

SITE INFORMATION

Report Type: Work Plan 1RP No. 4202

General Site Information:

| | | | | | | | |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|--------------|--|--|--|
| Site: | EVGSAU Injection 4 Header | | | | | | |
| Company: | ConocoPhillips | | | | | | |
| Section, Township and Range | | Sec. 33 | T 17S | R 35E | | | |
| Lease Number: | API No. 30-025-34025 | | | | | | |
| County: | Lea | | | | | | |
| Release GPS: | 32.796871°N | | | 103.471310°W | | | |
| Surface Owner: | State | | | | | | |
| Mineral Owner: | | | | | | | |
| Directions: | From the intersection of HWY 238 and Buckeye Road in Maljamar, travel east 1.7 miles. Turn right (south) and travel <150 feet. Turn left (east) and travel 0.17 miles to fork. Take the left (east) for and travel <0.1 miles to the site. | | | | | | |
| | | | | | | | |
| | | | | | | | |

Release Data:

| | |
|---------------------------------|-------------------------|
| Date Released: | 2/26/2016 |
| Type Release: | Produced Water |
| Source of Contamination: | Failed fiberglass swage |
| Fluid Released: | 141 bbls |
| Fluids Recovered: | 95 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@tetrach.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

APPROVED

By Olivia Yu at 4:20 pm, Mar 12, 2018

March 6, 2018

NMOCD approves of the delineation completed for 1RP-4202 and the proposed remediation with one condition: bottom and sidewall confirmation samples approximately 75 ft. interval.

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 Injection 4 Header, Section 33, Township 17S, Range 35E, Lea County, New Mexico, 1RP No. 4202

Ms. Yu:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips Company (Conoco) to assess a release that occurred at the EVGSAU Injection 4 Header (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 32.796871°, W 103.471310°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report for 1RP#4202, the leak was discovered on February 26, 2016, and released 141 barrels of produced water due to a failed fiberglass swage at the header. Emergency response action included isolating the header and removing approximately 400 yards of wet soil. As a result, approximately ninety-five (95) barrels of produced water were recovered, leaving approximately forty-six (46) barrels unrecovered. 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 located within 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 NMOSE 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.

Previous Soil Assessment and Analytical Results

Prior to Tetra Tech's soil investigation, Conoco conducted an initial soil sampling of eleven (11) verticals in the spill area in March 2017 and depicted on Figure 3. However, the data provided to Tetra Tech was limited. The soil sampling results are summarized in Table 1. Referring to Table 1, none of the BTEX and TPH samples were reported above laboratory detection limits and the chloride concentrations detected ranging from 64 mg/kg to 560 mg/kg. According to the NMOCD correspondence, they requested additional samples be collected from the areas of Verticals (3, 6, 8 and 11) to either define extents or to confirm the concentrations detected from the initial evaluation.

Soil Assessment and Analytical Results

On August 17, 2017, Tetra Tech personnel and subcontractor were onsite to advance three (3) soil boring (SB-1 through SB-3, Figure 3) to approximately fifteen (15) feet below ground surface to assess and define the extents. A soil boring was not installed in the area of Vertical 11 due to a drilling rig that was present on the pad during the drilling of the soil borings. Soil samples were collected and field screened for chlorides and organic vapors with a PID. Selected samples were analyzed for TPH by EPA method 8015B modified and BTEX by EPA Method 8260. Soil samples from every interval were analyzed for chloride by EPA method 300.0.

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 constituents were not reported above laboratory detection limits. The total TPH did not exceed the RRAL of 1,000 mg/kg in any of the samples, with the highest total TPH concentration was 101.2 mg/kg in sample SB-1 0-6". Chlorides were concentrated in the shallow soil from 0-6" (inches) and declined with depth in majority of the samples at 1.0' below surface.

