SITE INFORMATION

Report Type: Closure Report RP Nos. 1356 and 1373

General Site Information:						
Site:	**Lockhart B-28 #6**					
Company:	**ConocoPhillips**					
Section, Township and Range		**Sec. 28**	**T 21S**	**R 36E**		
Lease Number:	**API No. 30-025-04814**					
County:	**Lea**					
Release GPS:	**32.44710º N**			**103.26709º W**		
Surface Owner:	Private					
Mineral Owner:						
Directions:	From intersection of Main Street and Avenue O (FM176) in Eunice, travel west on Avenue O (FM176) for 7.45 mi, turn south (left) onto lease road. Travel south for 1.15 mi, turn east (left) onto lease road for 0.62 mi to location.					

Release Data:	
Date Released:	7/17/2004 (RP#1356 / 11/26/2006 (RP#1373)
Type Release:	Produced Water / Oil and Produced Water
Source of Contamination:	Unknown diameter flow line / 3"-diameter flow line
Fluid Released:	22 bbls / 18 bbls
Fluids Recovered:	15 bbls / 10 bbls

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	
>100 ft.	***0***	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:	***0***	

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

TETRA TECH

APPROVED
By Olivia Yu at 11:59 am, Apr 06, 2018

December 22, 2017

NMOCD grants closure to 1RP-1356 & 1RP-1373.

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

RE: Closure Report - ConocoPhillips, Lockhart B-28 #6, Section 28, Township 21S, Range 36E, Lea County, New Mexico, RP Nos. 1356 and 1373

Ms. Yu:

On behalf of ConocoPhillips (COP), Tetra Tech submits the following Closure Report for the Lockhart B-28 #6 (site) located in Section 28, Township 21 South, Range 36 East, Lea County, New Mexico, approximately 5.75 miles west-northwest of the town of Eunice. Eunice is located approximately 17 miles south-southwest of Hobbs in southeastern Lea County. The spill site coordinates are N 32.44710º, W 103.26709º. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report for RP#1356, the leak was discovered on July 17, 2004, and released twenty-two (22) barrels of produced water due to a failed flowline. Emergency response action included recovering free standing fluids with a vacuum truck. As a result, approximately two (2) barrels of oil and thirteen (13) barrels of produced water were recovered, leaving approximately seven (7) barrels unrecovered. The release impacted approximately 100' x 12' of adjacent pasture north of the site. The impacted area of the pad measured approximately 30' x 72'.

The C-141 Report for RP#1373 details a leak from a 3" flowline resulting in the accidental discharge of one (1) barrel of oil and seventeen (17) barrels of produced water discovered on November 30, 2006. Emergency response action included recovering free standing fluids with a vacuum truck. As a result, approximately ten (10) barrels of produced water were recovered, leaving one (1) barrel of oil and seven (7) barrels of produced water unrecovered. The release impacted approximately 39' x 69' of adjacent pasture, which is located north of the facility. The impacted area of the pad measured approximately 39' x 78'. Both C-141 forms are included in Appendix A.

Groundwater

According to New Mexico Office of State Engineer's (NMOSE) Water Rights Reporting System, no water wells are located within Section 28, Township 21 South (T21S), Range 36 East (R36E). However, thirty-one (31) water wells are located in T21S, R36E

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

surrounding the site. Of these wells, the shallowest depth to water was reported at 125' below ground surface, and the average depth to water, for those wells with water data available, was reported at 417' below surface. The NMOSE groundwater data is presented in Appendix B. Also included in Appendix B is a list of United States Geological Survey (USGS) wells for T21S, R36E and those adjacent in Lea County. The USGS wells to the north and east of the site have shallower depths to groundwater, but these wells are located more than 5 miles from the site. The closest water well to the site is a USGS well located in Section 33 to the south with a recorded depth to groundwater level of 204 feet below ground surface.

According to *40-Year Water Development Plan, Lea County, New Mexico* (John Shomaker & Associates, Inc., July 2009), the Tertiary-age Ogallala aquifer is the main source of water in Lea County and adjoining west Texas. The Ogallala consists of interbedded layers of fine- to medium-grained sand and gravel overlain by caliche. Depth to water in this unconfined aquifer ranges from 20 to 30 feet in northern Lea County to approximately 200 to 250 feet in the west-central portion and 180 to 200 feet in select areas of the central and east-central portion of the basin. Groundwater flow is to the southeast.

According to a topographic map and aerial photograph review, there are no downgradient surface water bodies within one mile of the site.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Energy, Minerals, and Natural Resources Department (NMEMNRD), Oil Conservation Division (OCD) *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 total xylene). Based upon the depth to groundwater in the site vicinity, the proposed RRAL for TPH is 5,000 mg/kg. The OCD chloride target level for this site is 600 mg/kg since groundwater is present at depths greater than 100 feet below grade.

Surface Soil Investigation

On March 30, 2017, Mr. Justin Wright from ConocoPhillips conducted surface soil sampling at eight (8) select locations to the northwest, north, and northeast of the release areas, both on the pad and in the adjacent pasture to the northwest, north, and northeast. The locations of the surface soil samples correspond with the locations of boreholes BH-1 through BH-8 shown on Figure 3. Soil samples were collected at ground surface and at 1' foot below grade at each location for a total of sixteen (16) soil samples. The samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for analysis of TPH gasoline range organics (GRO) and diesel range organics (DRO), BTEX, and chloride.

The soil sampling results are summarized in Table 1, and a copy of the laboratory analytical report and chain-of-custody document is included in Appendix C. BTEX and TPH GRO were not reported above laboratory detection limits. TPH DRO was only detected in

Sample #2-1' at 582 mg/kg. Chloride concentrations were detected in all samples ranging from 16 mg/kg (#2, GS), (#4, GS) and (#5, 1') to 176 mg/kg (#8, 1'). All of the laboratory analytical results were below the Site RRAL.

Subsurface Soil Investigation

On May 10, 2017, Tetra Tech personnel and their subcontractor were onsite to advance twelve (12) boreholes (BH-1 through BH-12, Figure 3) to approximately five (5) feet below ground surface to assess and define the extent of chloride and TPH in the soils. The borehole placements were selected based on the location of on-site equipment and the multiple subsurface lines in the area. Boreholes BH-1 through BH-8 corresponded to the locations of the March 2017 surface soil samples and assessed the defined release areas. Boreholes BH-9 through BH-12 were advanced around the perimeter of the release areas in all directions. Photographic documentation of the soil boring activities are included in the Photos section.

The boreholes were advanced using an air rotary drill rig and soil samples were collected using split-spoon samplers. Soil was screened in the field for volatile organic compounds (VOCs) using a photoionization detector (PID) and for chloride using an Extech Instruments ExStik II to field screen for salinity as well as a LaMotte field chloride titration kit. Field screening data is present on Table 2.

Two soil samples were collected from each borehole location: one from ground surface to 1' below grade and one from 4' to 5' feet below grade at total depth. The select samples were analyzed for TPH GRO, TPH DRO, and TPH Oil Range Organics (ORO) by EPA method 8015B modified, BTEX by EPA Method 8260, and chloride by EPA method 300.0. The site lithology consisted of reddish-brown clayey sand to total depth of the borings. The NMOSE Well Record & Logs, including the site lithology, are included in Appendix D.

The soil analytical results are summarized in Table 2, and a copy of the laboratory analytical report and chain-of-custody document is included in Appendix C. BTEX was not reported above laboratory detection limits. Detected concentrations of TPH GRO ranged from 11.1 mg/kg (BH-8, 0-1') to 68.0 mg/kg (BH-1, 0-1'). BH-1 is located on the pad to the west of the release points. The detected concentrations of TPH DRO ranged from 10.9 mg/kg (BH-8, 4-5') to 74.9 mg/kg (BH-10, 4-5'), and TPH ORO detected concentrations ranged from 5.7 mg/kg (BH-10, 0-1') to 159 mg/kg (BH-10, 4-5'). Chloride concentrations were detected in all samples ranging from 3.1 mg/kg (BH-9, 0-1') to 469 mg/kg (BH-10, 4-5'). All of the laboratory analytical results were below the Site RRAL.

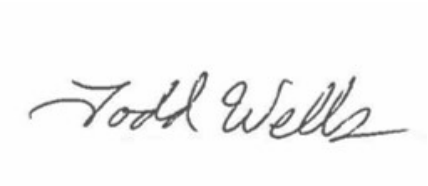
TETRA TECH

Conclusion

Based on the surface and subsurface soil assessments conducted in March 2017 and May 2017, COP requests closure and no further action at this Site. If you have any questions or comments concerning the remediation activities for this site, please call us at (432) 682-8134.

Sincerely,
Tetra Tech, Inc.

Reviewed By:



Todd Wells
Project Manager

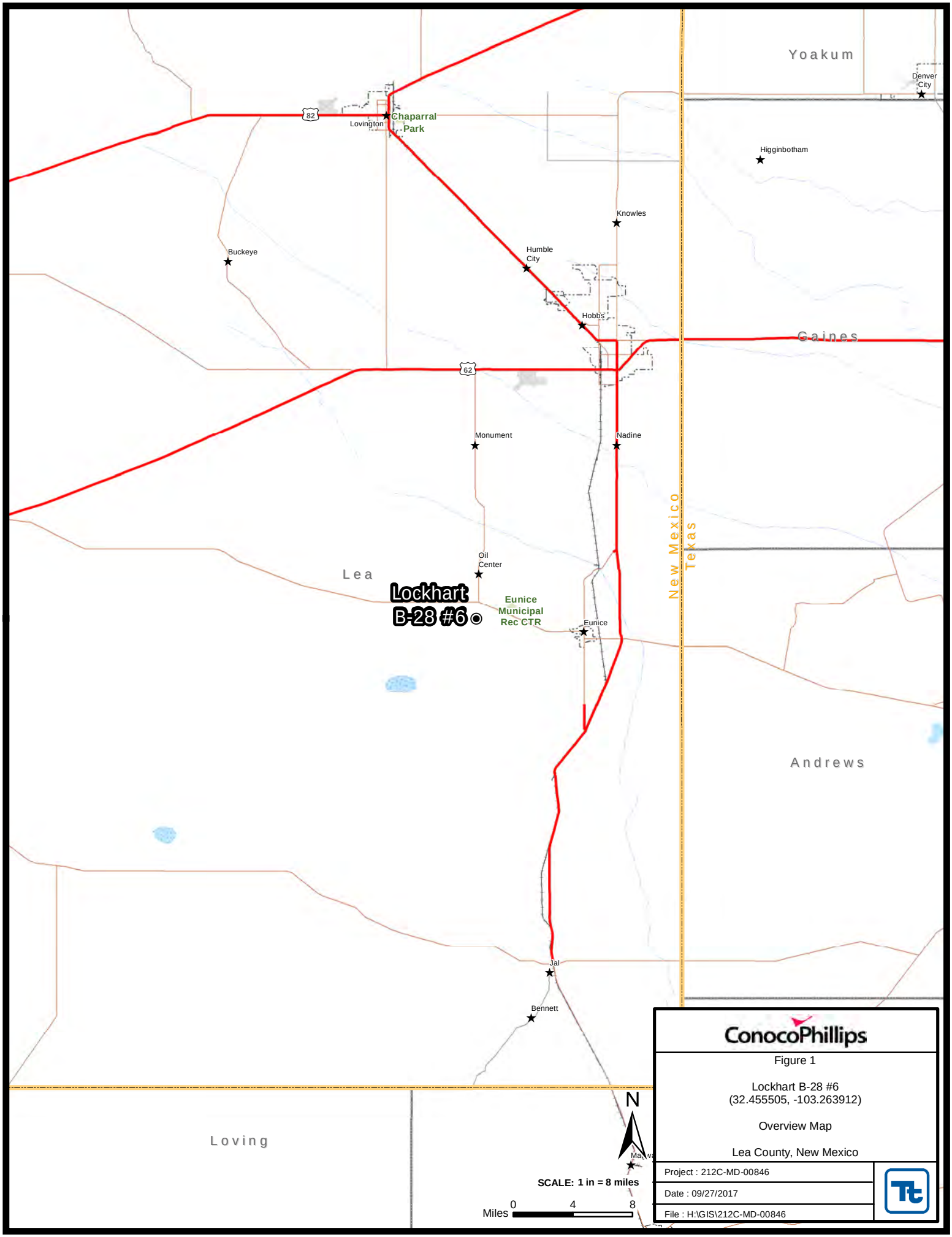
Greg W. Pope, P.G.
Senior Project Manager

cc: Neal Goates – COP

Attachments:

