SITE INFORMATION

Report Type: Work Plan 1RP No. 4233

General Site Information:						
Site:	**EVGSAU 3366-029**					
Company:	**ConocoPhillips**					
Section, Township and Range		**Sec. 33**	**T 17S**	**R 35E**		
Lease Number:	**API No. 30-025-02987**					
County:	**Lea**					
Release GPS:	**32.7932663°N**			**103.4691315°W**		
Surface Owner:	State					
Mineral Owner:						
Directions:	From the intersection of HWY 238 and Buckeye Road, travel EAST on Buckeye Road for 1.7 miles Turn RIGHT (SOUTH) and go through a cattle guard and take the left fork heading SOUTHEAST. Travel 0.57 miles on the main lease road. Turn RIGHT (SOUTHWEST) and travel 0.2 miles to the location.					

Release Data:	
Date Released:	4/4/2016
Type Release:	Produced Water / Oil
Source of Contamination:	Flow Line
Fluid Released:	5.77 bbls / 10 bbls
Fluids Recovered:	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***	Average 70 feet
>100 ft.	0	
WellHead Protection:	***Ranking Score***	***Site Data***
Water Source <1,000 ft., Private <200 ft.	*20*	
Water Source >1,000 ft., Private >200 ft.	***0***	*0*
Surface Body of Water:	***Ranking Score***	***Site Data***
<200 ft.	*20*	
200 ft - 1,000 ft.	10	
>1,000 ft.	***0***	0
Total Ranking Score:	***10***	

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

TETRA TECH

PRELIMINARY RESULTS

March 6, 2018

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

RE: Work Plan for the ConocoPhillips Company, EVGSAU 3366-029, Section 33, Township 17S, Range 35E, Lea County, New Mexico, 1RP No. 4233

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (Conoco) to assess a release that occurred at the EVGSAU 3366-029 (site) located in Section 33, Township 17 South, Range 35 East, Lea County, New Mexico, approximately 12 miles southwest of the town of Lovington and 21 miles northwest of Hobbs in southeastern Lea County. The spill site coordinates are N 32.7932663º, W 103.4691315º. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report for 1RP #4233, the leak was discovered on April 4, 2016, and released 5.77 barrels of produced water and 10 barrels of crude oil due to a flowline leak. As a result, approximately ten (10) barrels of fluid were recovered, leaving approximately 5.77 barrels unrecovered. As part of the emergency response action, Conoco isolated the well to repair the flowline in the battery facility. The release occurred from a flowline that was running across a closed reserve pit. The fluids migrated north along low lying area running parallel to a buried underground pipeline, which is outside the reserve pit footprint. The C-141 form is included in Appendix A.

Groundwater

According to New Mexico Office of State Engineer's (NMOSE) Water Rights Reporting System, there are seven (7) water wells are reported in Section 33, Township 17 South (T17S), Range 35 East (R35E). Of these wells, the shallowest depth to water was reported at 50 feet below ground surface, and the average depth to water was reported at 70 feet below surface. According to the Chevron Texaco Groundwater Trend map, the average depth to water in the area is less than 100 feet below surface. The groundwater data is presented in Appendix B.

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

Regulatory

A risk-based evaluation was performed for the site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 1,000 mg/kg.

Soil Assessment and Analytical Results

On August 9, 2017, Tetra Tech personnel and subcontractor were onsite to advance three (3) soil borings (SB-1, SB-2 and SB-3) to assess and define the extent of the impacted soils outside the reserve pit footprint. The soil borings (SB-1, SB-2, and SB-3) were drilled to a total depth of 55, 20, and 25 feet below ground surface (bgs), respectively. The soil samples were field screened for organic vapors with a PID and for chlorides.

Three soil samples were collected from each soil boring location for analysis of TPH by EPA method 8015B modified and BTEX by EPA Method 8260. All of the samples collected were analyzed for chloride by EPA method 300.0. The soil analytical results are summarized in Table 1, and a copy of the laboratory analytical report and chain-of-custody document is included in Appendix C.

Referring to Table 1, the BTEX concentrations were all below the laboratory reporting limits. The total TPH did not exceed the RRAL of 1,000 mg/kg in any of the collected samples, with the highest total TPH concentration was 531.2 mg/kg in SB-1 (2-3'). Chlorides concentrations were present in the collected samples with variability. Chloride concentrations did not exceed the recommended 600 mg/kg for any interval at SB-2. However, chlorides exceeding the recommended limit were present in SB-1 from the surface to the 34-35' depth interval, and SB-3 from the surface to the 9-10' depth interval.

Work Plan

Based on the results, ConocoPhillips proposes to remove the impacted material as highlighted (green) in Table 1 and shown on Figure 4. Based on the analytical data, ConocoPhillips proposes to excavate the areas of soil borings (SB-1 and SB-3) to a depth of 4 feet bgs and install a 40 mil liner in the excavation bottom to cap the remaining chlorides in the subsurface soils. The excavation will then be backfilled with clean material to surface grade. All of the excavated material will be transported offsite for proper disposal.

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

Revegetation Plan

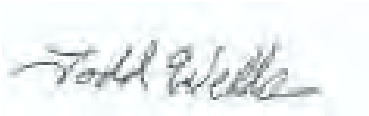
The backfilled areas will be seeded in June 2018 in order to coincide with the rainy season in Southeastern New Mexico to aid in revegetation. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Shallow (SH) Sites Seed Mixture will be used for seeding and will be planted in the amount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