Work Plan

Based on the results, ConocoPhillips proposes to remove the impacted material as highlighted (green) in Table 2 and shown on Figure 4. Based on the analytical data, ConocoPhillips proposes to scrape the top six (6) inches of soil to remove the elevated



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chlorides. Once excavated, 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 safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns for onsite personnel. As shown on Figure 4, proposed excavation areas are located around multiple lines and if there is a safety concern, these areas will not be excavated. However, 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 assessment or the proposed remediation activities for this site, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

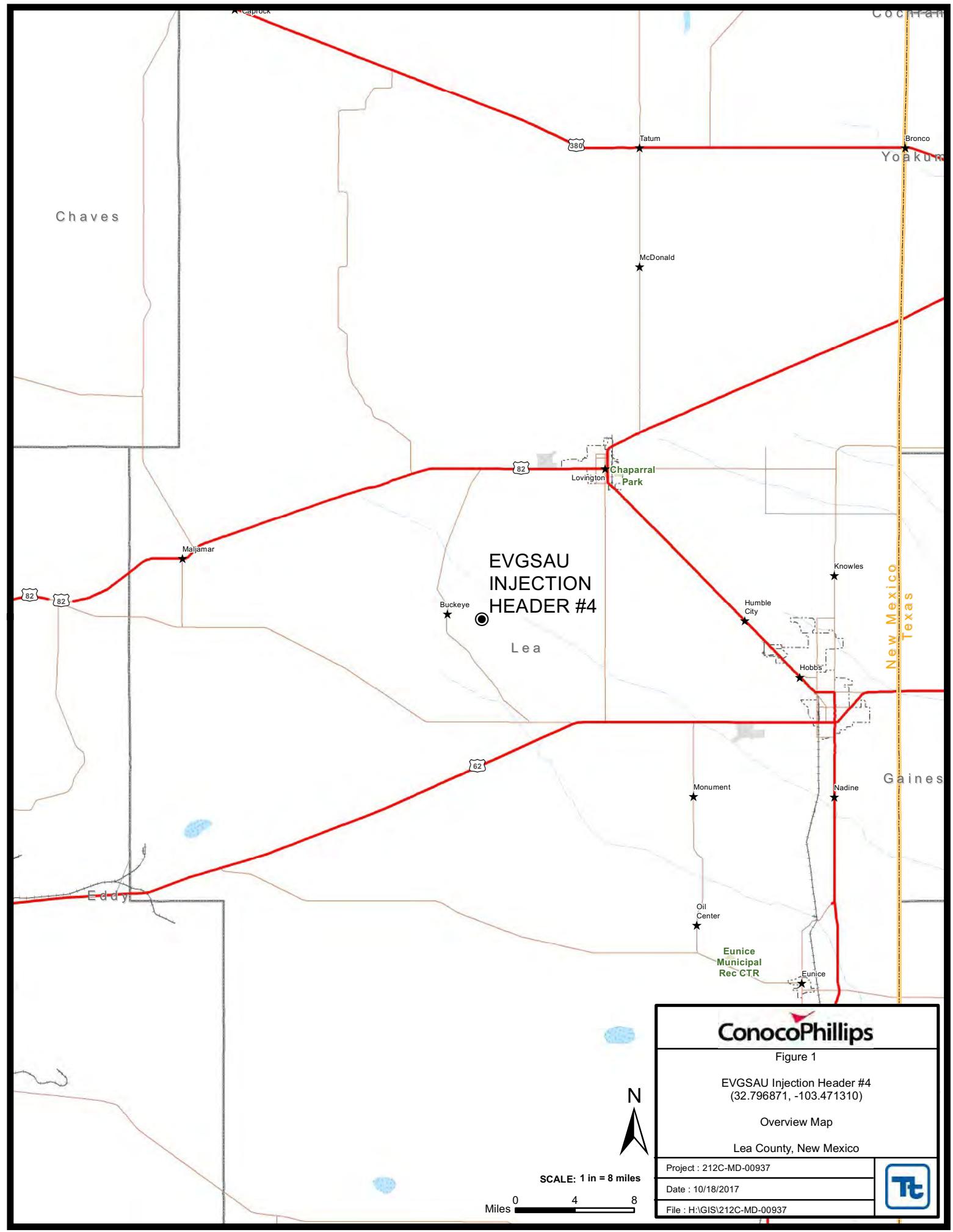
A handwritten signature in black ink that reads "Todd Wells".