Figure 1 – Overview Map
Figure 2 – Topographic Map
Figure 3 – Spill Assessment Map
Table 1 – Summary of Surface Soil Sampling Analysis
Table 2 – Summary of Soil Boring Assessment Analysis
Photos – Documentation of Soil Boring Activities
Appendix A – NMOCD C-141 Forms
Appendix B – NMOSE Groundwater Data
Appendix C – Laboratory Analytical Data
Appendix D – NMOSE Well Record & Logs

Figures



ConocoPhillips

Figure 1

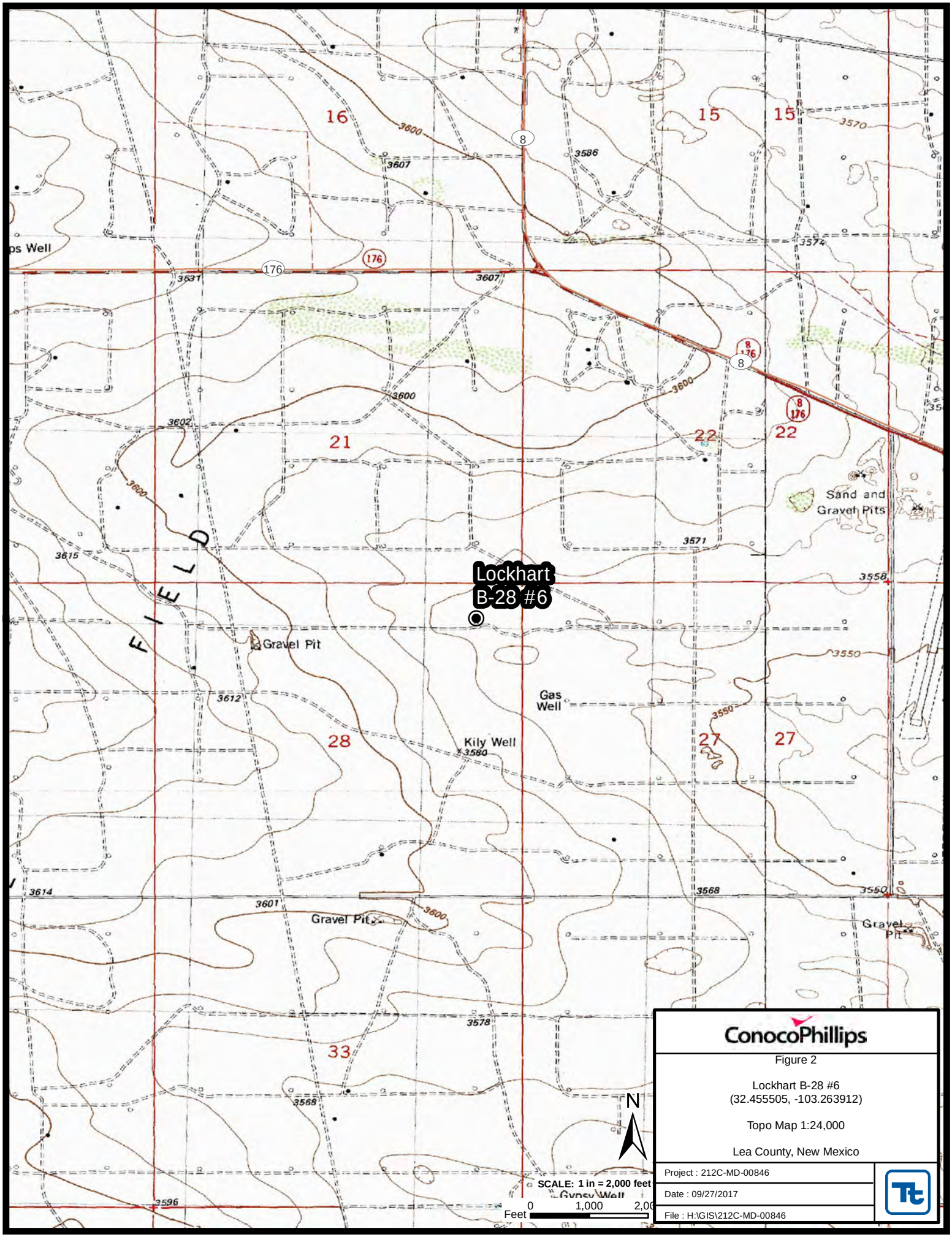
Lockhart B-28 #6
(32.455505, -103.263912)

Overview Map

Lea County, New Mexico

Project : 212C-MD-00846	
Date : 09/27/2017	
File : H:\GIS\212C-MD-00846	

Mapped By: Isabel Marmolejo



ConocoPhillips

Figure 2

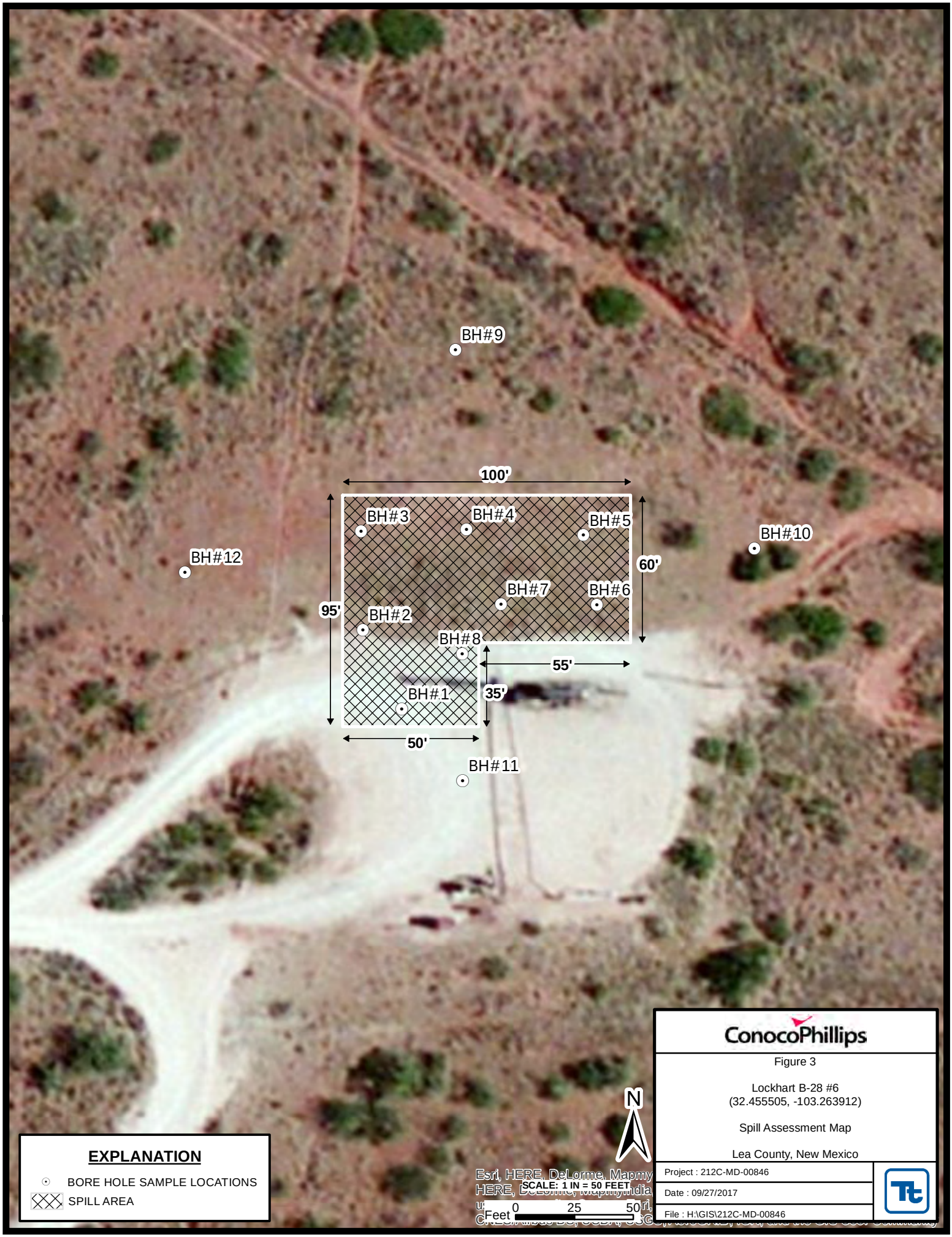
Lockhart B-28 #6
(32.455505, -103.263912)

Topo Map 1:24,000

Lea County, New Mexico

Project : 212C-MD-00846	
Date : 09/27/2017	
File : H:\GIS\212C-MD-00846	

Mapped By: Isabel Marmolejo



Mapped By: Isabel Marmolejo

Tables

Table 1
ConocoPhillips
Surface Soil Sampling
Lockhart B-28 #6
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (feet)	Laboratory Data						
			Chloride (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
#1 Surface	03/30/17	GS	96	<10	<10	<0.050	<0.050	<0.050	<0.150
#1 - 1'	03/30/17	1	32	<10	<10	<0.050	<0.050	<0.050	<0.150
#2 Surface	03/30/17	GS	16	<10	<10	<0.050	<0.050	<0.050	<0.150
#2 - 1'	03/30/17	1	64	<10	582	<0.050	<0.050	<0.050	<0.150
#3 Surface	03/30/17	GS	32	<10	<10	<0.050	<0.050	<0.050	<0.150
#3 - 1'	03/30/17	1	32	<10	<10	<0.050	<0.050	<0.050	<0.150
#4 Surface	03/30/17	GS	16	<10	<10	<0.050	<0.050	<0.050	<0.150
#4 - 1'	03/30/17	1	32	<10	<10	<0.050	<0.050	<0.050	<0.150
#5 Surface	03/30/17	GS	32	<10	<10	<0.050	<0.050	<0.050	<0.150
#5 - 1'	03/30/17	1	16	<10	<10	<0.050	<0.050	<0.050	<0.150
#6 Surface	03/30/17	GS	48	<10	<10	<0.050	<0.050	<0.050	<0.150
#6 - 1'	03/30/17	1	32	<10	<10	<0.050	<0.050	<0.050	<0.150
#7 Surface	03/30/17	GS	32	<10	<10	<0.050	<0.050	<0.050	<0.150
#7 - 1'	03/30/17	1	48	<10	<10	<0.050	<0.050	<0.050	<0.150
#8 Surface	03/30/17	GS	112	<10	<10	<0.050	<0.050	<0.050	<0.150
#8 - 1'	03/30/17	1	176	<10	<10	<0.050	<0.050	<0.050	<0.150

Notes:
GS - ground surface
mg/kg - milligrams per kilogram
TPH GRO - total petroleum hydrocarbons gasoline range organics
TPH DRO - total petroleum hydrocarbons desiel range organics

Table 2
ConocoPhillips
Soil Boring Assessment
Lockhart B-28 #6
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Field Data			Laboratory Data							
			PID (PPM)	ExStick (PPM)	Chloride (PPM)	Chloride (mg/kg)	TPH GRO mg/kg	TPH DRO mg/kg	TPH ORO mg/kg	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
BH-1	05/10/17	0-1	1.5	243	200	129	68.0	<6.1	<6.1	<0.0025	<0.0025	<0.0025	<0.0074
	"	4-5	2.1	465	280	281	17.6	<5.5	<5.5	<0.0022	<0.0022	<0.0022	<0.0067
BH-2	05/10/17	0-1	233	36.2	100	10.0	<12.0	<11.8	<11.8	<0.0024	<0.0024	<0.0024	<0.0072
	"	4-5	200	264	200	41.9	<10.7	<5.3	<5.3	<0.0022	<0.0022	<0.0022	<0.0065
BH-3	05/10/17	0-1	40.2	28.1	40	11.5	<12.5	<6.2	<6.2	<0.0025	<0.0025	<0.0025	<0.0075
	"	4-5	64.8	62.8	60	6.4	<10.6	<5.3	<5.3	<0.0022	<0.0022	<0.0022	<0.0065
BH-4	05/10/17	0-1	102	26.8	20	7.8	<11.9	<5.9	<5.9	<0.0024	<0.0024	<0.0024	<0.0072
	"	4-5	299	329	200	7.1	<10.9	<5.4	6.5	<0.0022	<0.0022	<0.0022	<0.0066
BH-5	05/10/17	0-1	1280	63.4	40	13.5	<12.5	<6.2	<6.2	<0.0025	<0.0025	<0.0025	<0.0075
	"	4-5	155	396	180	27.9	<10.6	<5.2	<5.2	<0.0021	<0.0021	<0.0021	<0.0064
BH-6	05/10/17	0-1	167	37.4	80	4.1	<10.2	<25.2	36.4	<0.0021	<0.0021	<0.0021	<0.0062
	"	4-5	194	252	200	94.0	<12.3	<6.1	<6.1	<0.0025	<0.0025	<0.0025	<0.0074
BH-7	05/10/17	0-1	450	36.5	100	5.4	<10.3	<10.1	13.5	<0.0020	<0.0020	<0.0020	<0.0061
	"	4-5	130	477	240	60.4	56.7	<5.4	<5.4	<0.0022	<0.0022	<0.0022	<0.0067
BH-8	05/10/17	0-1	107	163	120	136	11.1	<26.7	46.1	<0.0022	<0.0022	<0.0022	<0.0065
	"	4-5	129	322	160	121	14.8	10.9	20.4	<0.0022	<0.0022	<0.0022	<0.0066
BH-9	05/10/17	0-1	91.1	18.4	30	3.1	<10	11.1	18.6	<0.0020	<0.0020	<0.0020	<0.0061
	"	4-5	69.9	52.8	40	3.8	<10.6	<5.3	<5.3	<0.0021	<0.0021	<0.0021	<0.0064