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

Conclusion

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

Respectfully submitted,
TETRA TECH

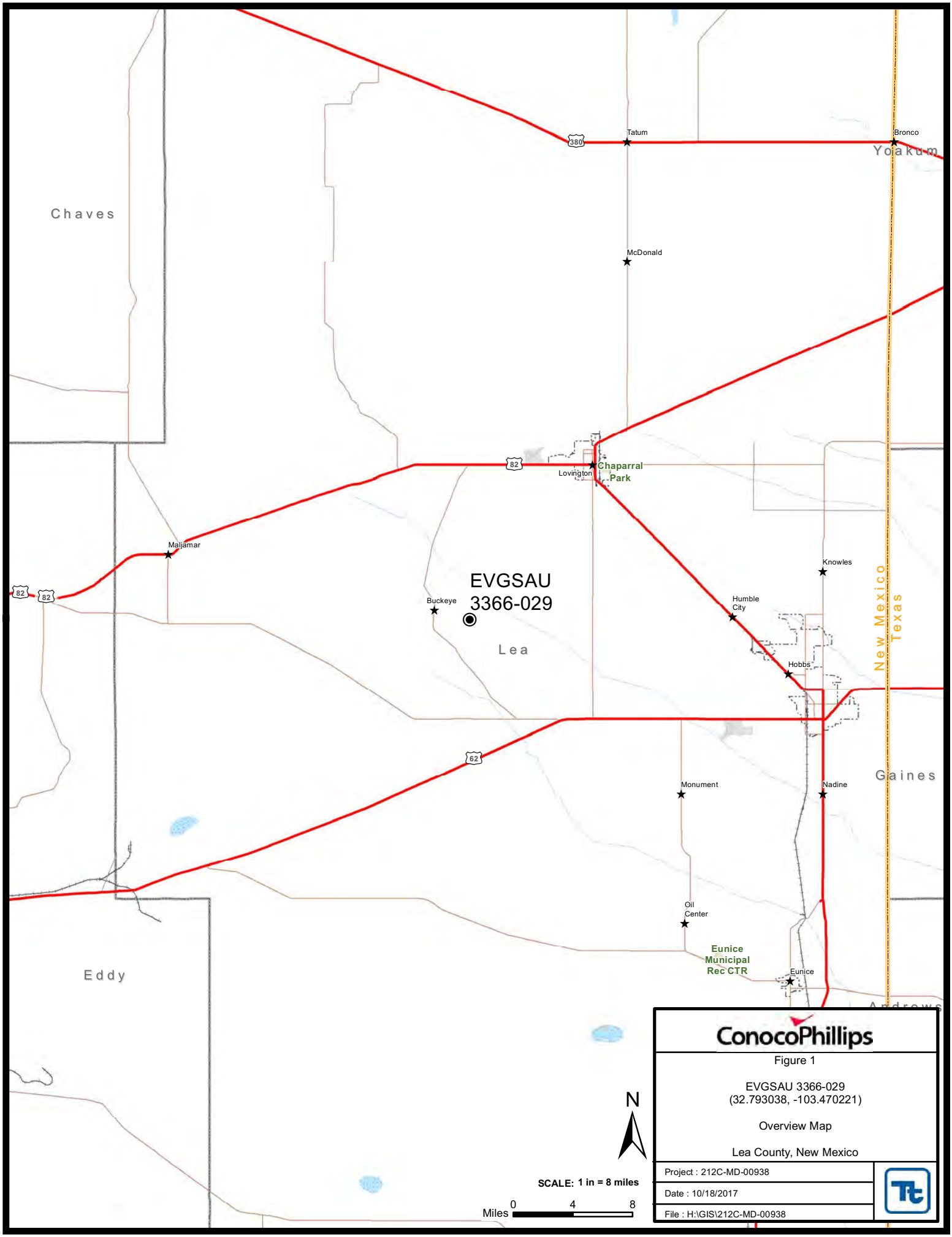


Todd Wells,
Project Manager

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

cc: Neal Goates – ConocoPhillips

Figures



ConocoPhillips

Figure 1

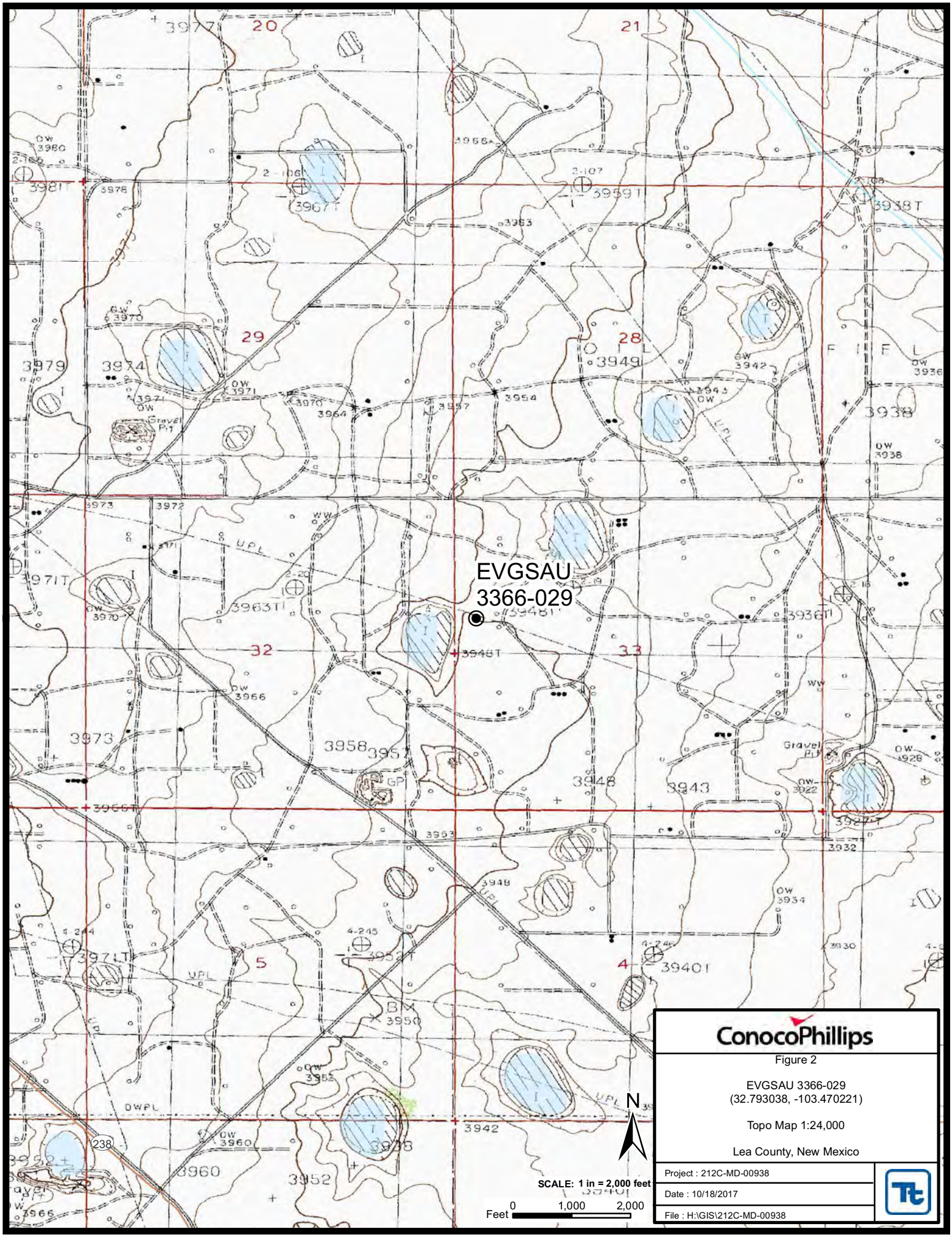
EVGSAU 3366-029
(32.793038, -103.470221)