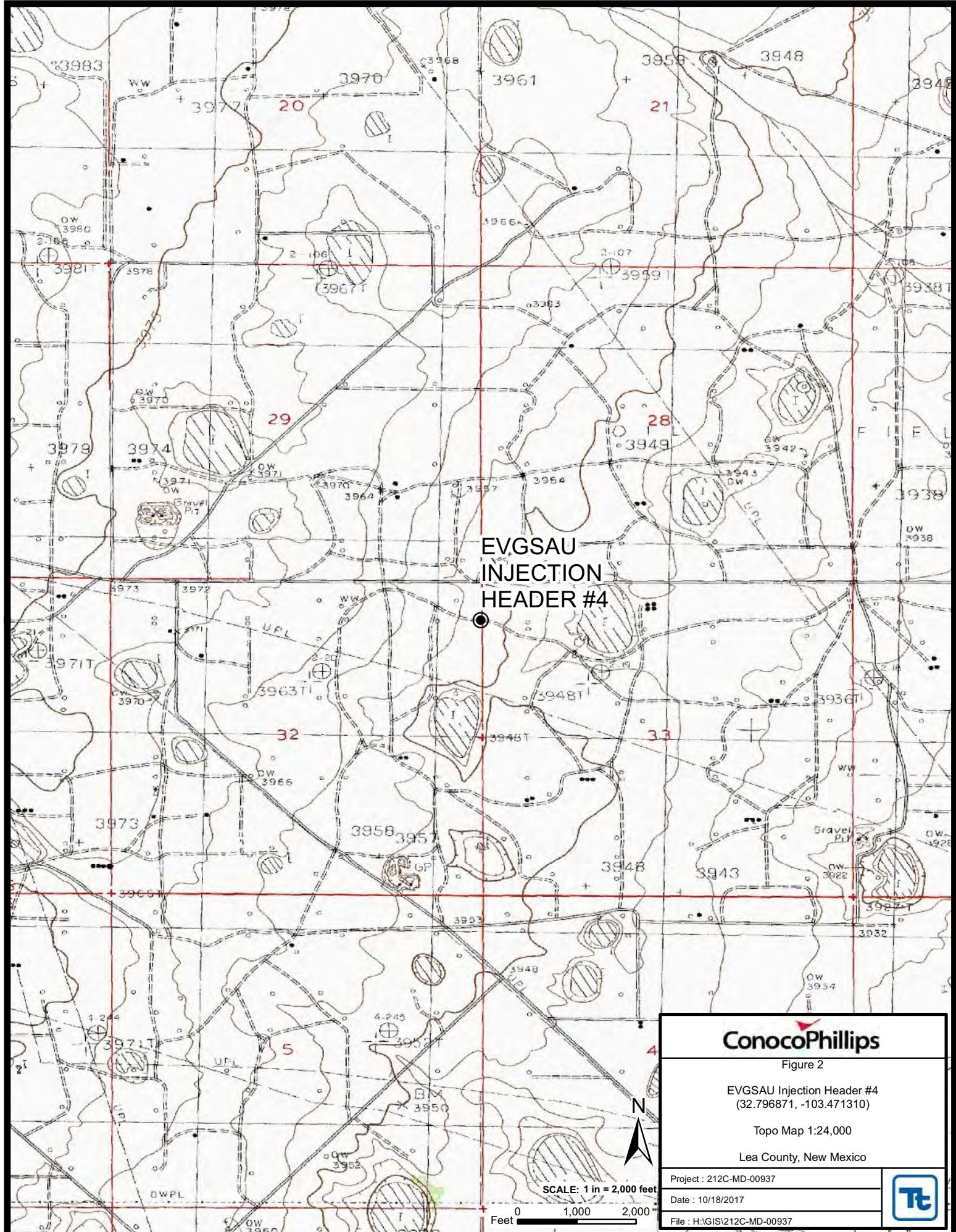
Todd Wells,
Project Manager

A handwritten signature in black ink that reads "Greg W. Pope, P.G.".
A second handwritten signature in black ink that appears to be the same as the first, reading "Greg W. Pope, P.G.".