Table 2
ConocoPhillips
Soil Boring Assessment
Lockhart B-28 #6
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Field Data			Laboratory Data							
			PID (PPM)	ExStick (PPM)	Chloride (PPM)	Chloride (mg/kg)	TPH GRO mg/kg	TPH DRO mg/kg	TPH ORO mg/kg	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
BH-10	05/10/17	0-1	122	41.2	30	3.9	10.1	<5.0	5.7	<0.0021	<0.0021	<0.0021	<0.0062
	"	4-5	235	750	410	469	<11.0	74.9	159	<0.0022	<0.0022	<0.0022	<0.0066
BH-11	05/10/17	0-1	0.1	121	80	15.9	<10.7	<5.3	<5.3	<0.0022	<0.0022	<0.0022	<0.0065
	"	4-5	1.5	99	200	217	<11.3	<5.6	<5.6	<0.0023	<0.0023	<0.0023	<0.0068
BH-12	05/10/17	0-1	30	34.8	40	4.6	<10.5	<5.2	<5.2	<0.0021	<0.0021	<0.0021	<0.0064
	"	4-5	38.1	34.4	40	4.7	<10.7	<5.3	<5.3	<0.0022	<0.0022	<0.0022	<0.0065

Photos

ConocoPhillips.
Lockhart B-28 #6
Lea County, New Mexico

View East – Lockhart B-28 #6

View North – Area of BH-9

May 10, 2017

ConocoPhillips.
Lockhart B-28 #6
Lea County, New Mexico

View Southwest – Area of BH-7

View Southwest – Area of BH-8

May 10, 2017

ConocoPhillips.
Lockhart B-28 #6
Lea County, New Mexico

View Southeast – Area of BH-11

View N/A – Site lithology

May 10, 2017

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	Contact John Abney
Address 1410 N. West County Rd. Hobbs NM. 88240	Telephone No. (505)391-3128
Facility Name Lockhart B - 28 Well #6	Facility Type Oil Well

Surface Owner BLM	Mineral Owner BLM	Lease No. NM-90162

LOCATION OF RELEASE 30025048140000

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	28	21S	36E	1650	South	1650	East	Lea

Latitude_____ **Longitude**_____

NATURE OF RELEASE

Type of Release Oil and Produced water	Volume of Release 22 bbls	Volume Recovered 15 bbls
Source of Release Flowline	Date and Hour of Occurrence 7/17/04 [illegible]	Date and Hour of Discovery 7/17/04 8a
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour NA	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
Flowline ruptured due to extremely low night time tempratures.

RECEIVED
Hobbs OCD

Describe Area Affected and Cleanup Action Taken.*
Area affected was 30' X 72' of well pad and 100' X 12' area of pasture land. A vacuum truck was called to pickup the free liquids. We recovered 2 bbl of oil and 13 bbls of water. A backhoe was used to back drag the well pad and spread snad over the contaminated area of pasture due to cattle in the area. The site will be delineated to determine the necessary remediation action.

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: John Abney	OIL CONSERVATION DIVISION
Printed Name: John Abney	Approved by District Supervisor: Chris Williams
Title: SHEAR Specialist	Approval Date: 5/21/07 Expiration Date: 6/21/07
E-mail Address: John.H.Abney@conocophillips.com	Conditions of Approval: Need final report. Attached ☐
Date: 01/31/2005 Phone: (505)391-3128	

* Attach Additional Sheets If Necessary

pPAC0714350229

RP# 1356

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 **Jesse A. Sosa**
Address **3300 North A St., Bldg. 6, Midland, TX 79705-5406**	Telephone No. **505.391.3126**
Facility Name **Lockhart B28 # 6**	Facility Type **Oil and Gas**

Surface Owner **BLM**	Mineral Owner **BLM**	Lease No **NM90162**

LOCATION OF RELEASE

API#3002504814 0000

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**28**	**21S**	**36E**	**660**	**North**	**660**	**East**	**Lea**

Latitude **Longitude**

NATURE OF RELEASE

Type of Release **Oil And Produced Water**	Volume of Release **18bbl (1oil, 17water)**	Volume Recovered **(0oil, 10water)**
Source of Release **3" Poly flowline**	Date and Hour of Occurrence **11/30/2006 7:00 am**	Date and Hour of Discovery **11/30/2006 9:00 am**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **NMOCD-Pat Caperton (voicemail) BLM-Trisha Bad Bear (voicemail)**	
By Whom? **Jesse Sosa**	Date and Hour **12/08/2006 3:00 pm**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

Received DEC 2006 Hobbs OCD

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
There was an accidental discharge of 1 BO and 17 BPW from a 3" poly flowline due to freezing temperatures during normal operations. The fluid was not contained. There was 10 BPW recovered.

Describe Area Affected and Cleanup Action Taken.*
Affected area of 39' X 69' was on pasture and area of 78' X 39' was on caliche pad. There was no livestock present. Area will be 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: **Jesse A. Sosa**	Approved by District ~~Supervisor~~ ENVIRENGR
Title: **HSER Lead**	Approval Date: 5-25-07 Expiration Date: 8-25-07
E-mail Address: **Jesse.A.Sosa@conocophillips.com**	Conditions of Approval: SUBMIT FINAL C-141 BY Attached ☐
Date: **12/08/2006** Phone: **505.391.3126**	

- Attach Additional Sheets If Necessary

incident - nPAC0714546403 W/ DOCUMENTATION
application - pPAC0714546542

RP# 1373

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COP - Lockhart B-28 #6
Lea County, New Mexico

20 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

20 South 36 East

6	5	4	3	2	1
7	8	9	10 37	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

20 South 37 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16 17	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35 52	36

21 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

21 South 36 East

6	5 1128	4 1218	3	2	1
7	8 1000	9 1050	10 195	11	12
18 235	17 246	16 195	15	14	13 148
19	20	21	22	23 128	24
30 240	29	28	27	26	25 148
31	32	33 204	34	35	36

21 South 37 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22 46	23	24
30	29	28	27	26	25
31	32	33	34	35	36

22 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

22 South 36 East

6	5	4	3	2	1
7	8	9	10	11	12 120
18	17	16 175	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

22 South 37 East

6	5 72	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 60	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Water Rights Reporting System (http://nmwrrs.ose.state.nm.us/nmwrrs/index.html) accessed September 26, 2

105 United States Geological Survey (USGS) Groundwater Data for the Nation (https://waterdata.usgs.gov/nwis/gw) accessed September 26, 2

2017

017

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

No records found.

PLSS Search:

Section(s): 28 **Township:** 21S **Range:** 36E

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
CP 00279 POD1	CP	LE	3	1	3	14	21S	36E	665053	3594579*	197		
CP 00280 POD1	CP	LE	2	4	2	18	21S	36E	660014	3595098*	300		
CP 00281 POD1	CP	LE	3	1	1	20	21S	36E	660236	3593696*	201		
CP 00446 POD1	CP	LE	1	4	4	13	21S	36E	667871	3594424*	185	148	37
CP 00446 POD2	CP	LE	1	4	4	13	21S	36E	667871	3594424*	200	151	49
CP 00472 POD1	CP	LE	4	4	2	23	21S	36E	666480	3593391*	200	140	60
CP 00472 POD2	CP	LE	4	4	2	23	21S	36E	666480	3593391*	200	140	60
CP 00472 POD3	CP	LE	4	3	2	23	21S	36E	666077	3593385*	200	140	60
CP 00472 POD4	CP	LE	4	3	2	23	21S	36E	666077	3593385*	200	140	60
CP 00472 POD5	CP	LE	2	3	2	23	21S	36E	666077	3593585*	200	143	57
CP 00472 POD6	CP	LE	2	2	3	23	21S	36E	665682	3593177*	200	128	72
CP 00472 POD7	CP	LE	1	4	4	23	21S	36E	666293	3592787*	205	165	40
CP 00484	CP	LE		2	4	25	21S	36E	668021	3591508*	207	148	59
CP 00505	CP	LE			2	16	21S	36E	662933	3595244*	215	195	20
CP 00539	CP	LE	4	3	2	30	21S	36E	659663	3591676*	270	240	30
CP 00664	CP	LE			2	23	21S	36E	666179	3593687*	185	150	35
CP 00670 POD1	CP	LE	1	4	4	05	21S	36E	661383	3597536*	5000	1128	3872
CP 00685 POD1	CP	LE	2	3	4	11	21S	36E	666038	3595997*	220		
CP 00690	CP	LE		4	4	03	21S	36E	664706	3597487*	340		
CP 00692	CP	LE	3	1	1	10	21S	36E	663405	3596961*	215	195	20
CP 00693 POD1	CP	LE	3	2	1	08	21S	36E	660587	3596919*	5000	1000	4000
CP 00694 POD1	CP	LE	1	3	1	04	21S	36E	661771	3598344*	5000	1218	3782
CP 00695 POD1	CP	LE	3	2	4	09	21S	36E	663015	3596153*	5000	1050	3950
CP 00696 POD1	CP	LE	1	1	3	09	21S	36E	661805	3596337*	5000	1200	3800
CP 00697 POD1	CP	LE				04	21S	36E	662488	3598048*	4900	1200	3700
CP 00734	CP	LE			1	10	21S	36E	663713	3596862*	215	200	15

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

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

POD Number	POD Sub-basin Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00760 POD1	CP	LE	1	4	4	35	21S	36E	666347	3589567*	5000		
CP 00882	CP	LE			2	23	21S	36E	666179	3593687*	195	142	53
CP 00941 POD1	CP	LE		3	2	22	21S	36E	664254	3593330	257		
CP 01448 POD1	CP	LE	4	4	4	36	21S	36E	668136	3589337	40		
CP 01485 POD1	CP	LE	4	4	3	17	21S	36E	660749	3594154	305	246	59

Average Depth to Water: **417 feet**

Minimum Depth: **128 feet**

Maximum Depth: **1218 feet**

Record Count: 31

PLSS Search:

Township: 21S **Range:** 36E

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

Agency	Site Number	Site Name	Period of Record	
			Begin Date	End Date
USGS	321948103073601	23S.37E.02.42211	1955-06-03	2016-01-05
USGS	321952103400801	23S.32E.03.311114	1976-12-09	2013-01-16
USGS	322127103102201	22S.37E.28.31243	1965-10-22	2016-01-06
USGS	322231103262601	22S.34E.23.23131	1968-06-10	2015-12-18
USGS	322245103053301	22S.38E.19.222321	1953-10-14	2016-01-05
USGS	322341103160501	22S.36E.16.21123	1968-03-19	2016-01-06
USGS	322409103133501	22S.36E.12.31112	1966-08-18	2016-01-06
USGS	322442103105701	22S.37E.05.43233	1970-12-03	2016-01-06
USGS	322556103282401	21S.34E.33.233442	1968-03-28	2015-12-18
USGS	322614103160101	21S.36E.33.21411	1953-11-12	2016-01-06
USGS	322636103115501	21S.37E.30.414434	1954-01-11	2016-01-06
USGS	322738103263701	21S.34E.23.31000	1967-02-01	2016-09-21
USGS	322804103085701	21S.37E.22.21121	1955-04-21	2016-01-07
USGS	322843103174601	21S.36E.18.24124	1965-11-30	2016-01-06
USGS	322851103365201	21S.33E.18.12314	1965-11-16	2015-12-17
USGS	323022103285301	21S.34E.04.311331	1981-03-11	2015-12-17
USGS	323025103062501	21S.38E.06.131334	1970-12-16	2016-01-07
USGS	323109103323801	20S.34E.34.43421	1972-10-02	2015-12-17
USGS	323114103130601	20S.37E.35.414234	1954-03-23	2016-01-07
USGS	323253103433701	20S.32E.24.33333	1968-05-29	2015-12-17
USGS	323355103154101	20S.37E.16.314141	1953-02-08	2016-01-07
USGS	323405103044501	20S.39E.19.122122	1964-02-10	2016-01-07
USGS	323456103204201	20S.36E.10.32114	1961-03-01	2016-02-03
USGS	323529103332501	20S.34E.04.44434	1965-11-17	2015-12-17
USGS	323534103411601	20S.33E.05.34321	1968-03-19	2015-12-17
USGS	323555103053201	20S.39E.06.13322	1966-03-07	2016-02-03
USGS	323618103145301	19S.37E.33.444411	1961-02-23	2016-02-03

