	-
	"	20	7.8	<13.0	<6.4	<6.4	<13.0	<0.0026	<0.0026	<0.0026	<0.0078	<0.0078	1720	1,650
	"	21	91.1	-	-	-	-	-	-	-	-	-	1200	-
	"	22	116	-	-	-	-	-	-	-	-	-	1000	-
	"	23	176	-	-	-	-	-	-	-	-	-	840	-
	"	24	105	-	-	-	-	-	-	-	-	-	800	-
	"	25	10.4	-	-	-	-	-	-	-	-	-	400	-
	"	30	67.6	<13.7	<6.8	<6.8	<13.7	<0.0027	<0.0027	<0.0027	<0.0082	<0.0082	240	254
	"	35	91.1	<12.8	<6.3	<6.3	<12.8	<0.0026	<0.0026	<0.0026	<0.0078	<0.0078	160	88.6
BH-2 Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp.	05/11/17	0-1	1.6	-	-	-	-	-	-	-	-	-	840	-
	"	2	0.1	<10.8	<5.3	<5.3	<10.8	<0.0021	<0.0021	<0.0021	<0.0064	<0.0064	1440	3,500
	"	3	0.2	-	-	-	-	-	-	-	-	-	1280	-
	"	4	0	<10.1	6.4	5.5	11.9	<0.0020	<0.0020	<0.0020	<0.0061	<0.0061	420	1,020
	"	9	1	-	-	-	-	-	-	-	-	-	480	-
	"	14	0	<10.1	<5.0	6.2	6.2	<0.0020	<0.0020	<0.0020	<0.0061	<0.0061	100	67.0

Table 1
ConocoPhillips
Philmex #6
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)		TPH				BTEX					Chlorides	
			Field PID (PPM)	TPH GRO mg/kg	TPH DRO mg/kg	TPH ORO mg/kg	Total TPH mg/kg	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Field Chlorides (PPM)	Chlorides (mg/kg)
BH-3 Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp.	05/11/17	0-1	104	-	-	-	-	-	-	-	-	-	900	-
	"	2	116	-	-	-	-	-	-	-	-	-	680	-
	"	3	17	-	-	-	-	-	-	-	-	-	580	-
	"	8	0	-	-	-	-	-	-	-	-	-	960	-
	"	9	0	<10.3	<5.1	<5.1	<10.3	<0.0021	<0.0021	<0.0021	<0.0062	<0.0062	960	767
	"	10	0	-	-	-	-	-	-	-	-	-	600	-
	"	11	1.2	-	-	-	-	-	-	-	-	-	480	-
	"	16	4.2	-	-	-	-	-	-	-	-	-	680	-
	"	17	4	<10.7	13.9	15.0	28.9	<0.0021	<0.0021	<0.0021	<0.0062	<0.0062	520	664
	"	22	13.7	-	-	-	-	-	-	-	-	-	200	-
	"	27	0	<10.4	25.3	42.5	67.8	<0.0021	<0.0021	<0.0021	<0.0062	<0.0062	200	151
BH-4 Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp. Shovel Samp.	05/11/17	0-1	28.7	-	-	-	-	-	-	-	-	-	2000	-
	"	2	0	-	-	-	-	-	-	-	-	-	1000	-
	"	3	0	-	-	-	-	-	-	-	-	-	1200	-
	"	4	90.5	-	-	-	-	-	-	-	-	-	680	-
	"	5	75	-	-	-	-	-	-	-	-	-	1960	-
	"	6	68.7	-	-	-	-	-	-	-	-	-	2460	-
	"	7	30.7	<10.8	<5.3	<5.3	<10.8	<0.0022	<0.0022	<0.0022	<0.0065	<0.0065	2560	2,560
	"	8	0	-	-	-	-	-	-	-	-	-	1640	-
	"	9	13.7	-	-	-	-	-	-	-	-	-	1600	-
	"	10	10.1	-	-	-	-	-	-	-	-	-	1440	-
	"	11	16.8	-	-	-	-	-	-	-	-	-	680	-
	"	12	14.4	<10.5	<5.2	<5.2	<10.5	<0.0021	<0.0021	<0.0021	<0.0064	<0.0064	480	268
	"	17	10.5	-	-	-	-	-	-	-	-	-	400	-
	"	22	1.9	<10.6	<5.2	<5.2	<10.6	<0.0021	<0.0021	<0.0021	<0.0064	<0.0064	120	87.4

Table 1
ConocoPhillips
Philmex #6
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)		TPH				BTEX					Chlorides	
			Field PID (PPM)	TPH GRO mg/kg	TPH DRO mg/kg	TPH ORO mg/kg	Total TPH mg/kg	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	Field Chlorides (PPM)	Chlorides (mg/kg)
BH-5	05/11/17	0-1	2.5	-	-	-	-	-	-	-	-	-	160	-
	"	2	1.7	-	-	-	-	-	-	-	-	-	280	-
	"	3	1.6	-	-	-	-	-	-	-	-	-	440	-
	"	8	0.2	<10.7	5.4	6.2	18.0	<0.0022	<0.0022	<0.0022	<0.0065	<0.0065	1,160	2,100
	"	9	0	<10.3	20.2	30.3	50.5	<0.0020	<0.0020	<0.0020	<0.0061	<0.0061	400	505
	"	14	0	-	-	-	-	-	-	-	-	-	440	-
	"	19	0	<10.3	<5.1	<5.1	<10.3	<0.0021	<0.0021	<0.0021	<0.0062	<0.0062	320	310

(-)

Not Analyzed



Proposed Excavation Depths



Liner Installation

Photos

ConocoPhillips
Philmex #6
Lea County, New Mexico



View West- Area of BH-1



View South – Area of BH-2

ConocoPhillips
Philmex #6
Lea County, New Mexico



View South – Area of BH-3



View Southwest – Area of BH-4

ConocoPhillips
Philmex #6
Lea County, New Mexico



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View South – Area of BH-5

Appendix A

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	ConocoPhillips Company	Contact	Mickey Garner
Address	3300 North A St. Bldg 6, Midland, TX 79705-5406	Telephone No.	505.391.3158
Facility Name	Philmex #6	Facility Type	Oil and Gas

Surface Owner	State of New Mexico	Mineral Owner	State of New Mexico	Lease No	30-025-01522-00
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	27	17S	33E					Lea

Latitude N 32 48.010 Longitude W 103 39.443

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Crude Oil	22bbl (22oil, 0water)	(15oil, 0water)
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Injection Tank	12-7-2007 0200	12-7-2007 0750
Was Immediate Notice Given?	If YES, To Whom?	
☐ Yes ☒ No ☒ Not Required	N/A	
By Whom? N/A	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.	
☐ Yes ☒ No	N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*

On Friday December 7, 2007 at 0750 the Tank at Philmex #6 was discovered to be overflowing due to the drive belts on the injection pump. Amount spilled was 22 bbls of oil. The spill was not contained and affected approximately 4000 sq/ft of pad. The MSO stopped production into the tank and called a vacuum truck to pick up the free liquids. 15 bbls of Crude Oil was recovered.