Overview Map

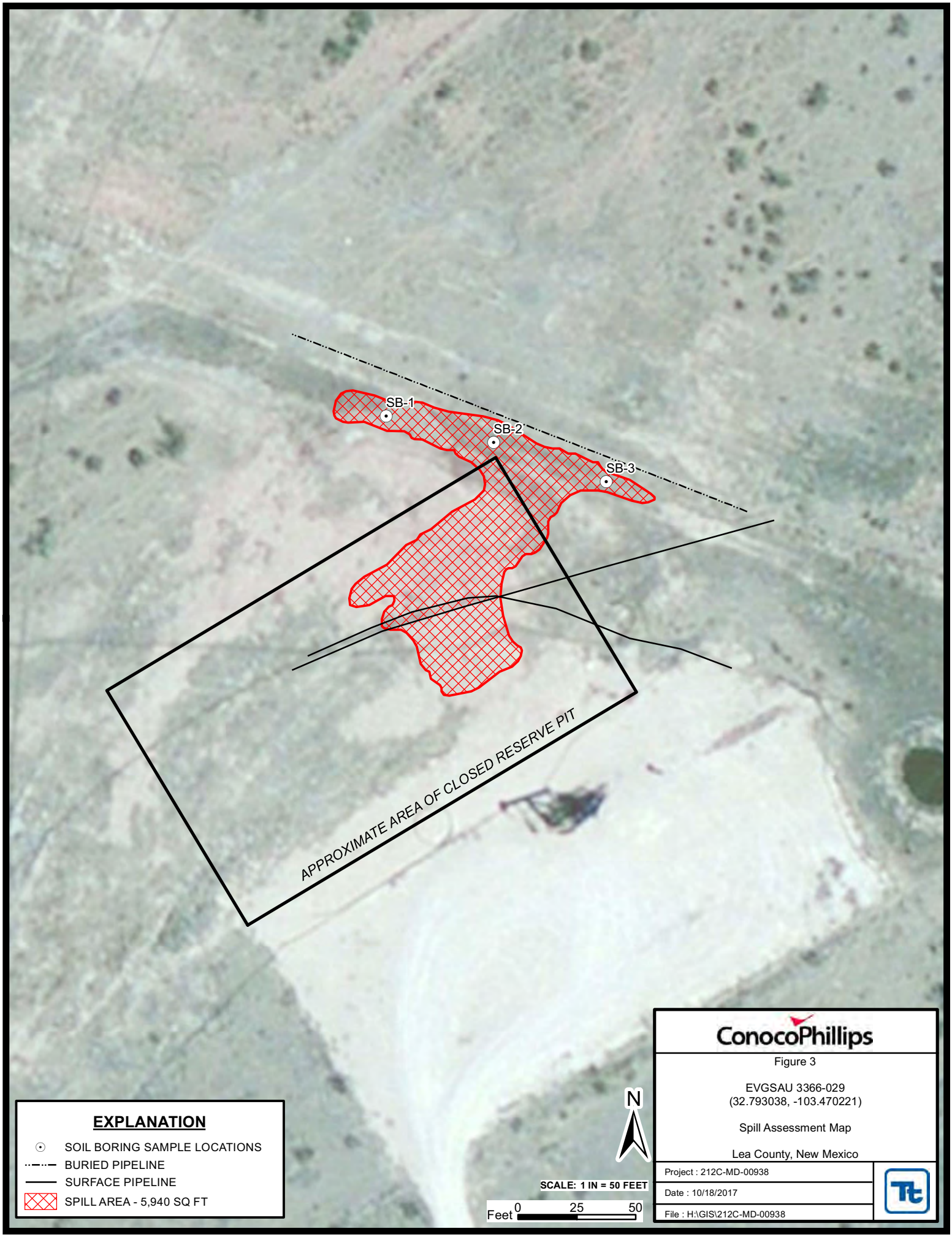
Lea County, New Mexico

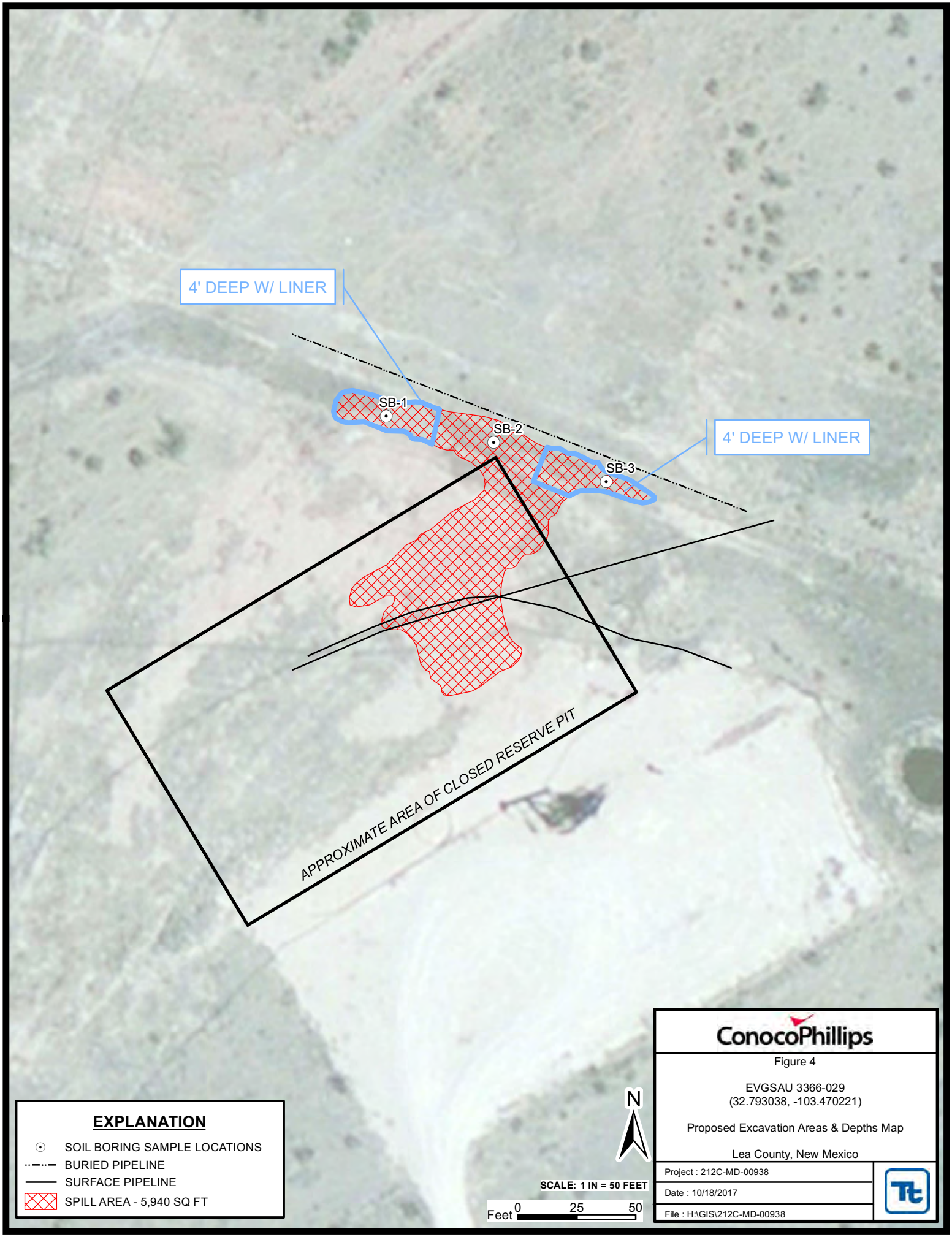
Project : 212C-MD-00938	
Date : 10/18/2017	
File : H:\GIS\212C-MD-00938	

Mapped By: Isabel Marmolejo



Mapped By: Isabel Marmolejo


SB-1
SB-2
SB-3
APPROXIMATE AREA OF CLOSED RESERVE PIT
EXPLANATION
SOIL BORING SAMPLE LOCATIONS
BURIED PIPELINE
SURFACE PIPELINE
SPILL AREA - 5,940 SQ FT
N
SCALE: 1 IN = 50 FEET
Feet 0 25 50
ConocoPhillips
Figure 3
EVGSAU 3366-029
(32.793038, -103.470221)
Spill Assessment Map
Lea County, New Mexico
Project : 212C-MD-00938
Date : 10/18/2017
File : H:\GIS\212C-MD-00938
Mapped By: Isabel Marmolejo


4' DEEP W/ LINER
SB-1
SB-2
SB-3
4' DEEP W/ LINER
APPROXIMATE AREA OF CLOSED RESERVE PIT
EXPLANATION
SOIL BORING SAMPLE LOCATIONS
BURIED PIPELINE
SURFACE PIPELINE
SPILL AREA - 5,940 SQ FT
N
SCALE: 1 IN = 50 FEET
Feet 0 25 50
ConocoPhillips
Figure 4
EVGSAU 3366-029
(32.793038, -103.470221)
Proposed Excavation Areas & Depths Map
Lea County, New Mexico
Project : 212C-MD-00938
Date : 10/18/2017
File : H:\GIS\212C-MD-00938
Mapped By: Isabel Marmolejo

Tables

Table 1
ConocoPhillips
EVGSAU 3366-029
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	Soil Status		Field PID (PPM)	TPH				BTEX					
			In-Situ	Removed		TPH GRO mg/kg	TPH DRO mg/kg	TPH ORO mg/kg	Total TPH mg/kg	Benzene (ug/kg)	Toluene (ug/kg)	Ethylbenzene (ug/kg)	Xylenes (ug/kg)	Total BTEX (ug/kg)	Chlorides (mg/kg)
SB-1 - Cuttings	08/09/17	0-1	X		0.7	-	-	-	-	-	-	-	-	-	780
Cuttings	"	2-3	X		93.2	<10.6	432.0	99.2	531.2	<5.3	<5.3	<5.3	<5.3	<5.3	470
Cuttings	"	4-5	X		2.0	-	-	-	-	-	-	-	-	-	569
Cuttings	"	6-7	X		20.0	-	-	-	-	-	-	-	-	-	723
Cuttings	"	9-10	X		1.5	<11.0	<10.8	<10.8	<11.0	<5.5	<5.5	<5.5	<5.5	<5.5	545
Cuttings	"	14-15	X		1.5	-	-	-	-	-	-	-	-	-	1,510
Cuttings	"	19-20	X		2.0	<10.7	<10.5	<10.5	<10.7	<5.3	<5.3	<5.3	<5.3	<5.3	686
Cuttings	"	24-25	X		2.0	-	-	-	-	-	-	-	-	-	1,500
Cuttings	"	29-30	X		2.0	-	-	-	-	-	-	-	-	-	2,430
Cuttings	"	34-35	X		2.0	-	-	-	-	-	-	-	-	-	2,640
Cuttings	"	39-40	X		2.0	-	-	-	-	-	-	-	-	-	567
Cuttings	"	44-45	X		2.0	-	-	-	-	-	-	-	-	-	114
Cuttings	"	49-50	X		2.0	-	-	-	-	-	-	-	-	-	105
Cuttings	"	54-55	X		2.0	-	-	-	-	-	-	-	-	-	112
SB-2 - Cuttings	08/09/17	0-1	X		1.4	<11.5	<33.1	<33.1	<33.1	<5.7	<5.7	<5.7	<5.7	<5.7	129
Cuttings	"	2-3	X		2.0	-	-	-	-	-	-	-	-	-	291
Cuttings	"	4-5	X		1.1	<10.6	25.4	33.1	58.5	<5.3	<5.3	<5.3	<5.3	<5.3	208
Cuttings	"	6-7	X		1.3	-	-	-	-	-	-	-	-	-	245
Cuttings	"	9-10	X		1.3	-	-	-	-	-	-	-	-	-	160
Cuttings	"	14-15	X		1.9	<10.3	<9.8	<9.8	<10.3	<5.2	<5.2	<5.2	<5.2	<5.2	107
Cuttings	"	19-20	X		2.0	-	-	-	-	-	-	-	-	-	111
SB-3 - Cuttings	08/09/17	0-1	X		0.8	<12.7	<12.3	<12.3	-	<6.2	<6.2	<6.2	<6.2	<6.2	2,080
Cuttings	"	2-3	X		0.4	-	-	-	-	-	-	-	-	-	487
Cuttings	"	4-5	X		0.1	<11.0	<10.8	<10.8	-	<5.4	<5.4	<5.4	<5.4	<5.4	2,180
Cuttings	"	6-7	X		0.1	-	-	-	-	-	-	-	-	-	1,350
Cuttings	"	9-10	X		0.6	-	-	-	-	-	-	-	-	-	672
Cuttings	"	14-15	X		0.7	<10.7	<10.5	<10.5	<10.7	<5.4	<5.4	<5.4	<5.4	<5.4	425
Cuttings	"	19-20	X		1.0	-	-	-	-	-	-	-	-	-	131
Cuttings	"	24-25	X		1.2	-	-	-	-	-	-	-	-	-	108