Appendix C

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

April 06, 2017

JUSTIN WRIGHT

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: LOCKHART B28 #6

Enclosed are the results of analyses for samples received by the laboratory on 03/31/17 9:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Celey D. Keene

Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #1 SURFACE (H700853-01)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**96.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/31/2017	ND	219	109	200	3.41	
DRO >C10-C28	<10.0	10.0	03/31/2017	ND	215	108	200	4.08	

Surrogate: 1-Chlorooctane *96.5 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *106 %* *26.8-170*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #1 1' (H700853-02)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.9 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/31/2017	ND	219	109	200	3.41	
DRO >C10-C28	<10.0	10.0	03/31/2017	ND	215	108	200	4.08	

Surrogate: 1-Chlorooctane *114 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *123 %* *26.8-170*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #2 SURFACE (H700853-03)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.0 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *87.1 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *107 %* *26.8-170*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #2 1' (H700853-04)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.3 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**64.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	**582**	50.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *69.3 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *169 %* *26.8-170*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #3 SURFACE (H700853-05)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.1 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *88.8 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *93.5 %* *26.8-170*

Cardinal Laboratories *=Accredited Analyte

Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #3 1' (H700853-06)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.2 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *89.7 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *94.0 %* *26.8-170*

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Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #4 SURFACE (H700853-07)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.8 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *84.6 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *89.2 %* *26.8-170*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #4 1' (H700853-08)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.3 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *91.9 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *95.5 %* *26.8-170*

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CARDINAL Laboratories

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #5 SURFACE (H700853-09)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	1.94	97.1	2.00	1.79	
Toluene*	<0.050	0.050	04/04/2017	ND	1.88	93.9	2.00	1.30	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	1.91	95.3	2.00	1.34	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	5.42	90.3	6.00	1.53	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.4 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *83.4 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *86.5 %* *26.8-170*

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PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #5 1' (H700853-10)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/04/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/04/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/04/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/04/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/04/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.1 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**16.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *89.3 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *90.1 %* *26.8-170*

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CARDINAL Laboratories

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #6 SURFACE (H700853-11)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.6 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/03/2017	ND	416	104	400	3.77	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *87.6 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *88.4 %* *26.8-170*

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #6 1' (H700853-12)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.8 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/05/2017	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *92.3 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *92.2 %* *26.8-170*

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CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #7 SURFACE (H700853-13)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *97.2 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**32.0**	16.0	04/05/2017	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *79.4 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *82.1 %* *26.8-170*

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CARDINAL Laboratories

PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #7 1' (H700853-14)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *96.9 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**48.0**	16.0	04/05/2017	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *86.5 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *86.8 %* *26.8-170*

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CARDINAL Laboratories

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #8 SURFACE (H700853-15)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.5 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**112**	16.0	04/05/2017	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *78.1 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *78.8 %* *26.8-170*

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Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

Conoco Phillips - Hobbs
JUSTIN WRIGHT
P. O. BOX 325
Hobbs NM, 88240
Fax To: (575) 297-1477

Received:	03/31/2017	Sampling Date:	03/30/2017
Reported:	04/06/2017	Sampling Type:	Soil
Project Name:	LOCKHART B28 #6	Sampling Condition:	Cool & Intact
Project Number:	LOCKHART B28 #6	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: #8 1' (H700853-16)

BTEX 8021B mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/05/2017	ND	2.19	110	2.00	0.503	
Toluene*	<0.050	0.050	04/05/2017	ND	2.13	107	2.00	0.718	
Ethylbenzene*	<0.050	0.050	04/05/2017	ND	2.18	109	2.00	0.693	
Total Xylenes*	<0.150	0.150	04/05/2017	ND	6.19	103	6.00	0.676	
Total BTEX	<0.300	0.300	04/05/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID *98.6 %* *72-148*

Chloride, SM4500Cl-B mg/kg Analyzed By: AC

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	**176**	16.0	04/05/2017	ND	432	108	400	3.64	

TPH 8015M mg/kg Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/03/2017	ND	201	101	200	4.93	
DRO >C10-C28	<10.0	10.0	04/03/2017	ND	210	105	200	5.16	

Surrogate: 1-Chlorooctane *77.6 %* *25.1-158*

Surrogate: 1-Chlorooctadecane *79.1 %* *26.8-170*

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Celey D. Keene, Lab Director/Quality Manager

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Notes and Definitions

BS1	Blank spike recovery above laboratory acceptance criteria. Results for analyte potentially biased high.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Celey D. Keene, Lab Director/Quality Manager

CARDINAL LABORATORIES

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

Page____ of____

Company Name:	Conoco/Phillips
Project Manager:	Justin Wright
Address:	Justin.Wright@Conocophillips.com
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-9093 Fax #:
Project #:	Lockhart B28 #6 Project Owner:
Project Name:	Lockhart B28 #6
Project Location:	
Sampler Name:	Justin Wright

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State: Zip:	
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Chloride	TPH	B-Tex	Benzine
H700853																		
1	#1 Surface	G	1			X					X		3/30	1:30 pm	X	X	X	X
2	#1 1'	G	1			X					X		3/30	1:35 pm	X	X	X	X
3	#2 Surface	G	1			X					X		3/30	1:15 pm	X	X	X	X
4	#2 1'	G	1			X					X		3/30	1:20 pm	X	X	X	X
5	#3 Surface	G	1			X					X		3/30	1:25 pm	X	X	X	X
6	#3 1'	G	1			X					X		3/30	1:40 pm	X	X	X	X
7	#4 Surface	G	1			X					X		3/30	1:45 pm	X	X	X	X
8	#4 1'	G	1			X					X		3/30	1:47 pm	X	X	X	X
9	#5 Surface	G	1			X					X		3/30	1:57 pm	X	X	X	X
10	#5 1'	G	1			X					X		3/30	1:58	X	X	X	X

Sampler Relinquished:	Date: 3-31	Received By:	
	Time: 0941		
Relinquished By:	Date: 3-31-17	Received By:	Tamara Oldaker
	Time: 9:40		
Delivered By: (Circle One)	Temp.	Sample Condition: Cool / Intact	CHECKED BY: (Initials)
Sampler - UPS - Bus - Other:	1.9°	☑ Yes ☑ Yes / ☐ No ☐ No	D. #75

Phone Result:	☐	No	Add'l Phone #:
Fax Result:	☐	No	Add'l Fax #:
REMARKS:			

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

CARDINAL LABORATORIES

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

Page____ of____

Company Name:	ConocoPhillips
Project Manager:	Just Wright
Address:	Just.Wright@ConocoPhillips.com
City:	Hobbs State: NM Zip: 88240
Phone #:	575-631-9093 Fax #:
Project #:	Lockhart B28 #6 Project Owner:
Project Name:	Lockhart B28 #6
Project Location:	
Sampler Name:	Just Wright

BILL TO

P.O. #:	
Company:	
Attn:	
Address:	
City:	
State:	Zip:
Phone #:	
Fax #:	

ANALYSIS REQUEST

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE:	ICE / COOL	OTHER:	SAMPLING DATE	SAMPLING TIME	Chloride	TPH	B-Tex	Benzene
H700853																		
11	#6 Surface												3-30	2:00 pm				
12	#6 1'												3-30	2:02 pm				
13	#7 Surface												3-30	2:04 pm				
14	#7 1'												3-30	2:06 pm				
15	#8 Surface												3-30	2:08 pm				
16	#8 1'												3-30	2:10 pm				

Sampler Relinquished:	Date: 3-31	Received By:	
	Time: 0941		
Relinquished By:	Date: 3-31-17	Received By:	Tamara Oldaker
	Time: 9:40		

Delivered By: (Circle One)
Sampler - UPS - Bus - Other:

Temp. 1.9°

Sample Condition: Cool ☑ Yes ☐ No; Intact ☑ Yes ☐ No

CHECKED BY: (Initials) T.O. #15

Phone Result: ☐ No Add'l Phone #:
Fax Result: ☐ No Add'l Fax #:
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476.

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

May 30, 2017

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

RE: Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

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.

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

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

CERTIFICATIONS

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7566063001	**BH#1 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063002	**BH#1 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063003	**BH#2 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063004	**BH#2 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063005	**BH#3 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063006	**BH#3 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063007	**BH#4 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063008	**BH#4 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063009	**BH#5 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063010	**BH#5 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063011	**BH#6 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063012	**BH#6 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063013	**BH#7 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063014	**BH#7 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063015	**BH#8 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063016	**BH#8 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063017	**BH#9 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063018	**BH#9 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063019	**BH#10 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063020	**BH#10 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063021	**BH#11 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063022	**BH#11 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063023	**BH#12 (0-1')**	Solid	05/10/17 00:01	05/16/17 09:00
7566063024	**BH#12 (4-5')**	Solid	05/10/17 00:01	05/16/17 09:00

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7566063001	**BH#1 (0-1')**	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063002	**BH#1 (4-5')**	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
7566063003	**BH#2 (0-1')**	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063004	**BH#2 (4-5')**	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
7566063005	**BH#3 (0-1')**	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063006	**BH#3 (4-5')**	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
7566063007	**BH#4 (0-1')**	EPA 8015B	JS	2	PASI-D

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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
7566063008	**BH#4 (4-5')**	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
7566063009	**BH#5 (0-1')**	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
7566063010	**BH#5 (4-5')**	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
7566063011	**BH#6 (0-1')**	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
7566063012	**BH#6 (4-5')**	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
7566063013	**BH#7 (0-1')**	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
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SAMPLE ANALYTE COUNT

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		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
7566063014	**BH#7 (4-5')**	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
7566063015	**BH#8 (0-1')**	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
7566063016	**BH#8 (4-5')**	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
7566063017	**BH#9 (0-1')**	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
7566063018	**BH#9 (4-5')**	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
7566063019	**BH#10 (0-1')**	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K

Pace Analytical Services, LLC
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Allen, TX 75013
(972)727-1123

SAMPLE ANALYTE COUNT

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	DJF	7	PASI-D
		ASTM D2974-07	AJJ	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063020	**BH#10 (4-5')**	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	NT	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063021	**BH#11 (0-1')**	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	NT	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063022	**BH#11 (4-5')**	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	NT	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063023	**BH#12 (0-1')**	EPA 8015B	JS	2	PASI-D
		EPA 8015B Modified	JS	2	PASI-D
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	ZST	7	PASI-D
		ASTM D2974-07	NT	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D
7566063024	**BH#12 (4-5')**	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	NT	1	PASI-D
		EPA 300.0	AJJ	1	PASI-D