Describe Area Affected and Cleanup Action Taken.*

The spill was not contained and affected approximately 4000 sq/ft of pad. The MSO stopped production into the tank and called a vacuum truck to pick up the free liquids. 15 bbls of Crude Oil was recovered. The site will be delineated and remediated in accordance with NMOCD guidelines.

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:	OIL CONSERVATION DIVISION	
Printed Name: Mickey Garner	Approved by District Supervisor ENVIRONMENTAL ENGINEER	
Title: HSER Lead	Approval Date: 12-11-07	Expiration Date: 2-9-08
E-mail Address: Mickey.D.Garner@conocophillips.com	Conditions of Approval:	Attached ☐
Date: 12-10-2007	Phone: 505.391.3158	

SUBMIT FINAL C-141 w/
DATA ATTACHED BY

RPT#1681

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Conoco Phillips - Philmex #6
Lea County, New Mexico

16 South			32 East		
6	5	4	3	2	1
			65	265	265
7	8	9	10	11	12
Artesia					215
18	17	16	15	14	13
		221			215
19	20	21	22	23	24
220		210		210	
30	29	28	27	26	25
				243	
31	32	33	34	35	36
					260

16 South			33 East		
6	5	180	4	3	130
		150		2	148
7	8		9	10	142
	200			11	142
18	17		16	15	
	182	180		14	110
19	20		21	22	23
				120	
30	29		28	27	26
191		190		143	120
31	32	33	34	35	36
190	168		160		

16 South			34 East		
6	5	4	3	2	1
63				73	65
7	8	9	10	11	12
120	105	125			75
18	17	16	15	14	13
160	130			82	72
19	20	21	22	23	24
116	125	100	125		
30	29	28	27	26	25
125	118	118		125	
31	32	33	34	35	36
	100		120	85	65

17 South			32 East		
6	5	4	82	3	2
		Maljamar	175	60	1
7	8	9	10	11	12
			132	70	
18	17	16	15	14	13
				88	120
19	20	21	22	23	24
30	180	29	28	27	26
dry					
31	32	33	34	35	36

17 South			33 East		
6	90	5	4	3	155
			158	2	158
7	182	8	9	10	1
		173	161		150
18	17	16	15	14	13
188	180				115
19	20	21	22	23	24
	190			115	
30	29	28	27	26	25
204	133				137
31	32	33	34	35	36
		120		155	

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

18 South			32 East		
6	5	4	65	3	2
7	460	8	9	10	1
82				11	12
18	17	16	15	14	13
		84			
19	20	21	22	23	24
	164		429		
30	29	28	27	26	25
31	32	33	34	35	36
			117		

18 South			33 East		
6	5	4	3	2	1
			60		
7	8	100	9	10	11
				62	46
18	17	16	15	14	13
	85			36	60
19	20	21	22	23	24
>140					195
30	29	28	27	26	25
35					
31	32	33	34	35	36
		177			

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

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



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															
POD Number	Code	Sub-basin	County	Q Q Q						X	Y	DepthWell	Water		
				64	16	4	Sec	Tws	Rng				Depth	Column	
L 01391 POD7		L	LE	2	2	2	08	17S	33E	623670	3636047		280	172	108
L 01695	R	L	ED	4	4	2	25	17S	33E	630220	3630704*		230	137	93
L 01880		L	LE	3	4	3	13	17S	33E	629181	3633106*		245		
L 01880 S		L	LE	4	3	3	12	17S	33E	628955	3634708*		259	115	144
L 01880 S2		L	LE	2	1	3	13	17S	33E	628972	3633702*		235	151	84
L 01880 S3		L	LE	1	4	1	12	17S	33E	629148	3635720*		268	155	113
L 01881		L	LE	3	3	3	13	17S	33E	628778	3633100*		242		
L 01882		L	LE	4	3	4	13	17S	33E	629785	3633112*		245		
L 01883		L	LE	4	4	4	13	17S	33E	630189	3633119*		260	147	113
L 01884		L	LE	1	4	3	13	17S	33E	629181	3633306*		250		
L 02687		L	LE		2	2	36	17S	33E	630137	3629598*				
L 02770		L	LE			2	18	17S	33E	621836	3634093*		216	179	37
L 02770 S		L	LE			4	07	17S	33E	621825	3634898*		227	182	45
L 02770 S2		L	LE	2	2	3	18	17S	33E	621338	3633583*		214	184	30
L 02770 S3		L	LE	2	2	3	18	17S	33E	621338	3633583*		220	202	18
L 02875		L	LE		2	2	20	17S	33E	623662	3632717*		250	190	60
L 03012		L	LE		4	1	03	17S	33E	626012	3637179*		210	155	55
L 03133		L	LE	3	1	3	23	17S	33E	627188	3631868*		230		
L 03528		L	LE	3	4	4	04	17S	33E	625120	3636261*		265	158	107
L 03528 S2		L	LE	1	3	3	09	17S	33E	623935	3634833*		262	180	82
L 03528 S3		L	LE	4	4	1	03	17S	33E	626111	3637078*		271	155	116
L 03598		L	LE	1	1	1	06	17S	33E	620604	3637673		287	210	77
L 03598 S		L	LE	2	2	2	05	17S	33E	623690	3637642*		272	160	112
L 03622		L	LE				17	17S	33E	623053	3633703*		226	180	46
L 03713		L	LE	3	4	1	28	17S	33E	624391	3630617*		210		
L 03726		L	LE	1	2	2	18	17S	33E	621930	3634400*		208	188	20
L 03749		L	LE		3	3	09	17S	33E	624036	3634734*		230	160	70
L 03750		L	LE		4	1	01	17S	33E	629228	3637230*		180	150	30
L 03782		L	LE	4	4	4	02	17S	33E	628532	3636311*		183	151	32
L 04038		L	LE		1	4	08	17S	33E	623226	3635124*		245	173	72
L 04122		L	LE		2	3	07	17S	33E	621216	3635093*		249	214	35
L 04333		L	LE		1	1	13	17S	33E	628862	3634407*		217	165	52
L 04363		L	LE	1	2	3	35	17S	33E	627634	3628855*		226	160	66

L 04524	L	LE			06	17S	33E	621387	3636896*		100	90	10	
L 04935	L	LE	2	1	02	17S	33E	627614	3637606*		204	162	42	
L 05055	L	LE	3	3	4	35	17S	33E	628042	3628259*		233	150	83
L 05096	L	LE	3	3	4	35	17S	33E	628042	3628259*		233	150	83
L 09831	L	LE	4	2	01	17S	33E	630034	3637246*		200			
L 09891	L	LE	4	4	16	17S	33E	625264	3633144*		190			
L 10212	L	LE	4	4	02	17S	33E	628433	3636412*		273	168	105	
L 12974 POD1	L	LE	3	4	3	18	17S	33E	621233	3632940		140	130	10
L 13049 POD1	L	LE	2	2	2	29	17S	33E	623782	3631207*		244	204	40
L 13909 POD1	L	LE	4	1	4	31	17S	33E	621735	3628514		240	240	0
L 14136 POD1	L	LE	3	3	2	12	17S	33E	629604	3635569		245	141	104
L 14159 POD1	L	LE	3	1	3	28	17S	33E	624030	3630169		298	165	133
RA 11936 POD1		LE	1	4	1	19	17S	33E	621246	3632321		92		
RA 11937 POD1		LE	1	4	1	19	17S	33E	621244	3632281		95		
RA 11957 POD1		LE	3	4	1	19	17S	33E	621177	3632200		55		