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

Figures





ConocoPhillips

Figure 2

EVGSAU Injection Header #4
(32.796871, -103.471310)

Topo Map 1:24,000

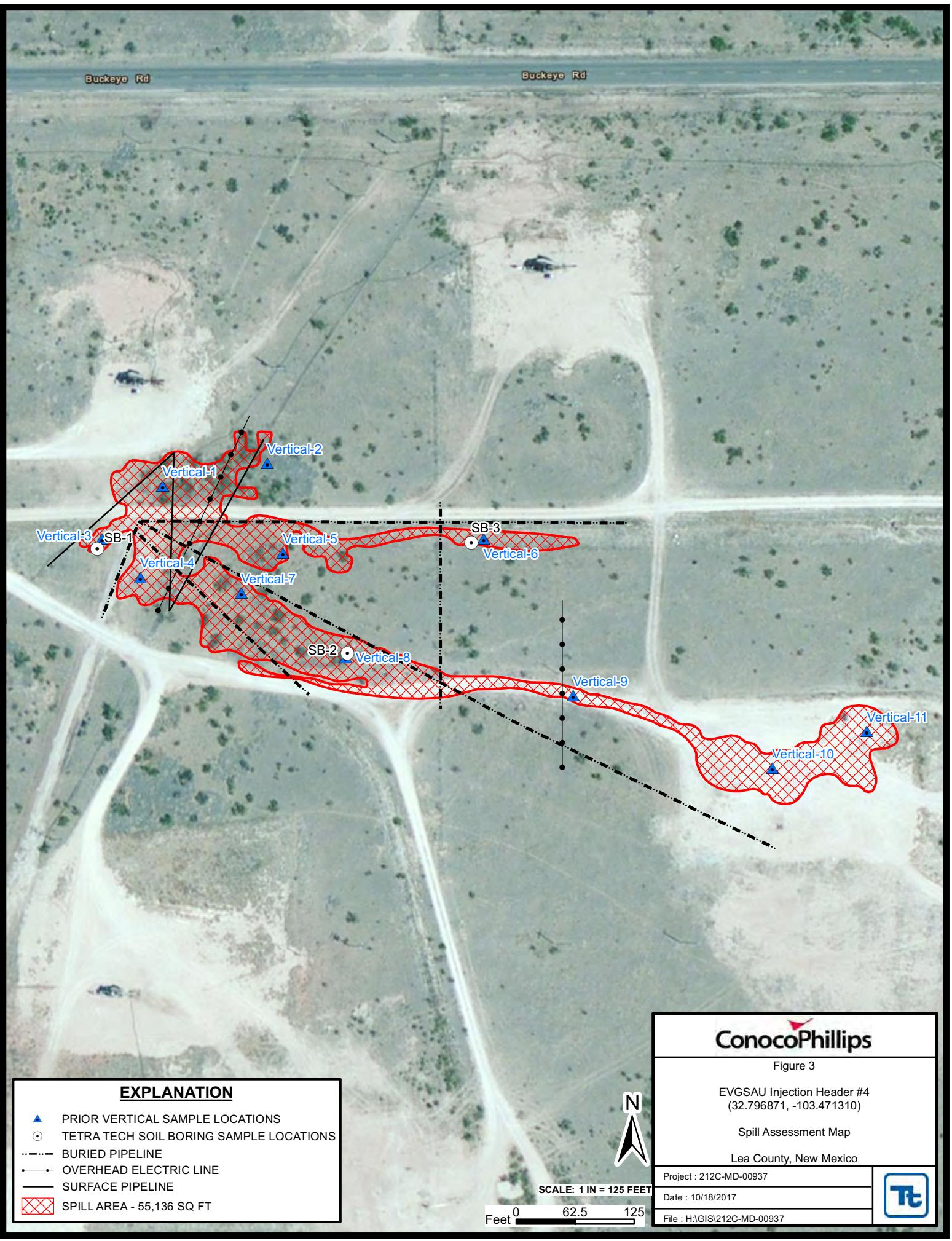
Lea County, New Mexico

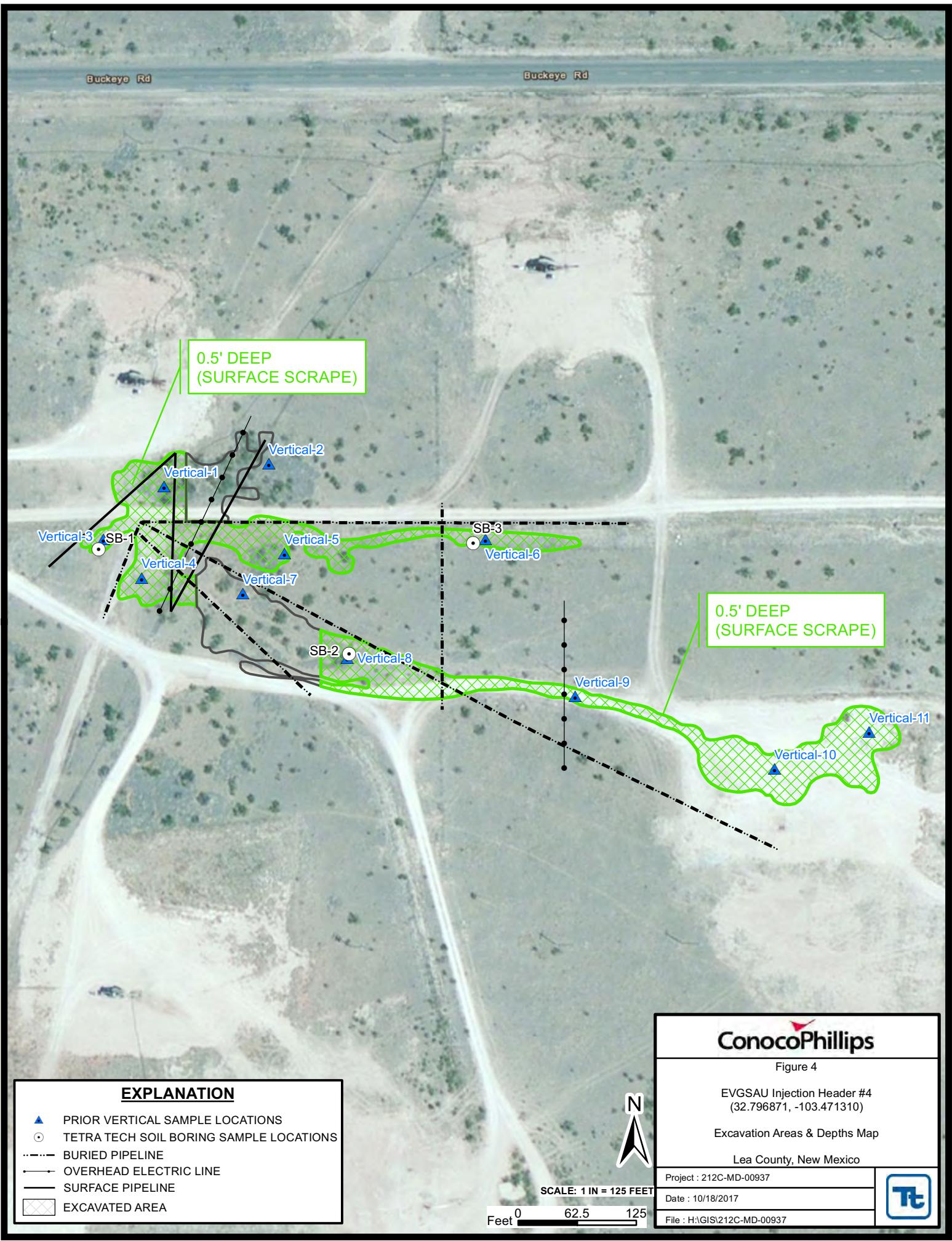
Project : 212C-MD-00937

Date : 10/18/2017

File : H:\GIS\212C-MD-00937







Tables

Table 1
ConocoPhillips
Injection Header 4
Verticals Installed by Conoco
Lea County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | Field PID (PPM) | TPH | | | BTEX | | | Chlorides | | | |
|------------|-------------|-------------------|-----------------|---------------|---------------|-----------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------------|-------------------|
| | | | | TPH GRO mg/kg | TPH DRO mg/kg | Total TPH mg/kg | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | Field Chlorides (PPM) | Chlorides (mg/kg) |