(-) Not Analyzed
Proposed Excavation Depth
Liner Installation

Photos

ConocoPhillips
EVGSAU 3366-029
Lea County, New Mexico

View Northeast - Area of SB-1

View Northeast– Area of SB-2

ConocoPhillips
EVGSAU 3366-029
Lea County, New Mexico

View Northwest– Area of SB-3

Appendix A

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **ConocoPhillips**	Contact: **Adam Stephens**
Address: **29 Vacuum Complex Lane**	Telephone No. **575-391-3133**
Facility Name: **EVGSAU 3366-029**	Facility Type: **Well**

Surface Owner: NMOCD	Mineral Owner: NMOCD	API No. 30-025-02987

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	33	17S	35E	1980	North	660	West	**LEA**

Latitude N32.7932663 Longitude W103.4691315

NATURE OF RELEASE

Type of Release: **Spill**	Volume of Release: 15.77 BBLS	Volume Recovered: 10 BBLS
Source of Release: Flowline	Date and Hour of Occurrence **04/4/2016 8:00 am**	Date and Hour of Discovery **04/4/2016 8:30 am**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*

On Monday April 4, 2016 at 0830 (MDT), a spill occurred at the EVGSAU 3366-029 after MSO discovered a flowline leak during routine checks, resulting in the release of 5.77 bbls produced water and 10 bbls oil, with 10 bbls of fluid recovered. Immediate action was to isolate the well and contact supervision. Location will be remediated as per NMOCD and COPC policies.

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: *Adam R. Stephens*

Printed Name: Adam Stephens

Title: LEAD HSE

E-mail Address: ***adam.r.stephens@conocophillips.com***

Date: 04/6/2016 Phone:575-391-3133

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Approval Date: 04/06/2016 Expiration Date: 06/06/2016

Conditions of Approval:
Discrete site samples only. Delineate and remediate per NMOCD guidelines. Ensure SLO concurrence/ approval.

Attached ☐
1RP 4233

* Attach Additional Sheets If Necessary

nJXK1609752883
pJXK1609752971

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Conoco Phillips - EVGSAU 3366-029
Lea County, New Mexico

16 South 34 East

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

16 South 35 East

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

16 South 36 East

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

17 South 34 East

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

17 South 35 East

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

17 South 36 East

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

18 South 34 East

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

18 South 35 East

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

18 South 36 East

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

88 New Mexico State Engineers Well Reports

105 USGS Well Reports

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

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

34 NMOCD - Groundwater Data

123 Tetra Tech installed temporary wells and field water level

143 NMOCD Groundwater map well location

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	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 04578		L	LE				33	17S	35E	643962	3629198*	126	60	66
L 04586		L	LE	3	3	4	33	17S	35E	644065	3628502*	125	50	75
L 04633		L	LE		2	4	33	17S	35E	644564	3629010*	130	65	65
L 04829 S5		L	LE		3	1	33	17S	35E	643347	3629400*	220	90	130
L 04880		L	LE		2	3	33	17S	35E	643757	3629002*	145	90	55
L 05834	R	L	LE	2	2	4	33	17S	35E	644663	3629109*	160	70	90
L 05834 POD5		L	LE	2	2	4	33	17S	35E	644663	3629109*	234	65	169

Average Depth to Water: **70 feet**

Minimum Depth: **50 feet**

Maximum Depth: **90 feet**

Record Count: 7

PLSS Search:

Section(s): 33 **Township:** 17S **Range:** 35E

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

Appendix C

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

August 25, 2017

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

RE: Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Dear Greg Pope:
Enclosed are the analytical results for sample(s) received by the laboratory on August 15, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,

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

Enclosures

cc: 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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE SUMMARY

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Lab ID	Sample ID	Matrix	Date Collected	Date Received
7572014001	**EVGSAU 3366-029 SB-01(0-1')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014002	**EVGSAU 3366-029 SB-01(2-3')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014003	**EVGSAU 3366-029 SB-01(4-5')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014004	**EVGSAU 3366-029 SB-01(6-7')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014005	**EVGSAU 3366-029 SB-01(9-10')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014006	**EVGSAU 3366-029 SB-01(14-15')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014007	**EVGSAU 3366-029 SB-01(19-20')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014008	**EVGSAU 3366-029 SB-01(24-25')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014009	**EVGSAU 3366-029 SB-01(29-30')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014010	**EVGSAU 3366-029 SB-01(34-35')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014011	**EVGSAU 3366-029 SB-01(39-40')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014012	**EVGSAU 3366-029 SB-01(44-45')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014013	**EVGSAU 3366-029 SB-01(49-50')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014014	**EVGSAU 3366-029 SB-01(54-55')**	Solid	08/09/17 14:00	08/15/17 08:50
7572014015	**EVGSAU 3366-029 SB-2 (0-1')**	Solid	08/09/17 15:00	08/15/17 08:50
7572014016	**EVGSAU 3366-029 SB-2(2-3')**	Solid	08/09/17 15:00	08/15/17 08:50
7572014017	**EVGSAU 3366-029 SB-2 (4-5')**	Solid	08/09/17 15:00	08/15/17 08:50
7572014018	**EVGSAU 3366-029 SB-2(6-7')**	Solid	08/09/17 15:00	08/15/17 08:50
7572014019	**EVGSAU 3366-029 SB-2(9-10')**	Solid	08/09/17 15:00	08/15/17 08:50
7572014020	**EVGSAU 3366-029 SB-2 (14-15')**	Solid	08/09/17 15:00	08/15/17 08:50
7572014021	**EVGSAU 3366-029 SB-2(19-20')**	Solid	08/08/17 15:00	08/15/17 08:50
7572014022	**EVGSAU 3366-029 SB-3 (0-1')**	Solid	08/09/17 17:00	08/15/17 08:50
7572014023	**EVGSAU 3366-029 SB-3(2-3')**	Solid	08/09/17 17:00	08/15/17 08:50
7572014024	**EVGSAU 3366-029 SB-3 (4-5')**	Solid	08/09/17 17:00	08/15/17 08:50
7572014025	**EVGSAU 3366-029 SB-3(6-7')**	Solid	08/09/17 17:00	08/15/17 08:50
7572014026	**EVGSAU 3366-029 SB-3(9-10')**	Solid	08/09/17 17:00	08/15/17 08:50
7572014027	**EVGSAU 3366-029 SB-3 (14-15')**	Solid	08/09/17 17:00	08/15/17 08:50
7572014028	**EVGSAU 3366-029 SB-3(19-20')**	Solid	08/09/17 17:00	08/15/17 08:50
7572014029	**EVGSAU 3366-029 SB-3(24-25')**	Solid	08/09/17 17:00	08/15/17 08:50

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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
7572014001	**EVGSAU 3366-029 SB-01(0-1')**	EPA 300.0	OL	1	PASI-K
7572014002	**EVGSAU 3366-029 SB-01(2-3')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014003	**EVGSAU 3366-029 SB-01(4-5')**	EPA 300.0	OL	1	PASI-K
7572014004	**EVGSAU 3366-029 SB-01(6-7')**	EPA 300.0	OL	1	PASI-K
7572014005	**EVGSAU 3366-029 SB-01(9-10')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014006	**EVGSAU 3366-029 SB-01(14-15')**	EPA 300.0	OL	1	PASI-K
7572014007	**EVGSAU 3366-029 SB-01(19-20')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014008	**EVGSAU 3366-029 SB-01(24-25')**	EPA 300.0	OL	1	PASI-K
7572014009	**EVGSAU 3366-029 SB-01(29-30')**	EPA 300.0	OL	1	PASI-K
7572014010	**EVGSAU 3366-029 SB-01(34-35')**	EPA 300.0	OL	1	PASI-K
7572014011	**EVGSAU 3366-029 SB-01(39-40')**	EPA 300.0	OL	1	PASI-K
7572014012	**EVGSAU 3366-029 SB-01(44-45')**	EPA 300.0	OL	1	PASI-K
7572014013	**EVGSAU 3366-029 SB-01(49-50')**	EPA 300.0	OL	1	PASI-K
7572014014	**EVGSAU 3366-029 SB-01(54-55')**	EPA 300.0	OL	1	PASI-K
7572014015	**EVGSAU 3366-029 SB-2 (0-1')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014016	**EVGSAU 3366-029 SB-2(2-3')**	EPA 300.0	OL	1	PASI-K
7572014017	**EVGSAU 3366-029 SB-2 (4-5')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014018	**EVGSAU 3366-029 SB-2(6-7')**	EPA 300.0	OL	1	PASI-K
7572014019	**EVGSAU 3366-029 SB-2(9-10')**	EPA 300.0	OL	1	PASI-K
7572014020	**EVGSAU 3366-029 SB-2 (14-15')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K