Average Depth to Water: **165 feet**Minimum Depth: **90 feet**Maximum Depth: **240 feet****Record Count:** 48**PLSS Search:****Township:** 17S **Range:** 33E

*UTM location was derived from PLSS - see Help

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

7/5/17 7:43 AM

WATER COLUMN/ AVERAGE DEPTH TO
WATER

Appendix C

June 02, 2017

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

RE: Project: 212C-MD-00847/Philmex #6 Soil
Pace Project No.: 7566062

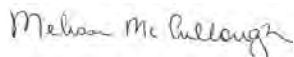
Dear Greg Pope:

Enclosed are the analytical results for sample(s) received by the laboratory on May 16, 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.

Revised report on 06/02/2017 to include chloride on sample 001.

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

Sincerely,



Melissa McCullough
melissa.mccullough@pacelabs.com
(972)727-8059
Project Manager

Enclosures

cc: Jeanne Fitch, Tetra Tech
Todd Wells, TetraTech



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

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

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SAMPLE SUMMARY

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7566062001	BH#1 (15')	Solid	05/11/17 00:01	05/16/17 09:00
7566062002	BH#1 (20')	Solid	05/11/17 00:01	05/16/17 09:00
7566062004	BH#1 (35')	Solid	05/11/17 00:01	05/16/17 09:00
7566062005	BH#2 (2')	Solid	05/11/17 00:01	05/16/17 09:00
7566062006	BH#2 (4')	Solid	05/11/17 00:01	05/16/17 09:00
7566062007	BH#2 (14')	Solid	05/11/17 00:01	05/16/17 09:00
7566062008	BH#3 (9')	Solid	05/11/17 00:01	05/16/17 09:00
7566062009	BH#3 (17')	Solid	05/11/17 00:01	05/16/17 09:00
7566062010	BH#3 (27')	Solid	05/11/17 00:01	05/16/17 09:00
7566062011	BH#4 (7')	Solid	05/11/17 00:01	05/16/17 09:00
7566062012	BH#4 (12')	Solid	05/11/17 00:01	05/16/17 09:00
7566062013	BH#4 (22')	Solid	05/11/17 00:01	05/16/17 09:00
7566062014	BH#5 (8')	Solid	05/11/17 00:01	05/16/17 09:00
7566062015	BH#5 (9')	Solid	05/11/17 00:01	05/16/17 09:00
7566062016	BH#5 (19')	Solid	05/11/17 00:01	05/16/17 09:00

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7566062001	BH#1 (15')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062002	BH#1 (20')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062004	BH#1 (35')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062005	BH#2 (2')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062006	BH#2 (4')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062007	BH#2 (14')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062008	BH#3 (9')	EPA 8015B	JS	2	PASI-D

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7566062009	BH#3 (17')	EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
7566062010	BH#3 (27')	EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
7566062011	BH#4 (7')	EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
7566062012	BH#4 (12')	EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
7566062013	BH#4 (22')	EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
7566062014	BH#5 (8')	EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062014	BH#5 (8')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JS	2	PASI-D

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7566062015	BH#5 (9')	EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
		EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566062016	BH#5 (19')	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#1 (15') **Lab ID: 7566062001** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	6.8	1	05/22/17 12:41	05/22/17 21:53		
Surrogates								
a-Pinene (S)	29	%	10-87	1	05/22/17 12:41	05/22/17 21:53		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	6.8	1	05/22/17 12:41	05/22/17 21:53		N2
Surrogates								
a-Pinene (S)	38	%	17-70	1	05/22/17 12:41	05/22/17 21:53		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	13.7	1	05/24/17 00:00	05/24/17 18:42		
Surrogates								
4-Bromofluorobenzene (S)	96	%	64-122	1	05/24/17 00:00	05/24/17 18:42	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0027	1	05/17/17 15:42	05/17/17 15:48	71-43-2	
Ethylbenzene	ND	mg/kg	0.0027	1	05/17/17 15:42	05/17/17 15:48	100-41-4	
Toluene	ND	mg/kg	0.0027	1	05/17/17 15:42	05/17/17 15:48	108-88-3	
Xylene (Total)	ND	mg/kg	0.0082	1	05/17/17 15:42	05/17/17 15:48	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%	70-130	1	05/17/17 15:42	05/17/17 15:48	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 15:48	460-00-4	
Toluene-d8 (S)	99	%	70-130	1	05/17/17 15:42	05/17/17 15:48	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	27.6	%		1		05/19/17 11:43		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	3480	mg/kg	276	100	05/18/17 08:14	05/19/17 11:55	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#1 (20') **Lab ID:** 7566062002 **Collected:** 05/11/17 00:01 **Received:** 05/16/17 09:00 **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	6.4	1	05/22/17 12:41	05/23/17 12:02		
Surrogates								
a-Pinene (S)	26	%	10-87	1	05/22/17 12:41	05/23/17 12:02		
8015M Oil Range Organics								
Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	6.4	1	05/22/17 12:41	05/22/17 22:19		N2
Surrogates								
a-Pinene (S)	34	%	17-70	1	05/22/17 12:41	05/22/17 22:19		
Gasoline Range Organics								
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	13.0	1	05/24/17 00:00	05/24/17 18:58		
Surrogates								
4-Bromofluorobenzene (S)	91	%	64-122	1	05/24/17 00:00	05/24/17 18:58	460-00-4	
8260 MSV UST Soil Low Level								
Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0026	1	05/17/17 15:42	05/17/17 16:12	71-43-2	
Ethylbenzene	ND	mg/kg	0.0026	1	05/17/17 15:42	05/17/17 16:12	100-41-4	
Toluene	ND	mg/kg	0.0026	1	05/17/17 15:42	05/17/17 16:12	108-88-3	
Xylene (Total)	ND	mg/kg	0.0078	1	05/17/17 15:42	05/17/17 16:12	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	05/17/17 15:42	05/17/17 16:12	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 16:12	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 16:12	2037-26-5	
Percent Moisture								
Analytical Method: ASTM D2974-07								
Percent Moisture	23.0	%		1		05/19/17 11:43		
300.0 IC Anions 28 Days								
Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	1650	mg/kg	26.0	10	05/18/17 08:14	05/19/17 00:04	16887-00-6	M1