| Vertical 1 | 03/07/16 | 0.5 | 1.1 | ND | - | 0.0 | - | - | - | - | - | 8,414 | - |
| | " | 1 | 0.3 | - | - | - | - | - | - | - | - | - | 512 |
| | " | 1.5 | 0 | - | - | - | - | - | - | - | - | - | 240 |
| Vertical 2 | 03/07/16 | 0.5 | 0.3 | ND | - | 0.0 | - | - | - | - | - | - | 64 |
| | " | 1 | 0.3 | - | - | - | - | - | - | - | - | - | 87 |
| | | | | | | | | | | | | | |
| Vertical 3 | 03/07/16 | 0.5 | 0.8 | - | - | - | - | - | - | - | - | - | 23,218 |
| | " | 1 | 0 | ND | ND | 0.0 | - | - | - | - | - | - | 1,608 |
| | " | 1.5 | 0 | - | - | - | - | - | - | - | - | - | 96 |
| Vertical 4 | 03/07/16 | 0.5 | 2.1 | - | - | - | - | - | - | - | - | 14,017 | - |
| | " | 1 | 0.5 | ND | ND | 0.0 | - | - | - | - | - | - | 256 |
| | " | 1.5 | 0.0 | - | - | - | - | - | - | - | - | - | 118 |
| Vertical 5 | 03/07/16 | 0.5 | 0.2 | - | - | - | - | - | - | - | - | 3,257 | - |