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

SAMPLE ANALYTE COUNT

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 300.0	OL	1	PASI-K
7572014021	**EVGSAU 3366-029 SB-2(19-20')**	EPA 300.0	OL	1	PASI-K
7572014022	**EVGSAU 3366-029 SB-3 (0-1')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014023	**EVGSAU 3366-029 SB-3(2-3')**	EPA 300.0	OL	1	PASI-K
7572014024	**EVGSAU 3366-029 SB-3 (4-5')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014025	**EVGSAU 3366-029 SB-3(6-7')**	EPA 300.0	OL	1	PASI-K
7572014026	**EVGSAU 3366-029 SB-3(9-10')**	EPA 300.0	OL	1	PASI-K
7572014027	**EVGSAU 3366-029 SB-3 (14-15')**	EPA 8015B	AJM	4	PASI-K
		EPA 8015B	JTK	2	PASI-K
		EPA 8260	JKL	7	PASI-K
		EPA 300.0	OL	1	PASI-K
7572014028	**EVGSAU 3366-029 SB-3(19-20')**	EPA 300.0	OL	1	PASI-K
7572014029	**EVGSAU 3366-029 SB-3(24-25')**	EPA 300.0	OL	1	PASI-K

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

ANALYTICAL RESULTS

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(0-1') **Lab ID: 7572014001** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**780**	mg/kg	101	10	08/18/17 11:24	08/18/17 17:18	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(2-3') **Lab ID: 7572014002** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	**432**	mg/kg	10	1	08/23/17 08:36	08/24/17 12:44		
TPH-ORO (C28-C35)	**99.2**	mg/kg	10	1	08/23/17 08:36	08/24/17 12:44		
Surrogates								
n-Tetracosane (S)	172	%	65-119	1	08/23/17 08:36	08/24/17 12:44	646-31-1	S5
p-Terphenyl (S)	74	%	41-131	1	08/23/17 08:36	08/24/17 12:44	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	08/20/17 00:00	08/21/17 20:13		
Surrogates								
4-Bromofluorobenzene (S)	95	%	64-122	1	08/20/17 00:00	08/21/17 20:13	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/22/17 20:29	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/22/17 20:29	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/22/17 20:29	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/22/17 20:29	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 20:29	2037-26-5	
4-Bromofluorobenzene (S)	106	%	87-115	1		08/22/17 20:29	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	85-115	1		08/22/17 20:29	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**470**	mg/kg	103	10	08/18/17 11:24	08/18/17 17:31	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(4-5') **Lab ID: 7572014003** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**569**	mg/kg	96.7	10	08/18/17 11:24	08/18/17 17:44	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(6-7') **Lab ID: 7572014004** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**723**	mg/kg	98.2	10	08/18/17 11:24	08/18/17 17:57	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(9-10') **Lab ID: 7572014005** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 12:53		
TPH-ORO (C28-C35)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 12:53		
Surrogates								
n-Tetracosane (S)	81	%	65-119	1	08/23/17 08:36	08/24/17 12:53	646-31-1	
p-Terphenyl (S)	80	%	41-131	1	08/23/17 08:36	08/24/17 12:53	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.0	1	08/20/17 00:00	08/21/17 20:29		
Surrogates								
4-Bromofluorobenzene (S)	96	%	64-122	1	08/20/17 00:00	08/21/17 20:29	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.5	1		08/22/17 20:45	71-43-2	
Ethylbenzene	ND	ug/kg	5.5	1		08/22/17 20:45	100-41-4	
Toluene	ND	ug/kg	5.5	1		08/22/17 20:45	108-88-3	
Xylene (Total)	ND	ug/kg	5.5	1		08/22/17 20:45	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 20:45	2037-26-5	
4-Bromofluorobenzene (S)	105	%	87-115	1		08/22/17 20:45	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	85-115	1		08/22/17 20:45	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**545**	mg/kg	109	10	08/18/17 11:24	08/18/17 18:10	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(14-15') **Lab ID: 7572014006** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**1510**	mg/kg	96.2	10	08/18/17 11:24	08/18/17 18:23	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(19-20') **Lab ID: 7572014007** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 14:09		
TPH-ORO (C28-C35)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 14:09		
Surrogates								
n-Tetracosane (S)	80	%	65-119	1	08/23/17 08:36	08/24/17 14:09	646-31-1	
p-Terphenyl (S)	79	%	41-131	1	08/23/17 08:36	08/24/17 14:09	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.7	1	08/20/17 00:00	08/21/17 20:45		
Surrogates								
4-Bromofluorobenzene (S)	94	%	64-122	1	08/20/17 00:00	08/21/17 20:45	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/22/17 21:01	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/22/17 21:01	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/22/17 21:01	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/22/17 21:01	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 21:01	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-115	1		08/22/17 21:01	460-00-4	
1,2-Dichloroethane-d4 (S)	108	%	85-115	1		08/22/17 21:01	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**686**	mg/kg	103	10	08/18/17 11:24	08/18/17 18:36	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(24-25') **Lab ID: 7572014008** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**1500**	mg/kg	98.2	10	08/18/17 11:24	08/18/17 19:14	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(29-30') **Lab ID: 7572014009** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2430**	mg/kg	195	20	08/18/17 11:24	08/19/17 09:15	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(34-35') **Lab ID: 7572014010** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2640**	mg/kg	196	20	08/18/17 11:24	08/19/17 09:28	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(39-40') **Lab ID: 7572014011** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**567**	mg/kg	101	10	08/22/17 10:47	08/22/17 10:47	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(44-45') **Lab ID: 7572014012** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**114**	mg/kg	101	10	08/22/17 13:03	08/22/17 13:03	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(49-50') **Lab ID: 7572014013** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**105**	mg/kg	97.8	10	08/22/17 13:18	08/22/17 13:18	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-01(54-55') **Lab ID: 7572014014** Collected: 08/09/17 14:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**112**	mg/kg	101	10	08/22/17 13:33	08/22/17 13:33	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2 (0-1') **Lab ID: 7572014015** Collected: 08/09/17 15:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	ND	mg/kg	33.1	1	08/23/17 08:36	08/24/17 13:12		
TPH-ORO (C28-C35)	ND	mg/kg	33.1	1	08/23/17 08:36	08/24/17 13:12		
Surrogates								
n-Tetracosane (S)	81	%	65-119	1	08/23/17 08:36	08/24/17 13:12	646-31-1	
p-Terphenyl (S)	81	%	41-131	1	08/23/17 08:36	08/24/17 13:12	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.5	1	08/20/17 00:00	08/21/17 21:01		
Surrogates								
4-Bromofluorobenzene (S)	87	%	64-122	1	08/20/17 00:00	08/21/17 21:01	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.7	1		08/22/17 21:17	71-43-2	
Ethylbenzene	ND	ug/kg	5.7	1		08/22/17 21:17	100-41-4	
Toluene	ND	ug/kg	5.7	1		08/22/17 21:17	108-88-3	
Xylene (Total)	ND	ug/kg	5.7	1		08/22/17 21:17	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 21:17	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-115	1		08/22/17 21:17	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	85-115	1		08/22/17 21:17	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**129**	mg/kg	116	10	08/22/17 13:48	08/22/17 13:48	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(2-3') **Lab ID: 7572014016** Collected: 08/09/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**291**	mg/kg	101	10	08/22/17 14:03	08/22/17 14:03	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2 (4-5') **Lab ID: 7572014017** Collected: 08/09/17 15:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	**25.4**	mg/kg	10.2	1	08/23/17 08:36	08/24/17 13:21		
TPH-ORO (C28-C35)	**33.1**	mg/kg	10.2	1	08/23/17 08:36	08/24/17 13:21		
Surrogates								
n-Tetracosane (S)	89	%	65-119	1	08/23/17 08:36	08/24/17 13:21	646-31-1	
p-Terphenyl (S)	85	%	41-131	1	08/23/17 08:36	08/24/17 13:21	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.6	1	08/20/17 00:00	08/21/17 21:48		
Surrogates								
4-Bromofluorobenzene (S)	94	%	64-122	1	08/20/17 00:00	08/21/17 21:48	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.3	1		08/22/17 21:33	71-43-2	
Ethylbenzene	ND	ug/kg	5.3	1		08/22/17 21:33	100-41-4	
Toluene	ND	ug/kg	5.3	1		08/22/17 21:33	108-88-3	
Xylene (Total)	ND	ug/kg	5.3	1		08/22/17 21:33	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	87-112	1		08/22/17 21:33	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-115	1		08/22/17 21:33	460-00-4	
1,2-Dichloroethane-d4 (S)	106	%	85-115	1		08/22/17 21:33	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**208**	mg/kg	103	10	08/22/17 15:31	08/22/17 15:31	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(6-7') **Lab ID: 7572014018** Collected: 08/09/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**245**	mg/kg	96.5	10	08/22/17 15:46	08/22/17 15:46	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(9-10') **Lab ID: 7572014019** Collected: 08/09/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**160**	mg/kg	98.8	10	08/22/17 16:02	08/22/17 16:02	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2 (14-15') **Lab ID: 7572014020** Collected: 08/09/17 15:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	ND	mg/kg	9.8	1	08/23/17 08:36	08/24/17 13:31		
TPH-ORO (C28-C35)	ND	mg/kg	9.8	1	08/23/17 08:36	08/24/17 13:31		
Surrogates								
n-Tetracosane (S)	76	%	65-119	1	08/23/17 08:36	08/24/17 13:31	646-31-1	
p-Terphenyl (S)	79	%	41-131	1	08/23/17 08:36	08/24/17 13:31	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.3	1	08/20/17 00:00	08/21/17 22:04		
Surrogates								
4-Bromofluorobenzene (S)	97	%	64-122	1	08/20/17 00:00	08/21/17 22:04	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.2	1		08/22/17 21:49	71-43-2	
Ethylbenzene	ND	ug/kg	5.2	1		08/22/17 21:49	100-41-4	
Toluene	ND	ug/kg	5.2	1		08/22/17 21:49	108-88-3	
Xylene (Total)	ND	ug/kg	5.2	1		08/22/17 21:49	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 21:49	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-115	1		08/22/17 21:49	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	85-115	1		08/22/17 21:49	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**107**	mg/kg	104	10	08/22/17 16:17	08/22/17 16:17	16887-00-6	M1