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#1 (35') **Lab ID: 7566062004** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	6.3	1	05/22/17 12:41	05/23/17 12:28		
Surrogates								
a-Pinene (S)	33	%	10-87	1	05/22/17 12:41	05/23/17 12:28		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	6.3	1	05/22/17 12:41	05/22/17 22:46		N2
Surrogates								
a-Pinene (S)	40	%	17-70	1	05/22/17 12:41	05/22/17 22:46		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	12.8	1	05/24/17 00:00	05/24/17 19:14		
Surrogates								
4-Bromofluorobenzene (S)	83	%	64-122	1	05/24/17 00:00	05/24/17 19:14	460-00-4	
8260 MSV UST Soil Low Level Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low								
Benzene	ND	mg/kg	0.0026	1	05/17/17 15:42	05/17/17 17:00	71-43-2	
Ethylbenzene	ND	mg/kg	0.0026	1	05/17/17 15:42	05/17/17 17:00	100-41-4	
Toluene	ND	mg/kg	0.0026	1	05/17/17 15:42	05/17/17 17:00	108-88-3	
Xylene (Total)	ND	mg/kg	0.0078	1	05/17/17 15:42	05/17/17 17:00	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 17:00	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1	05/17/17 15:42	05/17/17 17:00	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 17:00	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	22.2	%		1		05/19/17 11:43		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	88.6	mg/kg	2.6	1	05/18/17 08:14	05/19/17 00:22	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#2 (2') **Lab ID: 7566062005** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	5.3	1	05/22/17 12:41	05/22/17 21:01		
Surrogates								
a-Pinene (S)	32	%	10-87	1	05/22/17 12:41	05/22/17 21:01		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	5.3	1	05/22/17 12:41	05/22/17 21:01		N2
Surrogates								
a-Pinene (S)	42	%	17-70	1	05/22/17 12:41	05/22/17 21:01		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.8	1	05/24/17 00:00	05/24/17 19:31		
Surrogates								
4-Bromofluorobenzene (S)	85	%	64-122	1	05/24/17 00:00	05/24/17 19:31	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	05/17/17 09:45	05/17/17 14:13	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 09:45	05/17/17 14:13	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 09:45	05/17/17 14:13	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	05/17/17 09:45	05/17/17 14:13	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1	05/17/17 09:45	05/17/17 14:13	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1	05/17/17 09:45	05/17/17 14:13	460-00-4	
Toluene-d8 (S)	98	%	70-130	1	05/17/17 09:45	05/17/17 14:13	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	6.6	%		1		05/19/17 11:43		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	3500	mg/kg	214	100	05/18/17 08:14	05/19/17 12:13	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#2 (4') **Lab ID: 7566062006** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	6.4	mg/kg	5.0	1	05/22/17 12:41	05/23/17 18:37		
Surrogates								
a-Pinene (S)	37	%	10-87	1	05/22/17 12:41	05/23/17 18:37		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	5.5	mg/kg	5.0	1	05/22/17 12:41	05/22/17 21:28		N2
Surrogates								
a-Pinene (S)	37	%	17-70	1	05/22/17 12:41	05/23/17 18:37		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.1	1	05/24/17 00:00	05/24/17 19:47		
Surrogates								
4-Bromofluorobenzene (S)	93	%	64-122	1	05/24/17 00:00	05/24/17 19:47	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	05/17/17 15:42	05/17/17 17:24	71-43-2	
Ethylbenzene	ND	mg/kg	0.0020	1	05/17/17 15:42	05/17/17 17:24	100-41-4	
Toluene	ND	mg/kg	0.0020	1	05/17/17 15:42	05/17/17 17:24	108-88-3	
Xylene (Total)	ND	mg/kg	0.0061	1	05/17/17 15:42	05/17/17 17:24	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1	05/17/17 15:42	05/17/17 17:24	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1	05/17/17 15:42	05/17/17 17:24	460-00-4	
Toluene-d8 (S)	102	%	70-130	1	05/17/17 15:42	05/17/17 17:24	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	1.9	%		1		05/19/17 11:43		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	1020	mg/kg	20.4	10	05/18/17 08:14	05/19/17 02:27	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#2 (14') **Lab ID: 7566062007** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	05/22/17 12:41	05/22/17 23:12		
Surrogates								
a-Pinene (S)	36	%	10-87	1	05/22/17 12:41	05/22/17 23:12		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	6.2	mg/kg	5.0	1	05/22/17 12:41	05/22/17 23:12		N2
Surrogates								
a-Pinene (S)	46	%	17-70	1	05/22/17 12:41	05/22/17 23:12		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.1	1	05/24/17 00:00	05/24/17 20:03		
Surrogates								
4-Bromofluorobenzene (S)	88	%	64-122	1	05/24/17 00:00	05/24/17 20:03	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	05/17/17 15:42	05/17/17 17:48	71-43-2	
Ethylbenzene	ND	mg/kg	0.0020	1	05/17/17 15:42	05/17/17 17:48	100-41-4	
Toluene	ND	mg/kg	0.0020	1	05/17/17 15:42	05/17/17 17:48	108-88-3	
Xylene (Total)	ND	mg/kg	0.0061	1	05/17/17 15:42	05/17/17 17:48	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	05/17/17 15:42	05/17/17 17:48	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 17:48	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 17:48	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	1.3	%		1		05/19/17 11:44		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	67.0	mg/kg	2.0	1	05/18/17 08:14	05/19/17 02:44	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#3 (9') **Lab ID: 7566062008** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	5.1	1	05/22/17 12:41	05/22/17 23:37		
Surrogates								
a-Pinene (S)	23	%	10-87	1	05/22/17 12:41	05/22/17 23:37		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	5.1	1	05/22/17 12:41	05/22/17 23:37		N2
Surrogates								
a-Pinene (S)	32	%	17-70	1	05/22/17 12:41	05/22/17 23:37		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.3	1	05/24/17 00:00	05/24/17 20:20		
Surrogates								
4-Bromofluorobenzene (S)	90	%	64-122	1	05/24/17 00:00	05/24/17 20:20	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	05/17/17 15:42	05/17/17 18:11	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 18:11	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 18:11	108-88-3	
Xylene (Total)	ND	mg/kg	0.0062	1	05/17/17 15:42	05/17/17 18:11	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%	70-130	1	05/17/17 15:42	05/17/17 18:11	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 18:11	460-00-4	
Toluene-d8 (S)	99	%	70-130	1	05/17/17 15:42	05/17/17 18:11	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	3.4	%		1		05/19/17 11:44		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	767	mg/kg	20.7	10	05/18/17 08:14	05/19/17 03:38	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#3 (17') **Lab ID: 7566062009** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	13.9	mg/kg	5.3	1	05/22/17 12:41	05/23/17 13:20		
Surrogates								
a-Pinene (S)	31	%	10-87	1	05/22/17 12:41	05/23/17 13:20		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	15.0	mg/kg	5.3	1	05/22/17 12:41	05/23/17 01:22		N2
Surrogates								
a-Pinene (S)	36	%	17-70	1	05/22/17 12:41	05/23/17 01:22		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.7	1	05/24/17 00:00	05/24/17 20:37		
Surrogates								
4-Bromofluorobenzene (S)	82	%	64-122	1	05/24/17 00:00	05/24/17 20:37	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	05/17/17 15:42	05/17/17 18:35	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 18:35	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 18:35	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	05/17/17 15:42	05/17/17 18:35	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%	70-130	1	05/17/17 15:42	05/17/17 18:35	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 18:35	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 18:35	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	6.6	%		1		05/19/17 11:44		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	664	mg/kg	21.4	10	05/19/17 15:15	05/20/17 20:18	16887-00-6	M1,R1