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ANALYTICAL RESULTS

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#1 (0-1') **Lab ID: 7566063001** Collected: 05/10/17 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	6.1	1	05/22/17 12:41	05/23/17 06:08		
Surrogates								
a-Pinene (S)	32	%.	10-87	1	05/22/17 12:41	05/23/17 06:08		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	6.1	1	05/22/17 12:41	05/23/17 06:08		N2
Surrogates								
a-Pinene (S)	42	%.	17-70	1	05/22/17 12:41	05/23/17 06:08		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**68.0**	mg/kg	12.2	1	05/23/17 00:00	05/23/17 18:24		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	05/23/17 00:00	05/23/17 18:24	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0025	1	05/17/17 15:42	05/17/17 21:46	71-43-2	
Ethylbenzene	ND	mg/kg	0.0025	1	05/17/17 15:42	05/17/17 21:46	100-41-4	
Toluene	ND	mg/kg	0.0025	1	05/17/17 15:42	05/17/17 21:46	108-88-3	
Xylene (Total)	ND	mg/kg	0.0074	1	05/17/17 15:42	05/17/17 21:46	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	70-130	1	05/17/17 15:42	05/17/17 21:46	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	70-130	1	05/17/17 15:42	05/17/17 21:46	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	05/17/17 15:42	05/17/17 21:46	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**18.7**	%		1		05/19/17 13:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**129**	mg/kg	24.6	10	05/19/17 15:15	05/21/17 00:29	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#1 (4-5') **Lab ID: 7566063002** Collected: 05/10/17 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	5.5	1	05/22/17 12:41	05/23/17 06:34		
Surrogates								
a-Pinene (S)	28	%.	10-87	1	05/22/17 12:41	05/23/17 06:34		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	5.5	1	05/22/17 12:41	05/23/17 06:34		N2
Surrogates								
a-Pinene (S)	37	%.	17-70	1	05/22/17 12:41	05/23/17 06:34		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**17.6**	mg/kg	11.2	1	05/23/17 00:00	05/23/17 18:40		
Surrogates								
4-Bromofluorobenzene (S)	90	%	64-122	1	05/23/17 00:00	05/23/17 18:40	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 22:09	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 15:42	05/17/17 22:09	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 15:42	05/17/17 22:09	108-88-3	
Xylene (Total)	ND	mg/kg	0.0067	1	05/17/17 15:42	05/17/17 22:09	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	70-130	1	05/17/17 15:42	05/17/17 22:09	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 15:42	05/17/17 22:09	460-00-4	
Toluene-d8 (S)	100	%.	70-130	1	05/17/17 15:42	05/17/17 22:09	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**10.1**	%		1		05/19/17 13:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**281**	mg/kg	22.2	10	05/19/17 15:15	05/21/17 00:46	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#2 (0-1') **Lab ID: 7566063003** Collected: 05/10/17 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	11.8	2	05/22/17 12:41	05/23/17 22:33		
Surrogates								
a-Pinene (S)	30	%.	10-87	2	05/22/17 12:41	05/23/17 22:33		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	11.8	2	05/22/17 12:41	05/23/17 22:07		D3,N2
Surrogates								
a-Pinene (S)	38	%.	17-70	2	05/22/17 12:41	05/23/17 22:07		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.0	1	05/23/17 00:00	05/23/17 18:56		
Surrogates								
4-Bromofluorobenzene (S)	89	%	64-122	1	05/23/17 00:00	05/23/17 18:56	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	05/17/17 19:31	05/18/17 02:30	71-43-2	
Ethylbenzene	ND	mg/kg	0.0024	1	05/17/17 19:31	05/18/17 02:30	100-41-4	
Toluene	ND	mg/kg	0.0024	1	05/17/17 19:31	05/18/17 02:30	108-88-3	
Xylene (Total)	ND	mg/kg	0.0072	1	05/17/17 19:31	05/18/17 02:30	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 02:30	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 02:30	460-00-4	
Toluene-d8 (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 02:30	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**16.0**	%		1		05/19/17 13:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**10.0**	mg/kg	2.4	1	05/19/17 15:15	05/21/17 13:36	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#2 (4-5') **Lab ID: 7566063004** Collected: 05/10/17 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 15:57		
Surrogates								
a-Pinene (S)	29	%.	10-87	1	05/22/17 12:41	05/23/17 15:57		
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 07:00		N2
Surrogates								
a-Pinene (S)	36	%.	17-70	1	05/22/17 12:41	05/23/17 07:00		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.7	1	05/23/17 00:00	05/23/17 19:13		
Surrogates								
4-Bromofluorobenzene (S)	82	%	64-122	1	05/23/17 00:00	05/23/17 19:13	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 19:31	05/18/17 02:54	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 02:54	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 02:54	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	05/17/17 19:31	05/18/17 02:54	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	70-130	1	05/17/17 19:31	05/18/17 02:54	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 02:54	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 02:54	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**7.2**	%		1		05/19/17 13:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**41.9**	mg/kg	2.2	1	05/19/17 15:15	05/21/17 13:54	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#3 (0-1') **Lab ID: 7566063005** Collected: 05/10/17 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	6.2	1	05/22/17 12:41	05/23/17 00:30		
Surrogates								
a-Pinene (S)	31	%.	10-87	1	05/22/17 12:41	05/23/17 00:30		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	6.2	1	05/22/17 12:41	05/23/17 00:30		N2
Surrogates								
a-Pinene (S)	40	%.	17-70	1	05/22/17 12:41	05/23/17 00:30		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.5	1	05/23/17 00:00	05/23/17 19:29		
Surrogates								
4-Bromofluorobenzene (S)	83	%	64-122	1	05/23/17 00:00	05/23/17 19:29	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 04:05	71-43-2	
Ethylbenzene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 04:05	100-41-4	
Toluene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 04:05	108-88-3	
Xylene (Total)	ND	mg/kg	0.0075	1	05/17/17 19:31	05/18/17 04:05	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	97	%.	70-130	1	05/17/17 19:31	05/18/17 04:05	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 04:05	460-00-4	
Toluene-d8 (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 04:05	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**20.2**	%		1		05/19/17 13:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**11.5**	mg/kg	2.5	1	05/19/17 15:15	05/21/17 14:11	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#3 (4-5') **Lab ID: 7566063006** Collected: 05/10/17 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 12:00	05/23/17 04:24		
Surrogates								
a-Pinene (S)	11	%.	10-87	1	05/22/17 12:00	05/23/17 04:24		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	5.3	1	05/22/17 12:00	05/23/17 12:02		N2
Surrogates								
a-Pinene (S)	15	%.	17-70	1	05/22/17 12:00	05/23/17 12:02		S2
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	05/23/17 00:00	05/23/17 19:46		
Surrogates								
4-Bromofluorobenzene (S)	93	%	64-122	1	05/23/17 00:00	05/23/17 19:46	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 19:31	05/18/17 04:29	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 04:29	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 04:29	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	05/17/17 19:31	05/18/17 04:29	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 04:29	17060-07-0	
4-Bromofluorobenzene (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 04:29	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 04:29	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.1**	%		1		05/19/17 13:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**6.4**	mg/kg	2.1	1	05/19/17 15:15	05/21/17 14:29	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#4 (0-1') **Lab ID: 7566063007** Collected: 05/10/17 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	5.9	1	05/22/17 12:00	05/23/17 03:58		
Surrogates								
a-Pinene (S)	22	%.	10-87	1	05/22/17 12:00	05/23/17 03:58		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	5.9	1	05/22/17 12:00	05/23/17 11:36		N2
Surrogates								
a-Pinene (S)	25	%.	17-70	1	05/22/17 12:00	05/23/17 11:36		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.9	1	05/23/17 00:00	05/23/17 20:03		
Surrogates								
4-Bromofluorobenzene (S)	82	%	64-122	1	05/23/17 00:00	05/23/17 20:03	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0024	1	05/17/17 19:31	05/18/17 04:53	71-43-2	
Ethylbenzene	ND	mg/kg	0.0024	1	05/17/17 19:31	05/18/17 04:53	100-41-4	
Toluene	ND	mg/kg	0.0024	1	05/17/17 19:31	05/18/17 04:53	108-88-3	
Xylene (Total)	ND	mg/kg	0.0072	1	05/17/17 19:31	05/18/17 04:53	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 04:53	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 04:53	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 04:53	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**16.3**	%		1		05/19/17 13:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**7.8**	mg/kg	2.4	1	05/19/17 15:15	05/21/17 14:47	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#4 (4-5') **Lab ID: 7566063008** Collected: 05/10/17 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	5.4	1	05/22/17 12:00	05/23/17 04:50		
Surrogates								
a-Pinene (S)	32	%.	10-87	1	05/22/17 12:00	05/23/17 04:50		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**6.5**	mg/kg	5.4	1	05/22/17 12:00	05/23/17 12:28		N2
Surrogates								
a-Pinene (S)	36	%.	17-70	1	05/22/17 12:00	05/23/17 12:28		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.9	1	05/23/17 00:00	05/23/17 20:19		
Surrogates								
4-Bromofluorobenzene (S)	91	%	64-122	1	05/23/17 00:00	05/23/17 20:19	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 19:31	05/18/17 05:17	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 05:17	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 05:17	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	05/17/17 19:31	05/18/17 05:17	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	113	%.	70-130	1	05/17/17 19:31	05/18/17 05:17	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 05:17	460-00-4	
Toluene-d8 (S)	96	%.	70-130	1	05/17/17 19:31	05/18/17 05:17	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**7.7**	%		1		05/19/17 13:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**7.1**	mg/kg	2.2	1	05/19/17 15:15	05/21/17 15:05	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
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ANALYTICAL RESULTS

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#5 (0-1') **Lab ID: 7566063009** Collected: 05/10/17 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	6.2	1	05/22/17 12:00	05/23/17 05:16		
Surrogates								
a-Pinene (S)	27	%.	10-87	1	05/22/17 12:00	05/23/17 05:16		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	6.2	1	05/22/17 12:00	05/23/17 12:54		N2
Surrogates								
a-Pinene (S)	32	%.	17-70	1	05/22/17 12:00	05/23/17 12:54		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.5	1	05/23/17 00:00	05/23/17 20:35		
Surrogates								
4-Bromofluorobenzene (S)	88	%	64-122	1	05/23/17 00:00	05/23/17 20:35	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 05:40	71-43-2	
Ethylbenzene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 05:40	100-41-4	
Toluene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 05:40	108-88-3	
Xylene (Total)	ND	mg/kg	0.0075	1	05/17/17 19:31	05/18/17 05:40	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	70-130	1	05/17/17 19:31	05/18/17 05:40	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 05:40	460-00-4	
Toluene-d8 (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 05:40	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**19.7**	%		1		05/19/17 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**13.5**	mg/kg	2.5	1	05/19/17 15:15	05/21/17 15:23	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
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ANALYTICAL RESULTS