| | " | 1 | 0 | ND | ND | 0.0 | - | - | - | - | - | - | 64 |
| | | | | | | | | | | | | | |
| Vertical 6 | 03/07/16 | 0.5 | 0.1 | - | - | - | - | - | - | - | - | 33,545 | - |
| | " | 1 | 0.0 | ND | ND | 0.0 | - | - | - | - | - | - | 560 |
| | " | 1.5 | 0.0 | ND | ND | 0.0 | - | - | - | - | - | - | 96 |
| Vertical 7 | 03/07/16 | 0.5 | 0.0 | ND | ND | 0.0 | - | - | - | - | - | - | 224 |
| | " | 1 | 0.0 | - | - | - | - | - | - | - | - | - | 123 |
| | | | | | | | | | | | | | |
| Vertical 8 | 03/07/16 | 0.5 | 0.1 | - | - | - | - | - | - | - | - | 5,557 | - |
| | " | 1.0 | 0 | - | - | - | - | - | - | - | - | - | 1,452 |
| | " | 1.5 | 0 | - | - | - | - | - | - | - | - | - | 629 |
| | " | 2.0 | 0 | ND | ND | 0.0 | - | - | - | - | - | - | 320 |
| | " | 2.5 | 0 | - | - | - | - | - | - | - | - | - | 234 |
| | " | 3 | 0 | ND | ND | 0.0 | - | - | - | - | - | - | 112 |