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#3 (27') **Lab ID: 7566062010** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	25.3	mg/kg	5.1	1	05/22/17 12:41	05/23/17 12:54		
Surrogates								
a-Pinene (S)	28	%	10-87	1	05/22/17 12:41	05/23/17 12:54		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	42.5	mg/kg	5.1	1	05/22/17 12:41	05/23/17 00:04		N2
Surrogates								
a-Pinene (S)	39	%	17-70	1	05/22/17 12:41	05/23/17 00:04		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.4	1	05/24/17 00:00	05/24/17 21:26		
Surrogates								
4-Bromofluorobenzene (S)	94	%	64-122	1	05/24/17 00:00	05/24/17 21:26	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	05/17/17 15:42	05/17/17 18:59	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 18:59	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 18:59	108-88-3	
Xylene (Total)	ND	mg/kg	0.0063	1	05/17/17 15:42	05/17/17 18:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	05/17/17 15:42	05/17/17 18:59	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 18:59	460-00-4	
Toluene-d8 (S)	99	%	70-130	1	05/17/17 15:42	05/17/17 18:59	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	4.0	%		1		05/19/17 11:44		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	151	mg/kg	20.8	10	05/19/17 15:15	05/20/17 21:12	16887-00-6	M1

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#4 (7') **Lab ID: 7566062011** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	5.3	1	05/22/17 12:41	05/23/17 13:46		
Surrogates								
a-Pinene (S)	28	%	10-87	1	05/22/17 12:41	05/23/17 13:46		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	5.3	1	05/22/17 12:41	05/23/17 03:32		N2
Surrogates								
a-Pinene (S)	37	%	17-70	1	05/22/17 12:41	05/23/17 03:32		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.8	1	05/24/17 00:00	05/24/17 21:42		
Surrogates								
4-Bromofluorobenzene (S)	91	%	64-122	1	05/24/17 00:00	05/24/17 21:42	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	05/17/17 15:42	05/17/17 19:23	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 15:42	05/17/17 19:23	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 15:42	05/17/17 19:23	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	05/17/17 15:42	05/17/17 19:23	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	05/17/17 15:42	05/17/17 19:23	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 19:23	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 19:23	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	6.5	%		1		05/19/17 11:44		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2560	mg/kg	214	100	05/19/17 15:15	05/21/17 12:43	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#4 (12') **Lab ID: 7566062012** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	5.2	1	05/22/17 12:41	05/23/17 14:12		
Surrogates								
a-Pinene (S)	30	%	10-87	1	05/22/17 12:41	05/23/17 14:12		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	5.2	1	05/22/17 12:41	05/23/17 03:58		N2
Surrogates								
a-Pinene (S)	40	%	17-70	1	05/22/17 12:41	05/23/17 03:58		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.5	1	05/24/17 00:00	05/24/17 21:59		
Surrogates								
4-Bromofluorobenzene (S)	86	%	64-122	1	05/24/17 00:00	05/24/17 21:59	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	05/17/17 15:42	05/17/17 19:46	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 19:46	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 19:46	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	05/17/17 15:42	05/17/17 19:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%	70-130	1	05/17/17 15:42	05/17/17 19:46	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 19:46	460-00-4	
Toluene-d8 (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 19:46	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	5.3	%		1		05/19/17 11:45		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	268	mg/kg	21.1	10	05/19/17 15:15	05/20/17 22:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#4 (22') **Lab ID: 7566062013** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	5.2	1	05/22/17 12:41	05/23/17 04:24		
Surrogates								
a-Pinene (S)	21	%	10-87	1	05/22/17 12:41	05/23/17 04:24		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	5.2	1	05/22/17 12:41	05/23/17 04:24		N2
Surrogates								
a-Pinene (S)	29	%	17-70	1	05/22/17 12:41	05/23/17 04:24		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.6	1	05/24/17 00:00	05/24/17 22:15		
Surrogates								
4-Bromofluorobenzene (S)	91	%	64-122	1	05/24/17 00:00	05/24/17 22:15	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	05/17/17 15:42	05/17/17 20:10	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 20:10	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 20:10	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	05/17/17 15:42	05/17/17 20:10	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	05/17/17 15:42	05/17/17 20:10	17060-07-0	
4-Bromofluorobenzene (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 20:10	460-00-4	
Toluene-d8 (S)	99	%	70-130	1	05/17/17 15:42	05/17/17 20:10	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	5.0	%		1		05/19/17 11:45		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	87.4	mg/kg	2.1	1	05/19/17 15:15	05/21/17 13:01	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#5 (8') **Lab ID: 7566062014** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	5.4	mg/kg	5.3	1	05/22/17 12:41	05/23/17 14:38		
Surrogates								
a-Pinene (S)	34	%	10-87	1	05/22/17 12:41	05/23/17 14:38		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	6.2	mg/kg	5.3	1	05/22/17 12:41	05/23/17 04:50		N2
Surrogates								
a-Pinene (S)	39	%	17-70	1	05/22/17 12:41	05/23/17 04:50		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.7	1	05/25/17 00:00	05/25/17 16:31		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	05/25/17 00:00	05/25/17 16:31	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	05/17/17 15:42	05/17/17 20:34	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 15:42	05/17/17 20:34	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 15:42	05/17/17 20:34	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	05/17/17 15:42	05/17/17 20:34	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 20:34	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 20:34	460-00-4	
Toluene-d8 (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 20:34	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	7.0	%		1		05/19/17 11:45		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	2100	mg/kg	215	100	05/19/17 15:15	05/21/17 13:18	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#5 (9') **Lab ID: 7566062015** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	20.2	mg/kg	5.0	1	05/22/17 12:41	05/23/17 15:04		
Surrogates								
a-Pinene (S)	33	%	10-87	1	05/22/17 12:41	05/23/17 15:04		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	30.3	mg/kg	5.0	1	05/22/17 12:41	05/23/17 05:16		N2
Surrogates								
a-Pinene (S)	42	%	17-70	1	05/22/17 12:41	05/23/17 05:16		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.3	1	05/25/17 00:00	05/25/17 17:21		
Surrogates								
4-Bromofluorobenzene (S)	83	%	64-122	1	05/25/17 00:00	05/25/17 17:21	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	05/17/17 15:42	05/17/17 20:58	71-43-2	
Ethylbenzene	ND	mg/kg	0.0020	1	05/17/17 15:42	05/17/17 20:58	100-41-4	
Toluene	ND	mg/kg	0.0020	1	05/17/17 15:42	05/17/17 20:58	108-88-3	
Xylene (Total)	ND	mg/kg	0.0061	1	05/17/17 15:42	05/17/17 20:58	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%	70-130	1	05/17/17 15:42	05/17/17 20:58	17060-07-0	
4-Bromofluorobenzene (S)	102	%	70-130	1	05/17/17 15:42	05/17/17 20:58	460-00-4	
Toluene-d8 (S)	98	%	70-130	1	05/17/17 15:42	05/17/17 20:58	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	1.9	%		1		05/19/17 11:45		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	505	mg/kg	20.4	10	05/19/17 15:15	05/20/17 23:53	16887-00-6	