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#5 (4-5') **Lab ID: 7566063010** Collected: 05/10/17 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 12:00	05/23/17 05:42		
Surrogates								
a-Pinene (S)	28	%.	10-87	1	05/22/17 12:00	05/23/17 05:42		
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 12:00	05/23/17 13:20		N2
Surrogates								
a-Pinene (S)	32	%.	17-70	1	05/22/17 12:00	05/23/17 13:20		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	05/23/17 00:00	05/23/17 20:52		
Surrogates								
4-Bromofluorobenzene (S)	93	%	64-122	1	05/23/17 00:00	05/23/17 20:52	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 19:31	05/18/17 06:04	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 06:04	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 06:04	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	05/17/17 19:31	05/18/17 06:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	112	%.	70-130	1	05/17/17 19:31	05/18/17 06:04	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 06:04	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	05/17/17 19:31	05/18/17 06:04	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**5.6**	%		1		05/19/17 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**27.9**	mg/kg	2.1	1	05/19/17 15:15	05/21/17 16:16	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#6 (0-1') **Lab ID: 7566063011** Collected: 05/10/17 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	25.2	5	05/22/17 12:00	05/23/17 19:55		
Surrogates								
a-Pinene (S)	33	%.	10-87	5	05/22/17 12:00	05/23/17 19:55		D3
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**36.4**	mg/kg	25.2	5	05/22/17 12:00	05/23/17 19:29		N2
Surrogates								
a-Pinene (S)	48	%.	17-70	5	05/22/17 12:00	05/23/17 19:29		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.2	1	05/23/17 00:00	05/23/17 21:40		
Surrogates								
4-Bromofluorobenzene (S)	82	%	64-122	1	05/23/17 00:00	05/23/17 21:40	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 19:31	05/18/17 06:28	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 06:28	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 06:28	108-88-3	
Xylene (Total)	ND	mg/kg	0.0062	1	05/17/17 19:31	05/18/17 06:28	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 06:28	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 06:28	460-00-4	
Toluene-d8 (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 06:28	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**1.7**	%		1		05/19/17 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**4.1**	mg/kg	2.0	1	05/19/17 15:15	05/21/17 16:34	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#6 (4-5') **Lab ID: 7566063012** Collected: 05/10/17 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	6.1	1	05/22/17 12:00	05/23/17 06:08		
Surrogates								
a-Pinene (S)	38	%.	10-87	1	05/22/17 12:00	05/23/17 06:08		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	6.1	1	05/22/17 12:00	05/23/17 13:46		N2
Surrogates								
a-Pinene (S)	43	%.	17-70	1	05/22/17 12:00	05/23/17 13:46		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.3	1	05/23/17 00:00	05/23/17 21:57		
Surrogates								
4-Bromofluorobenzene (S)	83	%	64-122	1	05/23/17 00:00	05/23/17 21:57	460-00-4	
8260 MSV UST Soil Low Level	Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low							
Benzene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 06:52	71-43-2	
Ethylbenzene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 06:52	100-41-4	
Toluene	ND	mg/kg	0.0025	1	05/17/17 19:31	05/18/17 06:52	108-88-3	
Xylene (Total)	ND	mg/kg	0.0074	1	05/17/17 19:31	05/18/17 06:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	70-130	1	05/17/17 19:31	05/18/17 06:52	17060-07-0	
4-Bromofluorobenzene (S)	98	%.	70-130	1	05/17/17 19:31	05/18/17 06:52	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 06:52	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**18.4**	%		1		05/19/17 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**94.0**	mg/kg	2.5	1	05/19/17 15:15	05/21/17 16:52	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#7 (0-1') **Lab ID: 7566063013** Collected: 05/10/17 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	10.1	2	05/22/17 12:00	05/23/17 20:48		
Surrogates								
a-Pinene (S)	24	%.	10-87	2	05/22/17 12:00	05/23/17 20:48		D3
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**13.5**	mg/kg	10.1	2	05/22/17 12:00	05/23/17 20:21		N2
Surrogates								
a-Pinene (S)	31	%.	17-70	2	05/22/17 12:00	05/23/17 20:21		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.3	1	05/23/17 00:00	05/23/17 22:13		
Surrogates								
4-Bromofluorobenzene (S)	93	%	64-122	1	05/23/17 00:00	05/23/17 22:13	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 19:31	05/18/17 17:28	71-43-2	
Ethylbenzene	ND	mg/kg	0.0020	1	05/17/17 19:31	05/18/17 17:28	100-41-4	
Toluene	ND	mg/kg	0.0020	1	05/17/17 19:31	05/18/17 17:28	108-88-3	
Xylene (Total)	ND	mg/kg	0.0061	1	05/17/17 19:31	05/18/17 17:28	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	70-130	1	05/17/17 19:31	05/18/17 17:28	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 17:28	460-00-4	
Toluene-d8 (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 17:28	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**1.9**	%		1		05/19/17 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**5.4**	mg/kg	2.0	1	05/19/17 15:24	05/21/17 18:22	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#7 (4-5') **Lab ID: 7566063014** Collected: 05/10/17 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	5.4	1	05/22/17 12:00	05/23/17 06:34		
Surrogates								
a-Pinene (S)	39	%.	10-87	1	05/22/17 12:00	05/23/17 06:34		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	5.4	1	05/22/17 12:00	05/23/17 14:12		N2
Surrogates								
a-Pinene (S)	43	%.	17-70	1	05/22/17 12:00	05/23/17 14:12		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**56.7**	mg/kg	11.1	1	05/23/17 00:00	05/23/17 22:29		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	05/23/17 00:00	05/23/17 22:29	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 19:31	05/18/17 17:52	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 17:52	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 17:52	108-88-3	
Xylene (Total)	ND	mg/kg	0.0067	1	05/17/17 19:31	05/18/17 17:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	05/17/17 19:31	05/18/17 17:52	17060-07-0	
4-Bromofluorobenzene (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 17:52	460-00-4	
Toluene-d8 (S)	98	%.	70-130	1	05/17/17 19:31	05/18/17 17:52	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**9.4**	%		1		05/19/17 13:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**60.4**	mg/kg	2.2	1	05/19/17 15:24	05/21/17 18:39	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#8 (0-1') **Lab ID: 7566063015** Collected: 05/10/17 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	26.7	5	05/22/17 12:00	05/23/17 20:21		
Surrogates								
a-Pinene (S)	33	%.	10-87	5	05/22/17 12:00	05/23/17 20:21		D3
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**46.1**	mg/kg	26.7	5	05/22/17 12:00	05/23/17 19:55		N2
Surrogates								
a-Pinene (S)	42	%.	17-70	5	05/22/17 12:00	05/23/17 19:55		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**11.1**	mg/kg	10.9	1	05/23/17 00:00	05/23/17 22:46		
Surrogates								
4-Bromofluorobenzene (S)	78	%	64-122	1	05/23/17 00:00	05/23/17 22:46	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 19:31	05/18/17 18:16	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 18:16	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 18:16	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	05/17/17 19:31	05/18/17 18:16	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 18:16	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 18:16	460-00-4	
Toluene-d8 (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 18:16	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**7.4**	%		1		05/19/17 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**136**	mg/kg	2.2	1	05/19/17 15:24	05/21/17 19:51	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#8 (4-5') **Lab ID: 7566063016** Collected: 05/10/17 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	**10.9**	mg/kg	10.8	2	05/22/17 12:00	05/23/17 21:14		
Surrogates								
a-Pinene (S)	34	%.	10-87	2	05/22/17 12:00	05/23/17 21:14		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**20.4**	mg/kg	10.8	2	05/22/17 12:00	05/23/17 20:48		N2
Surrogates								
a-Pinene (S)	41	%.	17-70	2	05/22/17 12:00	05/23/17 20:48		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	**14.8**	mg/kg	10.8	1	05/23/17 00:00	05/23/17 23:02		
Surrogates								
4-Bromofluorobenzene (S)	78	%	64-122	1	05/23/17 00:00	05/23/17 23:02	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 19:31	05/18/17 18:40	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 18:40	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 18:40	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	05/17/17 19:31	05/18/17 18:40	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%.	70-130	1	05/17/17 19:31	05/18/17 18:40	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 18:40	460-00-4	
Toluene-d8 (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 18:40	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**8.0**	%		1		05/19/17 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**121**	mg/kg	2.2	1	05/19/17 15:24	05/21/17 20:09	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#9 (0-1') **Lab ID: 7566063017** Collected: 05/10/17 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	**11.1**	mg/kg	10	2	05/22/17 12:00	05/23/17 21:40		
Surrogates								
a-Pinene (S)	19	%.	10-87	2	05/22/17 12:00	05/23/17 21:40		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**18.6**	mg/kg	10	2	05/22/17 12:00	05/23/17 21:14		N2
Surrogates								
a-Pinene (S)	23	%.	17-70	2	05/22/17 12:00	05/23/17 21:14		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10	1	05/23/17 00:00	05/23/17 23:19		
Surrogates								
4-Bromofluorobenzene (S)	92	%	64-122	1	05/23/17 00:00	05/23/17 23:19	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 19:31	05/18/17 19:04	71-43-2	
Ethylbenzene	ND	mg/kg	0.0020	1	05/17/17 19:31	05/18/17 19:04	100-41-4	
Toluene	ND	mg/kg	0.0020	1	05/17/17 19:31	05/18/17 19:04	108-88-3	
Xylene (Total)	ND	mg/kg	0.0061	1	05/17/17 19:31	05/18/17 19:04	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 19:04	17060-07-0	
4-Bromofluorobenzene (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 19:04	460-00-4	
Toluene-d8 (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 19:04	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**0.96**	%		1		05/19/17 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**3.1**	mg/kg	2.0	1	05/19/17 15:24	05/21/17 20:27	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
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ANALYTICAL RESULTS

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#9 (4-5') **Lab ID: 7566063018** Collected: 05/10/17 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 12:00	05/23/17 07:00		
Surrogates								
a-Pinene (S)	36	%.	10-87	1	05/22/17 12:00	05/23/17 07:00		
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 12:00	05/23/17 14:38		N2
Surrogates								
a-Pinene (S)	40	%.	17-70	1	05/22/17 12:00	05/23/17 14:38		
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 15:10		
Surrogates								
4-Bromofluorobenzene (S)	105	%	64-122	1	05/24/17 00:00	05/24/17 15:10	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 19:31	05/18/17 19:28	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 19:28	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 19:28	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	05/17/17 19:31	05/18/17 19:28	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	70-130	1	05/17/17 19:31	05/18/17 19:28	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 19:28	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 19:28	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.0**	%		1		05/19/17 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**3.8**	mg/kg	2.1	1	05/19/17 15:24	05/21/17 20:45	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#10 (0-1') **Lab ID: 7566063019** Collected: 05/10/17 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 12:00	05/23/17 07:26		
Surrogates								
a-Pinene (S)	35	%.	10-87	1	05/22/17 12:00	05/23/17 07:26		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**5.7**	mg/kg	5.0	1	05/22/17 12:00	05/23/17 15:04		N2
Surrogates								
a-Pinene (S)	40	%.	17-70	1	05/22/17 12:00	05/23/17 15:04		
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 16:00		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	05/24/17 00:00	05/24/17 16:00	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 19:31	05/18/17 19:51	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 19:51	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/17/17 19:31	05/18/17 19:51	108-88-3	
Xylene (Total)	ND	mg/kg	0.0062	1	05/17/17 19:31	05/18/17 19:51	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 19:51	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 19:51	460-00-4	
Toluene-d8 (S)	99	%.	70-130	1	05/17/17 19:31	05/18/17 19:51	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**1.5**	%		1		05/19/17 13:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**3.9**	mg/kg	2.0	1	05/19/17 15:24	05/21/17 21:02	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#10 (4-5') **Lab ID: 7566063020** Collected: 05/10/17 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	**74.9**	mg/kg	54.0	10	05/22/17 12:00	05/23/17 19:29		
Surrogates								
a-Pinene (S)	43	%.	10-87	10	05/22/17 12:00	05/23/17 19:29		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	**159**	mg/kg	54.0	10	05/22/17 12:00	05/23/17 19:02		N2
Surrogates								
a-Pinene (S)	59	%.	17-70	10	05/22/17 12:00	05/23/17 19:29		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.0	1	05/24/17 00:00	05/24/17 16:16		
Surrogates								
4-Bromofluorobenzene (S)	96	%	64-122	1	05/24/17 00:00	05/24/17 16:16	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 19:31	05/18/17 20:15	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 20:15	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 20:15	108-88-3	
Xylene (Total)	ND	mg/kg	0.0066	1	05/17/17 19:31	05/18/17 20:15	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	111	%.	70-130	1	05/17/17 19:31	05/18/17 20:15	17060-07-0	
4-Bromofluorobenzene (S)	100	%.	70-130	1	05/17/17 19:31	05/18/17 20:15	460-00-4	
Toluene-d8 (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 20:15	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**8.4**	%		1		05/22/17 11:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**469**	mg/kg	21.8	10	05/21/17 12:30	05/22/17 08:00	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#11 (0-1') **Lab ID: 7566063021** Collected: 05/10/17 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 12:00	05/23/17 07:26		
Surrogates								
a-Pinene (S)	28	%.	10-87	1	05/22/17 12:00	05/23/17 07:26		
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 12:00	05/23/17 07:26		N2
Surrogates								
a-Pinene (S)	37	%.	17-70	1	05/22/17 12:00	05/23/17 07:26		
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 16:33		
Surrogates								
4-Bromofluorobenzene (S)	102	%	64-122	1	05/24/17 00:00	05/24/17 16:33	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 19:31	05/18/17 20:39	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 20:39	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/17/17 19:31	05/18/17 20:39	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	05/17/17 19:31	05/18/17 20:39	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	105	%.	70-130	1	05/17/17 19:31	05/18/17 20:39	17060-07-0	
4-Bromofluorobenzene (S)	102	%.	70-130	1	05/17/17 19:31	05/18/17 20:39	460-00-4	
Toluene-d8 (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 20:39	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**7.1**	%		1		05/22/17 11:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**15.9**	mg/kg	2.2	1	05/21/17 12:30	05/21/17 21:38	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#11 (4-5') **Lab ID: 7566063022** Collected: 05/10/17 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	5.6	1	05/22/17 12:00	05/23/17 07:52		
Surrogates								
a-Pinene (S)	37	%.	10-87	1	05/22/17 12:00	05/23/17 07:52		
8015M Oil Range Organics	Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546							
Oil Range Organics	ND	mg/kg	5.6	1	05/22/17 12:00	05/23/17 15:31		N2
Surrogates								
a-Pinene (S)	41	%.	17-70	1	05/22/17 12:00	05/23/17 15:31		
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.3	1	05/24/17 00:00	05/24/17 16:49		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	05/24/17 00:00	05/24/17 16:49	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	05/17/17 19:31	05/18/17 21:03	71-43-2	
Ethylbenzene	ND	mg/kg	0.0023	1	05/17/17 19:31	05/18/17 21:03	100-41-4	
Toluene	ND	mg/kg	0.0023	1	05/17/17 19:31	05/18/17 21:03	108-88-3	
Xylene (Total)	ND	mg/kg	0.0068	1	05/17/17 19:31	05/18/17 21:03	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	70-130	1	05/17/17 19:31	05/18/17 21:03	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/17/17 19:31	05/18/17 21:03	460-00-4	
Toluene-d8 (S)	97	%.	70-130	1	05/17/17 19:31	05/18/17 21:03	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**11.5**	%		1		05/22/17 11:31		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**217**	mg/kg	22.6	10	05/21/17 12:30	05/22/17 08:18	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#12 (0-1') **Lab ID: 7566063023** Collected: 05/10/17 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 12:00	05/23/17 16:23		
Surrogates								
a-Pinene (S)	20	%.	10-87	1	05/22/17 12:00	05/23/17 16:23		
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 12:00	05/23/17 07:52		N2
Surrogates								
a-Pinene (S)	27	%.	17-70	1	05/22/17 12:00	05/23/17 16:23		
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 17:05		
Surrogates								
4-Bromofluorobenzene (S)	85	%	64-122	1	05/24/17 00:00	05/24/17 17:05	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	05/18/17 16:21	05/18/17 21:26	71-43-2	
Ethylbenzene	ND	mg/kg	0.0021	1	05/18/17 16:21	05/18/17 21:26	100-41-4	
Toluene	ND	mg/kg	0.0021	1	05/18/17 16:21	05/18/17 21:26	108-88-3	
Xylene (Total)	ND	mg/kg	0.0064	1	05/18/17 16:21	05/18/17 21:26	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	98	%.	70-130	1	05/18/17 16:21	05/18/17 21:26	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/18/17 16:21	05/18/17 21:26	460-00-4	
Toluene-d8 (S)	100	%.	70-130	1	05/18/17 16:21	05/18/17 21:26	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**4.7**	%		1		05/22/17 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**4.6**	mg/kg	2.1	1	05/21/17 12:30	05/21/17 22:14	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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Sample: BH#12 (4-5') **Lab ID: 7566063024** Collected: 05/10/17 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 12:00	05/23/17 08:18		
Surrogates								
a-Pinene (S)	33	%.	10-87	1	05/22/17 12:00	05/23/17 08:18		
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 12:00	05/23/17 15:57		N2
Surrogates								
a-Pinene (S)	37	%.	17-70	1	05/22/17 12:00	05/23/17 15:57		
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 18:09		
Surrogates								
4-Bromofluorobenzene (S)	86	%	64-122	1	05/24/17 00:00	05/24/17 18:09	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	05/18/17 16:21	05/18/17 21:50	71-43-2	
Ethylbenzene	ND	mg/kg	0.0022	1	05/18/17 16:21	05/18/17 21:50	100-41-4	
Toluene	ND	mg/kg	0.0022	1	05/18/17 16:21	05/18/17 21:50	108-88-3	
Xylene (Total)	ND	mg/kg	0.0065	1	05/18/17 16:21	05/18/17 21:50	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	70-130	1	05/18/17 16:21	05/18/17 21:50	17060-07-0	
4-Bromofluorobenzene (S)	101	%.	70-130	1	05/18/17 16:21	05/18/17 21:50	460-00-4	
Toluene-d8 (S)	101	%.	70-130	1	05/18/17 16:21	05/18/17 21:50	2037-26-5	
Percent Moisture	Analytical Method: ASTM D2974-07							
Percent Moisture	**6.8**	%		1		05/22/17 11:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**4.7**	mg/kg	2.1	1	05/21/17 12:30	05/21/17 22:32	16887-00-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
400 West Bethany Drive - Suite 190
Allen, TX 75013
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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 477892 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005, 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017