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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-2(19-20') **Lab ID: 7572014021** Collected: 08/08/17 15:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**111**	mg/kg	99.2	10	08/22/17 17:17	08/22/17 17:17	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3 (0-1') **Lab ID: 7572014022** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	ND	mg/kg	12.3	1	08/23/17 08:36	08/24/17 13:40		
TPH-ORO (C28-C35)	ND	mg/kg	12.3	1	08/23/17 08:36	08/24/17 13:40		
Surrogates								
n-Tetracosane (S)	68	%	65-119	1	08/23/17 08:36	08/24/17 13:40	646-31-1	
p-Terphenyl (S)	70	%	41-131	1	08/23/17 08:36	08/24/17 13:40	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	12.7	1	08/20/17 00:00	08/21/17 22:20		
Surrogates								
4-Bromofluorobenzene (S)	95	%	64-122	1	08/20/17 00:00	08/21/17 22:20	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	6.2	1		08/22/17 22:05	71-43-2	
Ethylbenzene	ND	ug/kg	6.2	1		08/22/17 22:05	100-41-4	
Toluene	ND	ug/kg	6.2	1		08/22/17 22:05	108-88-3	
Xylene (Total)	ND	ug/kg	6.2	1		08/22/17 22:05	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	87-112	1		08/22/17 22:05	2037-26-5	
4-Bromofluorobenzene (S)	102	%	87-115	1		08/22/17 22:05	460-00-4	
1,2-Dichloroethane-d4 (S)	109	%	85-115	1		08/22/17 22:05	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2080**	mg/kg	122	10	08/22/17 17:32	08/22/17 17:32	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(2-3') **Lab ID: 7572014023** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**487**	mg/kg	97.3	10	08/22/17 17:47	08/22/17 17:47	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3 (4-5') **Lab ID: 7572014024** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 13:50		
TPH-ORO (C28-C35)	ND	mg/kg	10.8	1	08/23/17 08:36	08/24/17 13:50		
Surrogates								
n-Tetracosane (S)	74	%	65-119	1	08/23/17 08:36	08/24/17 13:50	646-31-1	
p-Terphenyl (S)	74	%	41-131	1	08/23/17 08:36	08/24/17 13:50	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	11.0	1	08/20/17 00:00	08/21/17 22:36		
Surrogates								
4-Bromofluorobenzene (S)	96	%	64-122	1	08/20/17 00:00	08/21/17 22:36	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.4	1		08/22/17 22:21	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		08/22/17 22:21	100-41-4	
Toluene	ND	ug/kg	5.4	1		08/22/17 22:21	108-88-3	
Xylene (Total)	ND	ug/kg	5.4	1		08/22/17 22:21	1330-20-7	
Surrogates								
Toluene-d8 (S)	99	%	87-112	1		08/22/17 22:21	2037-26-5	
4-Bromofluorobenzene (S)	103	%	87-115	1		08/22/17 22:21	460-00-4	
1,2-Dichloroethane-d4 (S)	110	%	85-115	1		08/22/17 22:21	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**2180**	mg/kg	216	20	08/22/17 08:00	08/23/17 16:36	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(6-7') **Lab ID: 7572014025** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**1350**	mg/kg	101	10	08/22/17 18:18	08/22/17 18:18	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(9-10') **Lab ID: 7572014026** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**672**	mg/kg	96.9	10	08/22/17 18:33	08/22/17 18:33	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3 (14-15') **Lab ID: 7572014027** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 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							
TPH-DRO (C10-C28)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 13:59		
TPH-ORO (C28-C35)	ND	mg/kg	10.5	1	08/23/17 08:36	08/24/17 13:59		
Surrogates								
n-Tetracosane (S)	84	%	65-119	1	08/23/17 08:36	08/24/17 13:59	646-31-1	
p-Terphenyl (S)	85	%	41-131	1	08/23/17 08:36	08/24/17 13:59	92-94-4	
Gasoline Range Organics	Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B							
TPH-GRO	ND	mg/kg	10.7	1	08/23/17 00:00	08/23/17 14:32		
Surrogates								
4-Bromofluorobenzene (S)	100	%	64-122	1	08/23/17 00:00	08/23/17 14:32	460-00-4	
8260/5035A Volatile Organics	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	5.4	1		08/22/17 22:37	71-43-2	
Ethylbenzene	ND	ug/kg	5.4	1		08/22/17 22:37	100-41-4	
Toluene	ND	ug/kg	5.4	1		08/22/17 22:37	108-88-3	
Xylene (Total)	ND	ug/kg	5.4	1		08/22/17 22:37	1330-20-7	
Surrogates								
Toluene-d8 (S)	100	%	87-112	1		08/22/17 22:37	2037-26-5	
4-Bromofluorobenzene (S)	104	%	87-115	1		08/22/17 22:37	460-00-4	
1,2-Dichloroethane-d4 (S)	107	%	85-115	1		08/22/17 22:37	17060-07-0	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**425**	mg/kg	103	10	08/22/17 18:48	08/22/17 18:48	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(19-20') **Lab ID: 7572014028** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**131**	mg/kg	98.8	10	08/22/17 19:03	08/22/17 19:03	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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Sample: EVGSAU 3366-029 SB-3(24-25') **Lab ID: 7572014029** Collected: 08/09/17 17:00 Received: 08/15/17 08:50 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Preparation Method: EPA 300.0							
Chloride	**108**	mg/kg	97.7	10	08/22/17 19:18	08/22/17 19:18	16887-00-6	

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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

QC Batch: 490632 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024

METHOD BLANK: 2008512 Matrix: Solid
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/21/17 15:45	
4-Bromofluorobenzene (S)	%	112	64-122	08/21/17 15:45	

LABORATORY CONTROL SAMPLE: 2008513

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	48.4	97	85-130	
4-Bromofluorobenzene (S)	%			109	64-122	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2008514 2008515

Parameter	Units	7572002014 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	56	56	58.0	56.0	102	98	85-125	4	12	
4-Bromofluorobenzene (S)	%						101	87	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
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

QC Batch: 491143 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Associated Lab Samples: 7572014027

METHOD BLANK: 2010285 Matrix: Solid
Associated Lab Samples: 7572014027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-GRO	mg/kg	ND	10.0	08/23/17 11:22	
4-Bromofluorobenzene (S)	%	110	64-122	08/23/17 11:22	

LABORATORY CONTROL SAMPLE: 2010286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	51.7	103	85-130	
4-Bromofluorobenzene (S)	%			105	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
400 West Bethany Drive - Suite 190
Allen, TX 75013
(972)727-1123

QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

QC Batch: 490867 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

METHOD BLANK: 2009313 Matrix: Solid
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Benzene	ug/kg	ND	5.0	08/22/17 18:03	
Ethylbenzene	ug/kg	ND	5.0	08/22/17 18:03	
Toluene	ug/kg	ND	5.0	08/22/17 18:03	
Xylene (Total)	ug/kg	ND	5.0	08/22/17 18:03	
1,2-Dichloroethane-d4 (S)	%	105	85-115	08/22/17 18:03	
4-Bromofluorobenzene (S)	%	104	87-115	08/22/17 18:03	
Toluene-d8 (S)	%	101	87-112	08/22/17 18:03	