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ANALYTICAL RESULTS

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Sample: BH#5 (19') **Lab ID: 7566062016** Collected: 05/11/17 00:01 Received: 05/16/17 09:00 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	5.1	1	05/22/17 12:41	05/23/17 15:31		
Surrogates								
a-Pinene (S)	27	%	10-87	1	05/22/17 12:41	05/23/17 15:31		
8015M Oil Range Organics Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546								
Oil Range Organics	ND	mg/kg	5.1	1	05/22/17 12:41	05/23/17 05:42		N2
Surrogates								
a-Pinene (S)	34	%	17-70	1	05/22/17 12:41	05/23/17 05:42		
Gasoline Range Organics Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B								
TPH-GRO	ND	mg/kg	10.3	1	05/25/17 00:00	05/25/17 17:41		
Surrogates								
4-Bromofluorobenzene (S)	102	%	64-122	1	05/25/17 00:00	05/25/17 17:41	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	05/17/17 15:42	05/17/17 21:22	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 21:22	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 15:42	05/17/17 21:22	108-88-3	
Xylene (Total)	ND	mg/kg	0.0062	1	05/17/17 15:42	05/17/17 21:22	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	100	%	70-130	1	05/17/17 15:42	05/17/17 21:22	17060-07-0	
4-Bromofluorobenzene (S)	101	%	70-130	1	05/17/17 15:42	05/17/17 21:22	460-00-4	
Toluene-d8 (S)	99	%	70-130	1	05/17/17 15:42	05/17/17 21:22	2037-26-5	
Percent Moisture Analytical Method: ASTM D2974-07								
Percent Moisture	3.7	%		1		05/19/17 13:48		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Preparation Method: EPA 300.0								
Chloride	310	mg/kg	20.8	10	05/19/17 15:15	05/21/17 00:11	16887-00-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

QC Batch:	478228	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013		

METHOD BLANK:	1958922	Matrix:	Solid
Associated Lab Samples:	7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	05/24/17 14:54	
4-Bromofluorobenzene (S)	%	106	64-122	05/24/17 14:54	

LABORATORY CONTROL SAMPLE: 1958923

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	54.3	109	85-130	
4-Bromofluorobenzene (S)	%			108	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1958924 1958925

Parameter	Units	7566063018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	53.1	53.1	56.8	56.0	106	104	85-125	1	12	
4-Bromofluorobenzene (S)	%						106	101	64-122			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

QC Batch:	478454	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 5035A/5030B	Analysis Description:	Gasoline Range Organics
Associated Lab Samples:	7566062014, 7566062015, 7566062016		

METHOD BLANK: 1959801 Matrix: Solid

Associated Lab Samples: 7566062014, 7566062015, 7566062016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	05/25/17 16:15	
4-Bromofluorobenzene (S)	%	103	64-122	05/25/17 16:15	

LABORATORY CONTROL SAMPLE: 1959802

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	57.1	114	85-130	
4-Bromofluorobenzene (S)	%			100	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1959803 1959804

Parameter	Units	7566062014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	53.6	53.6	59.8	58.0	110	106	85-125	3	12	
4-Bromofluorobenzene (S)	%						93	96	64-122			

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil
Pace Project No.: 7566062

QC Batch: 76173 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level
Associated Lab Samples: 7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016

METHOD BLANK: 331022 Matrix: Solid
Associated Lab Samples: 7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	05/17/17 13:02	
Ethylbenzene	mg/kg	ND	0.0020	05/17/17 13:02	
Toluene	mg/kg	ND	0.0020	05/17/17 13:02	
Xylene (Total)	mg/kg	ND	0.0060	05/17/17 13:02	
1,2-Dichloroethane-d4 (S)	%.	100	70-130	05/17/17 13:02	
4-Bromofluorobenzene (S)	%.	101	70-130	05/17/17 13:02	
Toluene-d8 (S)	%.	100	70-130	05/17/17 13:02	

LABORATORY CONTROL SAMPLE: 331023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.021	107	74-130	
Ethylbenzene	mg/kg	.02	0.022	110	77-127	
Toluene	mg/kg	.02	0.021	107	74-127	
Xylene (Total)	mg/kg	.06	0.063	105	74-128	
1,2-Dichloroethane-d4 (S)	%.			103	70-130	
4-Bromofluorobenzene (S)	%.			98	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331024 331025

Parameter	Units	7566062005 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	0.016	0.016	73	75	32-152	2	20	
Ethylbenzene	mg/kg	ND	.021	.021	0.017	0.018	81	83	18-166	3	20	
Toluene	mg/kg	ND	.021	.021	0.017	0.017	78	79	18-166	1	20	
Xylene (Total)	mg/kg	ND	.064	.064	0.051	0.051	79	80	10-172	1	20	
1,2-Dichloroethane-d4 (S)	%.						103	101	70-130			
4-Bromofluorobenzene (S)	%.						97	99	70-130			
Toluene-d8 (S)	%.						101	102	70-130			

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil
Pace Project No.: 7566062

QC Batch: 76379 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016

METHOD BLANK: 332024 Matrix: Solid
Associated Lab Samples: 7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	3.3	05/22/17 20:35	
a-Pinene (S)	%.	34	10-87	05/22/17 20:35	

LABORATORY CONTROL SAMPLE: 332025

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.3	31.3	94	42-124	
a-Pinene (S)	%.			38	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 332026 332027

Parameter	Units	7566062001 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	ND	68.9	69	65.0	62.8	91	87	10-172	3	20	
a-Pinene (S)	%.						40	40	10-87			

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

QC Batch:	76423	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015 ORO
Associated Lab Samples:	7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016		

METHOD BLANK: 332186 Matrix: Solid
Associated Lab Samples: 7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	3.3	05/22/17 20:35	N2
a-Pinene (S)	%.	44	17-70	05/22/17 20:35	

LABORATORY CONTROL SAMPLE: 332187

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.3	32.1	96	48-145	N2
a-Pinene (S)	%.			49	17-70	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 332188 332189

Parameter	Units	7566062001 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	ND	68.9	68.9	66.8	72.0	92	100	10-196	8	40	N2
a-Pinene (S)	%.						43	46	17-70			