METHOD BLANK: 1957683 Matrix: Solid
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005, 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	05/23/17 16:10	
4-Bromofluorobenzene (S)	%	98	64-122	05/23/17 16:10	

LABORATORY CONTROL SAMPLE: 1957684

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	56.8	114	85-130	
4-Bromofluorobenzene (S)	%			95	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1957685 1957686

Parameter	Units	7566376001 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	61.9	61.9	63.6	64.2	100	101	85-125	1	12	
4-Bromofluorobenzene (S)	%						91	89	64-122			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 478228 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

METHOD BLANK: 1958922 Matrix: Solid
Associated Lab Samples: 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

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			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76173 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level
Associated Lab Samples: 7566063001, 7566063002

METHOD BLANK: 331022 Matrix: Solid
Associated Lab Samples: 7566063001, 7566063002

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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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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76190 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level
Associated Lab Samples: 7566063003, 7566063004, 7566063005, 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022

METHOD BLANK: 331092 Matrix: Solid
Associated Lab Samples: 7566063003, 7566063004, 7566063005, 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	05/18/17 02:07	
Ethylbenzene	mg/kg	ND	0.0020	05/18/17 02:07	
Toluene	mg/kg	ND	0.0020	05/18/17 02:07	
Xylene (Total)	mg/kg	ND	0.0060	05/18/17 02:07	
1,2-Dichloroethane-d4 (S)	%.	102	70-130	05/18/17 02:07	
4-Bromofluorobenzene (S)	%.	102	70-130	05/18/17 02:07	
Toluene-d8 (S)	%.	100	70-130	05/18/17 02:07	

LABORATORY CONTROL SAMPLE: 331093

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.019	95	74-130	
Ethylbenzene	mg/kg	.02	0.019	96	77-127	
Toluene	mg/kg	.02	0.019	95	74-127	
Xylene (Total)	mg/kg	.06	0.054	90	74-128	
1,2-Dichloroethane-d4 (S)	%.			100	70-130	
4-Bromofluorobenzene (S)	%.			98	70-130	
Toluene-d8 (S)	%.			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331094 331095

Parameter	Units	7566063003 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	.024	.024	0.019	0.017	82	74	32-152	10	20	
Ethylbenzene	mg/kg	ND	.024	.024	0.020	0.018	83	76	18-166	9	20	
Toluene	mg/kg	ND	.024	.024	0.020	0.018	83	78	18-166	6	20	
Xylene (Total)	mg/kg	ND	.071	.071	0.057	0.052	80	73	10-172	9	20	
1,2-Dichloroethane-d4 (S)	%.						97	95	70-130			
4-Bromofluorobenzene (S)	%.						99	100	70-130			
Toluene-d8 (S)	%.						102	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76284 Analysis Method: EPA 8260
QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level
Associated Lab Samples: 7566063023, 7566063024

METHOD BLANK: 331530 Matrix: Solid
Associated Lab Samples: 7566063023, 7566063024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	mg/kg	ND	0.0020	05/18/17 13:06	
Ethylbenzene	mg/kg	ND	0.0020	05/18/17 13:06	
Toluene	mg/kg	ND	0.0020	05/18/17 13:06	
Xylene (Total)	mg/kg	ND	0.0060	05/18/17 13:06	
1,2-Dichloroethane-d4 (S)	%.	103	70-130	05/18/17 13:06	
4-Bromofluorobenzene (S)	%.	100	70-130	05/18/17 13:06	
Toluene-d8 (S)	%.	101	70-130	05/18/17 13:06	

LABORATORY CONTROL SAMPLE: 331531

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	mg/kg	.02	0.016	82	74-130	
Ethylbenzene	mg/kg	.02	0.019	93	77-127	
Toluene	mg/kg	.02	0.017	84	74-127	
Xylene (Total)	mg/kg	.06	0.057	95	74-128	
1,2-Dichloroethane-d4 (S)	%.			105	70-130	
4-Bromofluorobenzene (S)	%.			96	70-130	
Toluene-d8 (S)	%.			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331532 331533

Parameter	Units	7566235001 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	.022	.02	0.014	0.014	66	69	32-152	5	20	
Ethylbenzene	mg/kg	ND	.021	.02	0.016	0.015	73	77	18-166	4	20	
Toluene	mg/kg	ND	.022	.02	0.015	0.014	70	73	18-166	6	20	
Xylene (Total)	mg/kg	ND	.066	.058	0.046	0.044	71	76	10-172	4	20	
1,2-Dichloroethane-d4 (S)	%.						104	101	70-130			
4-Bromofluorobenzene (S)	%.						95	96	70-130			
Toluene-d8 (S)	%.						101	103	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76379 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005

METHOD BLANK: 332024 Matrix: Solid
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005

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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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76384 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

METHOD BLANK: 332073 Matrix: Solid
Associated Lab Samples: 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Range Organics	mg/kg	ND	3.3	05/23/17 10:03	
a-Pinene (S)	%.	35	10-87	05/23/17 10:03	

LABORATORY CONTROL SAMPLE: 332074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Range Organics	mg/kg	33.3	27.7	83	42-124	
a-Pinene (S)	%.			36	10-87	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 332075 332076

Parameter	Units	7566063006 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	53.2	53.3	43.7	40.1	79	72	10-172	9	20	
a-Pinene (S)	%.						33	57	10-87			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76423 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005

METHOD BLANK: 332186 Matrix: Solid
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005

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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76431 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 3546 Analysis Description: EPA 8015 ORO
Associated Lab Samples: 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

METHOD BLANK: 332224 Matrix: Solid
Associated Lab Samples: 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil Range Organics	mg/kg	ND	3.3	05/22/17 20:09	N2
a-Pinene (S)	%.	45	17-70	05/22/17 20:09	

LABORATORY CONTROL SAMPLE: 332225

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil Range Organics	mg/kg	33.3	30.1	90	48-145	N2
a-Pinene (S)	%.			45	17-70	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 332226 332227

Parameter	Units	7566063006 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	53.3	53.2	39.2	42.5	69	75	10-196	8	40	N2
a-Pinene (S)	%.						29	26	17-70			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76355 Analysis Method: ASTM D2974-07
QC Batch Method: ASTM D2974-07 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005, 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012, 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019

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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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76410 Analysis Method: ASTM D2974-07
QC Batch Method: ASTM D2974-07 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

SAMPLE DUPLICATE: 332148

Parameter	Units	7566053001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	14.3	13.1	8	20	

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QUALITY CONTROL DATA

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76362 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005, 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012

METHOD BLANK: 331891 Matrix: Solid
Associated Lab Samples: 7566063001, 7566063002, 7566063003, 7566063004, 7566063005, 7566063006, 7566063007, 7566063008, 7566063009, 7566063010, 7566063011, 7566063012

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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

QC Batch: 76364 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

METHOD BLANK: 331903 Matrix: Solid
Associated Lab Samples: 7566063013, 7566063014, 7566063015, 7566063016, 7566063017, 7566063018, 7566063019, 7566063020, 7566063021, 7566063022, 7566063023, 7566063024

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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

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

D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
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-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7566063001	BH#1 (0-1')	EPA 3546	76379	EPA 8015B	76478
7566063002	BH#1 (4-5')	EPA 3546	76379	EPA 8015B	76478
7566063003	BH#2 (0-1')	EPA 3546	76379	EPA 8015B	76478
7566063004	BH#2 (4-5')	EPA 3546	76379	EPA 8015B	76478
7566063005	BH#3 (0-1')	EPA 3546	76379	EPA 8015B	76478
7566063006	BH#3 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063007	BH#4 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063008	BH#4 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063009	BH#5 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063010	BH#5 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063011	BH#6 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063012	BH#6 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063013	BH#7 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063014	BH#7 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063015	BH#8 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063016	BH#8 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063017	BH#9 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063018	BH#9 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063019	BH#10 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063020	BH#10 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063021	BH#11 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063022	BH#11 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063023	BH#12 (0-1')	EPA 3546	76384	EPA 8015B	76465
7566063024	BH#12 (4-5')	EPA 3546	76384	EPA 8015B	76465
7566063001	BH#1 (0-1')	EPA 3546	76423	EPA 8015B Modified	76479
7566063002	BH#1 (4-5')	EPA 3546	76423	EPA 8015B Modified	76479
7566063003	BH#2 (0-1')	EPA 3546	76423	EPA 8015B Modified	76479
7566063004	BH#2 (4-5')	EPA 3546	76423	EPA 8015B Modified	76479
7566063005	BH#3 (0-1')	EPA 3546	76423	EPA 8015B Modified	76479
7566063006	BH#3 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063007	BH#4 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063008	BH#4 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063009	BH#5 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063010	BH#5 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063011	BH#6 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063012	BH#6 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063013	BH#7 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063014	BH#7 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063015	BH#8 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063016	BH#8 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063017	BH#9 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063018	BH#9 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063019	BH#10 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063020	BH#10 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063021	BH#11 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466
7566063022	BH#11 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063023	BH#12 (0-1')	EPA 3546	76431	EPA 8015B Modified	76466

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7566063024	BH#12 (4-5')	EPA 3546	76431	EPA 8015B Modified	76466
7566063001	BH#1 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063002	BH#1 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063003	BH#2 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063004	BH#2 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063005	BH#3 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063006	BH#3 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063007	BH#4 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063008	BH#4 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063009	BH#5 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063010	BH#5 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063011	BH#6 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063012	BH#6 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063013	BH#7 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063014	BH#7 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063015	BH#8 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063016	BH#8 (4-5')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063017	BH#9 (0-1')	EPA 5035A/5030B	477892	EPA 8015B	478099
7566063018	BH#9 (4-5')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566063019	BH#10 (0-1')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566063020	BH#10 (4-5')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566063021	BH#11 (0-1')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566063022	BH#11 (4-5')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566063023	BH#12 (0-1')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566063024	BH#12 (4-5')	EPA 5035A/5030B	478228	EPA 8015B	478453
7566063001	BH#1 (0-1')	EPA 5030 Low	76173	EPA 8260	76183
7566063002	BH#1 (4-5')	EPA 5030 Low	76173	EPA 8260	76183
7566063003	BH#2 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063004	BH#2 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063005	BH#3 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063006	BH#3 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063007	BH#4 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063008	BH#4 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063009	BH#5 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063010	BH#5 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063011	BH#6 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063012	BH#6 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063013	BH#7 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063014	BH#7 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063015	BH#8 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063016	BH#8 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063017	BH#9 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063018	BH#9 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063019	BH#10 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063020	BH#10 (4-5')	EPA 5030 Low	76190	EPA 8260	76216
7566063021	BH#11 (0-1')	EPA 5030 Low	76190	EPA 8260	76216
7566063022	BH#11 (4-5')	EPA 5030 Low	76190	EPA 8260	76216