LABORATORY CONTROL SAMPLE: 2009314

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Benzene	ug/kg	100	87.6	88	81-115	
Ethylbenzene	ug/kg	100	82.4	82	76-119	
Toluene	ug/kg	100	84.1	84	77-116	
Xylene (Total)	ug/kg	300	247	82	76-121	
1,2-Dichloroethane-d4 (S)	%			109	85-115	
4-Bromofluorobenzene (S)	%			105	87-115	
Toluene-d8 (S)	%			101	87-112	

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

QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

QC Batch: 491042 Analysis Method: EPA 8015B
QC Batch Method: EPA 3546 Analysis Description: EPA 8015B
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

METHOD BLANK: 2009940 Matrix: Solid
Associated Lab Samples: 7572014002, 7572014005, 7572014007, 7572014015, 7572014017, 7572014020, 7572014022, 7572014024, 7572014027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.8	08/24/17 10:12	
TPH-ORO (C28-C35)	mg/kg	ND	9.8	08/24/17 10:12	
n-Tetracosane (S)	%	92	65-119	08/24/17 10:12	
p-Terphenyl (S)	%	92	41-131	08/24/17 10:12	

LABORATORY CONTROL SAMPLE: 2009941

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	80.9	72.7	90	80-112	
n-Tetracosane (S)	%			86	65-119	
p-Terphenyl (S)	%			85	41-131	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2009942 2009943

Parameter	Units	7572007029 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	212	92.9	95.5	361	208	161	-4	10-180	54	39	M1,R1
n-Tetracosane (S)	%						106	79	65-119		58	
p-Terphenyl (S)	%						97	77	41-131		56	

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

QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

QC Batch: 490442 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7572014001, 7572014002, 7572014003, 7572014004, 7572014005, 7572014006, 7572014007, 7572014008, 7572014009, 7572014010

METHOD BLANK: 2007674 Matrix: Solid
Associated Lab Samples: 7572014001, 7572014002, 7572014003, 7572014004, 7572014005, 7572014006, 7572014007, 7572014008, 7572014009, 7572014010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/19/17 08:23	

LABORATORY CONTROL SAMPLE: 2007675

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	485	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2007676 2007677

Parameter	Units	7572004016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	ND	585	590	559	ND	89	3	80-120		15	M1

MATRIX SPIKE SAMPLE: 2007678

Parameter	Units	7572004025 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	ND	687	139	5	80-120	M1

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

QUALITY CONTROL DATA

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

QC Batch: 490485 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 7572014011, 7572014012, 7572014013, 7572014014, 7572014015, 7572014016, 7572014017, 7572014018, 7572014019, 7572014020, 7572014021, 7572014022, 7572014023, 7572014024, 7572014025, 7572014026, 7572014027, 7572014028, 7572014029

METHOD BLANK: 2007886 Matrix: Solid
Associated Lab Samples: 7572014011, 7572014012, 7572014013, 7572014014, 7572014015, 7572014016, 7572014017, 7572014018, 7572014019, 7572014020, 7572014021, 7572014022, 7572014023, 7572014024, 7572014025, 7572014026, 7572014027, 7572014028, 7572014029

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chloride	mg/kg	ND	100	08/23/17 15:50	

LABORATORY CONTROL SAMPLE: 2007887

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	500	476	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2007888 2007889

Parameter	Units	7572014011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/kg	567	506	499	1040	1040	94	95	80-120	0	15	

MATRIX SPIKE SAMPLE: 2007890

Parameter	Units	7572014020 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/kg	107	504	139	6	80-120	M1

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

QUALIFIERS

Project: 212C-MD-00938/EVGSAU 3366-029
Pace Project No.: 7572014

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The Nelac Institute

LABORATORIES

PASI-K	Pace Analytical Services - Kansas City

BATCH QUALIFIERS

Batch: 490996

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: 491374

[M5]	A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.
S5	Surrogate recovery outside control limits due to matrix interferences (not confirmed by re-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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 3546	491042	EPA 8015B	491258
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 3546	491042	EPA 8015B	491258
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 3546	491042	EPA 8015B	491258
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 3546	491042	EPA 8015B	491258
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 3546	491042	EPA 8015B	491258
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 3546	491042	EPA 8015B	491258
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 3546	491042	EPA 8015B	491258
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 3546	491042	EPA 8015B	491258
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 3546	491042	EPA 8015B	491258
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 5035A/5030B	490632	EPA 8015B	490997
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 5035A/5030B	491143	EPA 8015B	491374
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 8260	490867		
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 8260	490867		
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 8260	490867		
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 8260	490867		
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 8260	490867		
7572014020	EVGSAU 3366-029 SB-2 (14-15')	EPA 8260	490867		
7572014022	EVGSAU 3366-029 SB-3 (0-1')	EPA 8260	490867		
7572014024	EVGSAU 3366-029 SB-3 (4-5')	EPA 8260	490867		
7572014027	EVGSAU 3366-029 SB-3 (14-15')	EPA 8260	490867		
7572014001	EVGSAU 3366-029 SB-01(0-1')	EPA 300.0	490442	EPA 300.0	490562
7572014002	EVGSAU 3366-029 SB-01(2-3')	EPA 300.0	490442	EPA 300.0	490562
7572014003	EVGSAU 3366-029 SB-01(4-5')	EPA 300.0	490442	EPA 300.0	490562
7572014004	EVGSAU 3366-029 SB-01(6-7')	EPA 300.0	490442	EPA 300.0	490562
7572014005	EVGSAU 3366-029 SB-01(9-10')	EPA 300.0	490442	EPA 300.0	490562
7572014006	EVGSAU 3366-029 SB-01(14-15')	EPA 300.0	490442	EPA 300.0	490562
7572014007	EVGSAU 3366-029 SB-01(19-20')	EPA 300.0	490442	EPA 300.0	490562
7572014008	EVGSAU 3366-029 SB-01(24-25')	EPA 300.0	490442	EPA 300.0	490562
7572014009	EVGSAU 3366-029 SB-01(29-30')	EPA 300.0	490442	EPA 300.0	490573
7572014010	EVGSAU 3366-029 SB-01(34-35')	EPA 300.0	490442	EPA 300.0	490573
7572014011	EVGSAU 3366-029 SB-01(39-40')	EPA 300.0	490485	EPA 300.0	491036
7572014012	EVGSAU 3366-029 SB-01(44-45')	EPA 300.0	490485	EPA 300.0	491036
7572014013	EVGSAU 3366-029 SB-01(49-50')	EPA 300.0	490485	EPA 300.0	491036
7572014014	EVGSAU 3366-029 SB-01(54-55')	EPA 300.0	490485	EPA 300.0	491036
7572014015	EVGSAU 3366-029 SB-2 (0-1')	EPA 300.0	490485	EPA 300.0	491036
7572014016	EVGSAU 3366-029 SB-2(2-3')	EPA 300.0	490485	EPA 300.0	491036
7572014017	EVGSAU 3366-029 SB-2 (4-5')	EPA 300.0	490485	EPA 300.0	491036
7572014018	EVGSAU 3366-029 SB-2(6-7')	EPA 300.0	490485	EPA 300.0	491036
7572014019	EVGSAU 3366-029 SB-2(9-10')	EPA 300.0	490485	EPA 300.0	491036

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-00938/EVGSAU 3366-029
Pace Project No.: 7572014

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
7572014020	**EVGSAU 3366-029 SB-2 (14-15')**	EPA 300.0	490485	EPA 300.0	491036
7572014021	**EVGSAU 3366-029 SB-2(19-20')**	EPA 300.0	490485	EPA 300.0	491036
7572014022	**EVGSAU 3366-029 SB-3 (0-1')**	EPA 300.0	490485	EPA 300.0	491036
7572014023	**EVGSAU 3366-029 SB-3(2-3')**	EPA 300.0	490485	EPA 300.0	491036
7572014024	**EVGSAU 3366-029 SB-3 (4-5')**	EPA 300.0	490485	EPA 300.0	491104
7572014025	**EVGSAU 3366-029 SB-3(6-7')**	EPA 300.0	490485	EPA 300.0	491036
7572014026	**EVGSAU 3366-029 SB-3(9-10')**	EPA 300.0	490485	EPA 300.0	491036
7572014027	**EVGSAU 3366-029 SB-3 (14-15')**	EPA 300.0	490485	EPA 300.0	491036
7572014028	**EVGSAU 3366-029 SB-3(19-20')**	EPA 300.0	490485	EPA 300.0	491036
7572014029	**EVGSAU 3366-029 SB-3(24-25')**	EPA 300.0	490485	EPA 300.0	491036