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

QC Batch:	76335	Analysis Method:	ASTM D2974-07
QC Batch Method:	ASTM D2974-07	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008, 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015		

SAMPLE DUPLICATE: 331742

Parameter	Units	7565844001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.4	17.8	21	20	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

QC Batch:	76355	Analysis Method:	ASTM D2974-07
QC Batch Method:	ASTM D2974-07	Analysis Description:	Dry Weight/Percent Moisture
Associated Lab Samples:	7566062016		

SAMPLE DUPLICATE: 331864

Parameter	Units	7566062016 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	3.7	3.8	1	20	

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

QC Batch:	76362	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples: 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016			

METHOD BLANK:	331891	Matrix:	Solid
Associated Lab Samples: 7566062009, 7566062010, 7566062011, 7566062012, 7566062013, 7566062014, 7566062015, 7566062016			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	2.0	05/20/17 19:43	

LABORATORY CONTROL SAMPLE: 331892						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	50	47.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331893													331894		
Parameter	Units	7566062009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Chloride	mg/kg	664	535	535	1800	1230	212	105	90-110	38	20	M1, R1			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331895													331896		
Parameter	Units	7566062010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Chloride	mg/kg	151	521	521	587	623	84	91	90-110	6	20	M1			

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QUALITY CONTROL DATA

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

QC Batch:	76364	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples: 7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008			

METHOD BLANK:	331903	Matrix:	Solid
Associated Lab Samples: 7566062001, 7566062002, 7566062004, 7566062005, 7566062006, 7566062007, 7566062008			

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	2.0	05/23/17 08:03	

LABORATORY CONTROL SAMPLE: 331898						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	50	47.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331904													331905		
Parameter	Units	7566062002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Chloride	mg/kg	1650	649	649	2490	2490	128	130	90-110	0	20	M1			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331906													331907		
Parameter	Units	7566062005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual			
Chloride	mg/kg	3500	5350	5350	8840	8850	100	100	90-110	0	20				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 212C-MD-00847/Philmex #6 Soil
Pace Project No.: 7566062

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.

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
N2 The lab does not hold NELAC/TNI accreditation for this parameter.
R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7566062001	BH#1 (15')	EPA 3546	76379	EPA 8015B	76478
7566062002	BH#1 (20')	EPA 3546	76379	EPA 8015B	76478
7566062004	BH#1 (35')	EPA 3546	76379	EPA 8015B	76478
7566062005	BH#2 (2')	EPA 3546	76379	EPA 8015B	76478
7566062006	BH#2 (4')	EPA 3546	76379	EPA 8015B	76478
7566062007	BH#2 (14')	EPA 3546	76379	EPA 8015B	76478
7566062008	BH#3 (9')	EPA 3546	76379	EPA 8015B	76478
7566062009	BH#3 (17')	EPA 3546	76379	EPA 8015B	76478
7566062010	BH#3 (27')	EPA 3546	76379	EPA 8015B	76478
7566062011	BH#4 (7')	EPA 3546	76379	EPA 8015B	76478
7566062012	BH#4 (12')	EPA 3546	76379	EPA 8015B	76478
7566062013	BH#4 (22')	EPA 3546	76379	EPA 8015B	76478
7566062014	BH#5 (8')	EPA 3546	76379	EPA 8015B	76478
7566062015	BH#5 (9')	EPA 3546	76379	EPA 8015B	76478
7566062016	BH#5 (19')	EPA 3546	76379	EPA 8015B	76478
7566062001	BH#1 (15')	EPA 3546	76423	EPA 8015B Modified	76479
7566062002	BH#1 (20')	EPA 3546	76423	EPA 8015B Modified	76479
7566062004	BH#1 (35')	EPA 3546	76423	EPA 8015B Modified	76479
7566062005	BH#2 (2')	EPA 3546	76423	EPA 8015B Modified	76479
7566062006	BH#2 (4')	EPA 3546	76423	EPA 8015B Modified	76479
7566062007	BH#2 (14')	EPA 3546	76423	EPA 8015B Modified	76479
7566062008	BH#3 (9')	EPA 3546	76423	EPA 8015B Modified	76479
7566062009	BH#3 (17')	EPA 3546	76423	EPA 8015B Modified	76479
7566062010	BH#3 (27')	EPA 3546	76423	EPA 8015B Modified	76479
7566062011	BH#4 (7')	EPA 3546	76423	EPA 8015B Modified	76479
7566062012	BH#4 (12')	EPA 3546	76423	EPA 8015B Modified	76479
7566062013	BH#4 (22')	EPA 3546	76423	EPA 8015B Modified	76479
7566062014	BH#5 (8')	EPA 3546	76423	EPA 8015B Modified	76479
7566062015	BH#5 (9')	EPA 3546	76423	EPA 8015B Modified	76479
7566062016	BH#5 (19')	EPA 3546	76423	EPA 8015B Modified	76479
7566062001	BH#1 (15')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062002	BH#1 (20')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062004	BH#1 (35')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062005	BH#2 (2')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062006	BH#2 (4')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062007	BH#2 (14')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062008	BH#3 (9')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062009	BH#3 (17')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062010	BH#3 (27')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062011	BH#4 (7')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062012	BH#4 (12')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062013	BH#4 (22')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566062014	BH#5 (8')	EPA 5035A/5030B	478454	EPA 8015B	478604
7566062015	BH#5 (9')	EPA 5035A/5030B	478454	EPA 8015B	478604
7566062016	BH#5 (19')	EPA 5035A/5030B	478454	EPA 8015B	478604
7566062001	BH#1 (15')	EPA 5030 Low	76173	EPA 8260	76183
7566062002	BH#1 (20')	EPA 5030 Low	76173	EPA 8260	76183