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7566063023	**BH#12 (0-1')**	EPA 5030 Low	76284	EPA 8260	76287
7566063024	**BH#12 (4-5')**	EPA 5030 Low	76284	EPA 8260	76287
7566063001	**BH#1 (0-1')**	ASTM D2974-07	76355		
7566063002	**BH#1 (4-5')**	ASTM D2974-07	76355		
7566063003	**BH#2 (0-1')**	ASTM D2974-07	76355		
7566063004	**BH#2 (4-5')**	ASTM D2974-07	76355		
7566063005	**BH#3 (0-1')**	ASTM D2974-07	76355		
7566063006	**BH#3 (4-5')**	ASTM D2974-07	76355		
7566063007	**BH#4 (0-1')**	ASTM D2974-07	76355		
7566063008	**BH#4 (4-5')**	ASTM D2974-07	76355		
7566063009	**BH#5 (0-1')**	ASTM D2974-07	76355		
7566063010	**BH#5 (4-5')**	ASTM D2974-07	76355		
7566063011	**BH#6 (0-1')**	ASTM D2974-07	76355		
7566063012	**BH#6 (4-5')**	ASTM D2974-07	76355		
7566063013	**BH#7 (0-1')**	ASTM D2974-07	76355		
7566063014	**BH#7 (4-5')**	ASTM D2974-07	76355		
7566063015	**BH#8 (0-1')**	ASTM D2974-07	76355		
7566063016	**BH#8 (4-5')**	ASTM D2974-07	76355		
7566063017	**BH#9 (0-1')**	ASTM D2974-07	76355		
7566063018	**BH#9 (4-5')**	ASTM D2974-07	76355		
7566063019	**BH#10 (0-1')**	ASTM D2974-07	76355		
7566063020	**BH#10 (4-5')**	ASTM D2974-07	76410		
7566063021	**BH#11 (0-1')**	ASTM D2974-07	76410		
7566063022	**BH#11 (4-5')**	ASTM D2974-07	76410		
7566063023	**BH#12 (0-1')**	ASTM D2974-07	76410		
7566063024	**BH#12 (4-5')**	ASTM D2974-07	76410		
7566063001	**BH#1 (0-1')**	EPA 300.0	76362	EPA 300.0	76385
7566063002	**BH#1 (4-5')**	EPA 300.0	76362	EPA 300.0	76385
7566063003	**BH#2 (0-1')**	EPA 300.0	76362	EPA 300.0	76385
7566063004	**BH#2 (4-5')**	EPA 300.0	76362	EPA 300.0	76385
7566063005	**BH#3 (0-1')**	EPA 300.0	76362	EPA 300.0	76385
7566063006	**BH#3 (4-5')**	EPA 300.0	76362	EPA 300.0	76385
7566063007	**BH#4 (0-1')**	EPA 300.0	76362	EPA 300.0	76385
7566063008	**BH#4 (4-5')**	EPA 300.0	76362	EPA 300.0	76385
7566063009	**BH#5 (0-1')**	EPA 300.0	76362	EPA 300.0	76385
7566063010	**BH#5 (4-5')**	EPA 300.0	76362	EPA 300.0	76385
7566063011	**BH#6 (0-1')**	EPA 300.0	76362	EPA 300.0	76385
7566063012	**BH#6 (4-5')**	EPA 300.0	76362	EPA 300.0	76385
7566063013	**BH#7 (0-1')**	EPA 300.0	76364	EPA 300.0	76390
7566063014	**BH#7 (4-5')**	EPA 300.0	76364	EPA 300.0	76390
7566063015	**BH#8 (0-1')**	EPA 300.0	76364	EPA 300.0	76390
7566063016	**BH#8 (4-5')**	EPA 300.0	76364	EPA 300.0	76390
7566063017	**BH#9 (0-1')**	EPA 300.0	76364	EPA 300.0	76390
7566063018	**BH#9 (4-5')**	EPA 300.0	76364	EPA 300.0	76390
7566063019	**BH#10 (0-1')**	EPA 300.0	76364	EPA 300.0	76390
7566063020	**BH#10 (4-5')**	EPA 300.0	76364	EPA 300.0	76390

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00846/Lockhart B#28 #6
Pace Project No.: 7566063

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7566063021	**BH#11 (0-1')**	EPA 300.0	76364	EPA 300.0	76390
7566063022	**BH#11 (4-5')**	EPA 300.0	76364	EPA 300.0	76390
7566063023	**BH#12 (0-1')**	EPA 300.0	76364	EPA 300.0	76390
7566063024	**BH#12 (4-5')**	EPA 300.0	76364	EPA 300.0	76390

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# : 7566063

7566063

Client Name: TetraTech 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 ☐

Thermometer Used: IR-CST4 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

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: SOIL	Yes ☑ No ☐ NA ☐	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: DAT Date: 05/16/14 Project Manager Review: Alex Sanders

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 3

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-MD-00846

PROJECT NAME: Lockhart B#28 #6 Soil Boring Asses. Lea Co, NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS	TPH GRO	TPH DRO	
	5.10.17		S		X	BH #1 (0-1')	1	N			X		X	X											X					X	X	001
						BH #1 (4-5')	1	N			X		X	X											X					X	X	002
						BH #2 (0-1')	1	N			X		X	X											X					X	X	003
						BH #2 (4-5')	1	N			X		X	X											X					X	X	004
						BH #3 (0-1')	1	N			X		X	X											X					X	X	005
						BH #3 (4-5')	1	N			X		X	X											X					X	X	006
						BH #4 (0-1')	1	N			X		X	X											X					X	X	007
						BH #4 (4-5')	1	N			X		X	X											X					X	X	008
						BH #5 (0-1')	1	N			X		X	X											X					X	X	009
						BH #5 (4-5')	1	N			X		X	X											X					X	X	010

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Daniel Palmer Pace Date: 5/11/17 Time: 0900

SAMPLED BY: (Print & Initial) MC + CM Date: 5-10-17 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS HAND DELIVERED UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: GREG POPE

Results by:

RECEIVING LABORATORY: ~~Xenco~~ PACE ALLEN

ADDRESS:

CITY: ~~Houston~~ STATE: TX ZIP:

CONTACT: PHONE: DATE: TIME:

RECEIVED BY: (Signature)

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 09:00 3.5° IR: C54

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

PAGE: 2 OF: 3

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-MD-00846

PROJECT NAME: Lockhart B#28 #6 Soil boring Asses. Lea Co, NM

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD. TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS	TPH GEO	TPH DRO	
	5-10-17		S		X	BH#6 (0-1')	1	2			X		X	X											X				X	X	011
						BH#6 (4-5')	1	2			X		X	X											X				X	X	012
						BH#7 (0-1')	1	2			X		X	X											X				X	X	013
						BH#7 (4-5')	1	2			X		X	X											X				X	X	014
						BH#8 (0-1')	1	2			X		X	X											X				X	X	015
						BH#8 (4-5')	1	2			X		X	X											X				X	X	016
						BH#9 (0-1')	1	2			X		X	X											X				X	X	017
						BH#9 (4-5')	1	2			X		X	X											X				X	X	018
						BH#10 (0-1')	1	2			X		X	X											X				X	X	019
	↓		↓		↓	BH#10 (4-5')	1	2			X		X	X											X				X	X	020

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Daniel Palma Date: 5/16/17 Time: 0900

SAMPLED BY: (Print & Initial) mc tcm Date: Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) ~~FEDEX~~ BUS ~~HAND DELIVERED~~ UPS AIRBILL #: OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Greg Pope

Results by:

RECEIVING LABORATORY: PACE

ADDRESS: [redacted] CITY: [redacted] STATE: TX-AUST ZIP:

CONTACT: PHONE: DATE: TIME:

RECEIVED BY: (Signature)

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: PR; CS4 3.5°

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST
(Circle or Specify Method No.)

CLIENT NAME: Conoco Phillips

SITE MANAGER: Greg Pope

PROJECT NO.: 212C-MD-00846

PROJECT NAME: Lockhart B#28 #6 soil boring ASSESS. Lea Co, NM

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH 8015 MOD (Ext. to C35) TX1005	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC.MS Vol. 8240/8260/624	GC.MS Semi. Vol. 8270/625	PCB's 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS	TPH GRO	TPH DRO		
	5-10-17		S		X	BH #11 (0-1')	1	N			X		X	X											X					X	X	021
	↓		↓		↓	BH #11 (4-5')	1	N			X		X	X											X					X	X	022
						BH #12 (0-1')	1	N			X		X	X											X					X	X	023
	↓		↓		↓	BH #12 (4-5')	1	N			X		X	X											X					X	X	024

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Pamela Palmer Pace Date: 5/10/17 Time: 09:00

SAMPLED BY: (Print & Initial) MC & CM Date: 5-10-17 Time:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

SAMPLE SHIPPED BY: (Circle) FEDEX BUS UPS HAND DELIVERED

AIRBILL #:

OTHER:

RELINQUISHED BY: (Signature) Date: Time:

RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Greg Pope

Results by:

RECEIVING LABORATORY: PACE

ADDRESS: (MC) [redacted]

CITY: [redacted] STATE: TX-ALLEN ZIP:

CONTACT: PHONE: DATE: TIME:

RECEIVED BY: (Signature)

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: IRCS4 3.5°

REMARKS:

Please fill out all copies - Laboratory retains Yellow copy - Return Orginal copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Appendix D

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-1		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	18.84	N
	LONGITUDE	103	15	50.72	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-2		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	19.42	N
	LONGITUDE	103	15	50.64	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

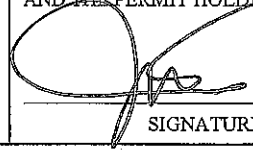
MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:



SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-3		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	20.28	N
	LONGITUDE	103	15	50.80	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Trémmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-4		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	20.36	N
	LONGITUDE	103	15	50.09	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish sand/clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

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SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-5		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	20.28	N
	LONGITUDE	103	15	49.73	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-6		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	19.41	N
	LONGITUDE	103	15	49.84	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-7		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	19.47	N
	LONGITUDE	103	15	50.24	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Trenmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-8		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	19.26	N
	LONGITUDE	103	15	50.31	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

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SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-9		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	21.00	N
	LONGITUDE	103	15	49.62	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST — TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

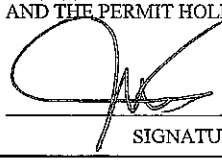
MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:



SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE — WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-10		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	19.49	N
	LONGITUDE	103	15	49.11	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Reddish brown sand/clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-11		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	19.18	N
	LONGITUDE	103	15	50.40	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupliug diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

3. ANNULAR MATERIAL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
0	6.0	6.0	Type 2 Portland Cemt. w/5% Bent. quick gel mix	1.18	Pump Mix w/Tremmie

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	0.5	0.5	Caliche	Y ✓ N	
0.5	6.0	5.5	Red/brown clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

5. TEST; RIG SUPERVISION

WELL TEST: TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

MISCELLANEOUS INFORMATION:

PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:

William B. Atkins

6. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER / PRINT SIGNEE NAME

5/24/2017

DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 06/30/2017)

FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

OSE POD NO. (WELL NO.)	WELL TAG ID NO.	OSE FILE NO(S).
SB-12		

WELL OWNER NAME(S)	PHONE (OPTIONAL)
ConocoPhillips	

WELL OWNER MAILING ADDRESS	CITY	STATE	ZIP
600 N. Dairy Ashford	Houston	TX	77079-1175

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	27	19.43	N
	LONGITUDE	103	15	51.77	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE

Lockhart B28-#6

2. DRILLING & CASING INFORMATION

LICENSE NO.	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD-1456	John W. White	White Drilling Company, Inc.

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
5/10/17	5/10/17		6.0	Dry

COMPLETED WELL IS: ☐ ARTESIAN ☑ DRY HOLE ☐ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT)

DRILLING FLUID: ☑ AIR ☐ MUD ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)

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DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT
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WR-20 WELL RECORD & LOG (Version 06/30/17)

FILE NO.	POD NO.	TRN NO.
LOCATION	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

DEPTH (feet bgl) FROM	DEPTH (feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES **(attach supplemental sheets to fully describe all units)**	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
0.0	6.0	6.0	Red clayey sand	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:

☐ PUMP ☐ AIR LIFT ☐ BAILER ☐ OTHER – SPECIFY:

TOTAL ESTIMATED WELL YIELD (gpm): 0.00

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FILE NO.	POD NO.	TRN NO.	
LOCATION		WELL TAG ID NO.	PAGE 2 OF 2