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#: 7572014

7572014

Client Name: Tetra Tech Project Work order:

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

Tracking#: 7420 8979 1910 / 7420 8979 1909

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

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

Thermometer Used: IR-154 Type of Ice: Wet ☑ Blue ☐ None ☐ Sample Received on ice, cooling process has begun ☑

Cooler Temp °C: 4.3, 4.0 (Recorded) 0.2 (Correction Factor) 4.5, 4.2 (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: SOLID	Yes ☑ No ☑ NA ☐	13 samples 22-29 do not match
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 TX

Client Notification/Resolution/Comments:

Person Contacted:_____ Date:_____

Comments/Resolution:_____

Person Examining Contents: [illegible] Date: 8/15/17 Project Manager Review: MM

7572014

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: Conoco Phillips	**Site Manager:** Ike Tavarez
Project Name: EVGSAU 3366-029	
Project Location: (county, state) Lea Co NM	**Project #:** 212C-MD-00938
Invoice to:	
Receiving Laboratory: Pace Analytical	**Sampler Signature:** Clint Merritt

Comments: If TPH exceeds 1,000 mg/kg, run deeper sample. If Benzene exceeds 10mg/kg or total BTEX exceeds 50 mg/kg, run deeper sample

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING YEAR: DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
001	EVGSAU 3366-029 SB-1 (0-1')	8/9/2017	14:00		X				X			1																X								
002	EVGSAU 3366-029 SB-1 (2'-3')	8/9/2017	14:00		X				X			1		X		X												X								
003	EVGSAU 3366-029 SB-1 (4'-5')	8/9/2017	14:00		X				X			1																X								
004	EVGSAU 3366-029 SB-1 (6'-7')	8/9/2017	14:00		X				X			1																X								
005	EVGSAU 3366-029 SB-1 (9'-10')	8/9/2017	14:00		X				X			1		X		X												X								
006	EVGSAU 3366-029 SB-1 (14-15')	8/9/2017	14:00		X				X			1																X								
007	EVGSAU 3366-029 SB-1 (19-20')	8/9/2017	14:00		X				X			1		X		X												X								
008	EVGSAU 3366-029 SB-1 (24'-25')	8/9/2017	14:00		X				X			1																X								
009	EVGSAU 3366-029 SB-1 (29'-30')	8/9/2017	14:00		X				X			1																X								
010	EVGSAU 3366-029 SB-1 (34'-35')	8/9/2017	14:00		X				X			1																X								

Relinquished by: Clint Merritt	Date: 8/14/17	Time: 17:00	Received by:	Date: 8/15/17	Time: 0750
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature

4.2, 4.5

REMARKS:

☐ RUSH: Same Day 24 hr 48 hr 72 hr

☐ Rush Charges Authorized

☐ Special Report Limits or TRRP Report

(Circle) HAND DELIVERED ~~FEDEX~~ UPS Tracking #: 7420 8979 1910
7420 8979 1909

ORIGINAL COPY

7572014

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: Conoco Phillips	**Site Manager:** Ike Tavarez
Project Name: EVGSAU 3366-029	
Project Location: (county, state) Lea Co NM	**Project #:** 212C-MD-00938
Invoice to:	
Receiving Laboratory: Pace Analytical	**Sampler Signature:** Clint Merritt

Comments: If TPH exceeds 1,000 mg/kg, run deeper sample. If Benzene exceeds 10mg/kg or total BTEX exceeds 50 mg/kg, run deeper sample

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX: WATER	MATRIX: SOIL	MATRIX:	PRESERVATIVE METHOD: HCL	PRESERVATIVE METHOD: HNO_3	PRESERVATIVE METHOD: ICE	PRESERVATIVE METHOD:	PRESERVATIVE METHOD:	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance					Hold
011	EVGSAU 3366-029 SB-1 (39'-40')	8/9/2017	14:00		X				X			1																X								
012	EVGSAU 3366-029 SB-1 (44'-45')	8/9/2017	14:00		X				X			1																X								
013	EVGSAU 3366-029 SB-1 (49'-50')	8/9/2017	14:00		X				X			1																X								
014	EVGSAU 3366-029 SB-1 (54'-55')	8/9/2017	14:00		X				X			1																X								
015	EVGSAU 3366-029 SB-2 (0-1')	8/9/2017	15:00		X				X			1		X		X												X								
016	EVGSAU 3366-029 SB-2 (2'-3')	8/9/2017	15:00		X				X			1																X								
017	EVGSAU 3366-029 SB-2 (4'-5')	8/9/2017	15:00		X				X			1		X		X												X								
018	EVGSAU 3366-029 SB-2 (6'-7')	8/9/2017	15:00		X				X			1																X								
019	EVGSAU 3366-029 SB-2 (9'-10')	8/9/2017	15:00		X				X			1																X								
020	EVGSAU 3366-029 SB-2 (14-15')	8/9/2017	15:00		X				X			1		X		X												X								

Relinquished by: Clint Merritt	Date: 8/14/17	Time: 17:00	Received by:	Date:	Time: 8/15/17 0850
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature: 4.2, 4.5

REMARKS:

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

(Circle) HAND DELIVERED (FEDEX) UPS Tracking #: 7420 8979 1910
7420 8979 1909

ORIGINAL COPY

7572014

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: Conoco Phillips	**Site Manager:** Ike Tavarez
Project Name: EVGSAU 3366-029	
Project Location: (county, state) Lea Co NM	**Project #:** 212C-MD-00938
Invoice to:	
Receiving Laboratory: Pace Analytical	**Sampler Signature:** Clint Merritt

Comments: If TPH exceeds 1,000 mg/kg, run deeper sample. If Benzene exceeds 10mg/kg or total BTEX exceeds 50 mg/kg, run deeper sample

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	SAMPLE IDENTIFICATION	SAMPLING DATE	SAMPLING TIME	MATRIX WATER	MATRIX SOIL	MATRIX	PRESERVATIVE METHOD HCL	PRESERVATIVE METHOD HNO_3	PRESERVATIVE METHOD ICE	PRESERVATIVE METHOD	PRESERVATIVE METHOD	# CONTAINERS	FILTERED (Y/N)	BTEX 8021B BTEX 8260B	TPH TX1005 (Ext to C35)	TPH 8015M (GRO - DRO - ORO - MRO)	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C/625	PCB's 8082 / 608	NORM	PLM (Asbestos)	Chloride	Chloride Sulfate TDS	General Water Chemistry (see attached list)	Anion/Cation Balance				Hold
021	EVGSAU 3366-029 SB-2 (19'-20')	8/8/2017	15:00		X				X			1																X							
022	EVGSAU 3366-029 SB~~2~~3 (0-1') *	8/9/2017	17:00		X				X			1		X		X												X							
023	EVGSAU 3366-029 SB~~2~~3 (2'-3')	8/9/2017	17:00		X				X			1																X							
024	EVGSAU 3366-029 SB~~2~~3 (4'-5')	8/9/2017	17:00		X				X			1		X		X												X							
025	EVGSAU 3366-029 SB~~2~~3 (6'-7')	8/9/2017	17:00		X				X			1																X							
026	EVGSAU 3366-029 SB~~2~~3 (9'-10')	8/9/2017	17:00		X				X			1																X							
027	EVGSAU 3366-029 SB~~2~~3 (14'-15')	8/9/2017	17:00		X				X			1		X		X												X							
028	EVGSAU 3366-029 SB~~2~~3 (19'-20')	8/9/2017	17:00		X				X			1																X							
029	EVGSAU 3366-029 SB~~2~~3 (24'-25')	8/9/2017	17:00		X				X			1																X							
																												X							

Relinquished by: Clint Merritt	Date: 8/14/17	Time: 17:00	Received by: Pace	Date: 8/15/17	Time: 0850
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:

LAB USE ONLY

Sample Temperature: 4.2, 4.5

REMARKS:

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

(Circle) HAND DELIVERED (FEDEX) UPS Tracking #: 7420 8979 1910
7420 8979 1909

* corrected ID's to SB-3 per Greg Pope 8-16-17

ORIGINAL COPY

Appendix D

Lea County, New Mexico

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

Map Unit Setting

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

Map Unit Composition

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

Description of Kimbrough

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

Land capability classification (irrigated): None specified

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

Description of Lea

Setting

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

Typical profile

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

Properties and qualities

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

Interpretive groups

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

Minor Components

Kenhill

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

Douro

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

Spraberry

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

Data Source Information

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

NMSLO Seed Mix — Shallow (SH)

SHALLOW (SH) SITES SEED MIXTURE:

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

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

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