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

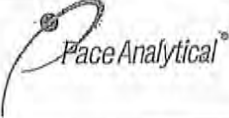
Project: 212C-MD-00847/Philmex #6 Soil

Pace Project No.: 7566062

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7566062004	BH#1 (35')	EPA 5030 Low	76173	EPA 8260	76183
7566062005	BH#2 (2')	EPA 5030 Low	76173	EPA 8260	76183
7566062006	BH#2 (4')	EPA 5030 Low	76173	EPA 8260	76183
7566062007	BH#2 (14')	EPA 5030 Low	76173	EPA 8260	76183
7566062008	BH#3 (9')	EPA 5030 Low	76173	EPA 8260	76183
7566062009	BH#3 (17')	EPA 5030 Low	76173	EPA 8260	76183
7566062010	BH#3 (27')	EPA 5030 Low	76173	EPA 8260	76183
7566062011	BH#4 (7')	EPA 5030 Low	76173	EPA 8260	76183
7566062012	BH#4 (12')	EPA 5030 Low	76173	EPA 8260	76183
7566062013	BH#4 (22')	EPA 5030 Low	76173	EPA 8260	76183
7566062014	BH#5 (8')	EPA 5030 Low	76173	EPA 8260	76183
7566062015	BH#5 (9')	EPA 5030 Low	76173	EPA 8260	76183
7566062016	BH#5 (19')	EPA 5030 Low	76173	EPA 8260	76183
7566062001	BH#1 (15')	ASTM D2974-07	76335		
7566062002	BH#1 (20')	ASTM D2974-07	76335		
7566062004	BH#1 (35')	ASTM D2974-07	76335		
7566062005	BH#2 (2')	ASTM D2974-07	76335		
7566062006	BH#2 (4')	ASTM D2974-07	76335		
7566062007	BH#2 (14')	ASTM D2974-07	76335		
7566062008	BH#3 (9')	ASTM D2974-07	76335		
7566062009	BH#3 (17')	ASTM D2974-07	76335		
7566062010	BH#3 (27')	ASTM D2974-07	76335		
7566062011	BH#4 (7')	ASTM D2974-07	76335		
7566062012	BH#4 (12')	ASTM D2974-07	76335		
7566062013	BH#4 (22')	ASTM D2974-07	76335		
7566062014	BH#5 (8')	ASTM D2974-07	76335		
7566062015	BH#5 (9')	ASTM D2974-07	76335		
7566062016	BH#5 (19')	ASTM D2974-07	76355		
7566062001	BH#1 (15')	EPA 300.0	76364	EPA 300.0	76390
7566062002	BH#1 (20')	EPA 300.0	76364	EPA 300.0	76390
7566062004	BH#1 (35')	EPA 300.0	76364	EPA 300.0	76390
7566062005	BH#2 (2')	EPA 300.0	76364	EPA 300.0	76390
7566062006	BH#2 (4')	EPA 300.0	76364	EPA 300.0	76390
7566062007	BH#2 (14')	EPA 300.0	76364	EPA 300.0	76390
7566062008	BH#3 (9')	EPA 300.0	76364	EPA 300.0	76390
7566062009	BH#3 (17')	EPA 300.0	76362	EPA 300.0	76385
7566062010	BH#3 (27')	EPA 300.0	76362	EPA 300.0	76385
7566062011	BH#4 (7')	EPA 300.0	76362	EPA 300.0	76385
7566062012	BH#4 (12')	EPA 300.0	76362	EPA 300.0	76385
7566062013	BH#4 (22')	EPA 300.0	76362	EPA 300.0	76385
7566062014	BH#5 (8')	EPA 300.0	76362	EPA 300.0	76385
7566062015	BH#5 (9')	EPA 300.0	76362	EPA 300.0	76385
7566062016	BH#5 (19')	EPA 300.0	76362	EPA 300.0	76385

REPORT OF LABORATORY ANALYSIS

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	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

Client Name: Tetratex Project Work order:

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

Tracking#: 7341 3075 8502

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

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☒ *trash bag*

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

Cooler Temp °C: 4.0 (Recorded) -0.5 (Correction Factor) 3.5 (Actual) Temp should be above freezing to 6°C

WO#: 7566062



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	Yes ☐ No ☐ NA ☐	9
Pace Container used	Yes ☒ No ☐ NA ☐	
Container Intact	Yes ☒ No ☐ NA ☐	10 <i>except BH#1 (25') Broken upon arrival</i>
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	Yes ☒ No ☐ NA ☐	13
Include date/time/ID/analyses Matrix: <u>SDWD</u>		
All containers needing preservation have been checked	Yes ☐ No ☐ NA ☒	14a. Lot# of pH strip: _____ Original pH: <0 or >0 20 90 120 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<20 pH>90 pH>120
All containers needing preservation are found to be in Compliance with EPA recommendation	Yes ☐ No ☐ NA ☒	14c.
Exception: VOA, coliform, O&G	Yes ☐ No ☒	
Are soil samples (volatiles) received in Bulk ☒ Terracore ☐ EnCore ☐ NA ☐		15.
Trip Blank present	Yes ☐ No ☐ NA ☒	16.
Trip Blank Custody Seals Intact	Yes ☐ No ☐ NA ☒	
Pace Trip Blank Lot# (if purchased):		
Headspace in VOA (>6mm)	Yes ☐ No ☐ NA ☒	17.
Project sampled in USDA Regulated Area:	Yes ☐ No ☐ NA ☒	18. List State _____

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____

Comments/Resolution: _____

Person Examining Contents: DT Date: 7/27/17 Project Manager Review: Alex Sanders

Analysis Request of Chain of Custody Record



TETRA TECH

1910 N. Big Spring St.
Midland, Texas 79705
(432) 682-4559 • Fax (432) 682-3946

CLIENT NAME: Conoco Phillips SITE MANAGER: Greg Pope

PROJECT NO.: 212C-MB-00847 PROJECT NAME: PhilMex #4 Soil Boring Asses.

LAB I.D. NUMBER: 5-1H7 DATE: 5-11-17 TIME: 12:00

GRAB: X COMP: 1 MATRIX: 1

SAMPLE IDENTIFICATION: BH #4 (7')

NUMBER OF CONTAINERS	PRELIMINARY METHOD	DATE	TIME	LAB I.D. NUMBER
1	HCL	5/11/17	12:00	BH #4 (7')
1	HNO3	5/11/17	12:00	BH #4 (12')
1	ICE	5/11/17	12:00	BH #4 (22')
1	NONE	5/11/17	12:00	BH #5 (8')
1		5/11/17	12:00	BH #5 (9')
1		5/11/17	12:00	BH #5 (19')

RELINQUISHED BY: (Signature) Patricia Palmer Date: 5/11/17 Time: 0400

RECEIVED BY: (Signature) Greg Pope Date: 5/11/17 Time: 0400

RELINQUISHED BY: (Signature) Patricia Palmer Date: 5/11/17 Time: 0400

RECEIVED BY: (Signature) Greg Pope Date: 5/11/17 Time: 0400

RELINQUISHED BY: (Signature) Patricia Palmer Date: 5/11/17 Time: 0400

RECEIVED BY: (Signature) Greg Pope Date: 5/11/17 Time: 0400

RECEIVING LABORATORY: Alton Pace ADDRESS: Alton Pace CITY: Alton STATE: TX ZIP: 79401 PHONE: 409-336-3535

REMARKS: 35°

ANALYSIS REQUEST (Circle or Specify Method No.)	DATE	TIME	LAB I.D. NUMBER	DATE	TIME	LAB I.D. NUMBER
TPH 8015 MOD. TX1005 (Ext. to C35)						
BTEX 8021B						
PAH 8270						
RCRA Metals Ag As Ba Cd Cr Pb Hg Se						
TCLP Metals Ag As Ba Cd Cr Pb Hg Se						
TCLP Volatiles						
TCLP Semi Volatiles						
RCI						
GC/MS Vol. 8240/8260/624						
GC/MS Semi. Vol. 8270/625						
PCBs 8080/608						
Pest. 808/608						
Chloride						
Gamma Spec.						
Alpha Beta (Air)						
PLM (Asbestos)						
Major Anions/Cations, pH, TDS						