Table 1
ConocoPhillips
Injection Header 4
Verticals Installed by Conoco
Lea County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | Field PID (PPM) | TPH | | | BTEX | | | Chlorides | | | |
|-------------|-------------|-------------------|-----------------|---------------|---------------|-----------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------------|-------------------|
| | | | | TPH GRO mg/kg | TPH DRO mg/kg | Total TPH mg/kg | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | Field Chlorides (PPM) | Chlorides (mg/kg) |
| Vertical 9 | 03/07/16 | 0.3 | 1 | - | - | - | - | - | - | - | - | 1,729 | - |
| | " | 0.5 | 1.2 | ND | ND | 0.0 | 0.0 | - | - | - | - | - | 432 |
| | " | 1.0 | 0 | - | - | - | - | - | - | - | - | - | 313 |
| | " | 1.5 | 0 | ND | ND | 0.0 | 0.0 | - | - | - | - | - | 64 |
| Vertical 10 | 03/07/16 | 0.3 | 0 | - | - | - | - | - | - | - | - | 24,701 | - |
| | " | 0.5 | 0 | ND | ND | 0.0 | 0.0 | - | - | - | - | - | 240 |
| | " | 1.0 | 0 | ND | ND | 0.0 | 0.0 | - | - | - | - | - | 192 |
| | " | 1.5 | 0 | ND | ND | 0.0 | 0.0 | - | - | - | - | - | - |
| Vertical 11 | 03/07/16 | 0.3 | 1 | - | - | - | - | - | - | - | - | 13,941 | - |
| | " | 0.5 | 0 | ND | ND | 0.0 | 0.0 | - | - | - | - | - | 576 |
| | " | 1.0 | 0 | - | - | - | - | - | - | - | - | - | 338 |
| | " | 1.5 | 0 | ND | ND | 0.0 | 0.0 | - | - | - | - | - | 96 |

ND
(-)

Not Detected
Not Analyzed
Proposed Excavation Depth
Areas Re-assessed and Installed Soil Borings

Verticals 3, 6 and 8

Table 2
ConocoPhillips
Injection Header 4
Soil Borings installed by Tetra Tech
Lea County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | Soil Status | | Field PID (PPM) | | TPH | | | BTEX | | | Chlorides | | |
|-------------------|-------------|-------------------|-------------|---------|-----------------|---------------|---------------|-----------------|-----------------|-----------------|----------------------|-----------------|--------------------|-----------------------|-------------------|
| | | | In-Situ | Removed | TPH GRO mg/kg | TPH DRO mg/kg | TPH ORO mg/kg | Total TPH mg/kg | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylenes (mg/kg) | Total BTEX (mg/kg) | Field Chlorides (PPM) | Chlorides (mg/kg) |
| Vertical 3 | SB-1 | 08/16/17 | 0-6" | X | 0.5 | ND | 24.4 | 76.8 | 101.2 | ND | ND | ND | - | 93.9 | 127 |
| | " | 6"-1' | X | 0.4 | - | - | - | - | - | - | - | - | - | 250.0 | 109 |
| | " | 2-3' | X | 0.4 | - | - | - | - | - | - | - | - | - | 254.0 | 299 |
| | " | 4-5' | X | 0.3 | ND | 15.8 | 15.8 | ND | ND | ND | ND | ND | - | 83.7 | ND |
| | " | 6-7' | X | 0.3 | - | - | - | - | - | - | - | - | - | 56.9 | ND |
| | " | 9-10' | X | 0.3 | - | - | - | - | - | - | - | - | - | 43.1 | ND |
| | " | 14-15' | X | 0.3 | ND | ND | ND | ND | ND | ND | ND | ND | - | 40.8 | ND |
| Vertical 8 | SB-2 | 08/17/17 | 0-6" | X | 1.0 | ND | ND | 17.9 | 17.9 | ND | ND | ND | - | 1.3 PPT | 1,530 |
| | " | 6"-1' | X | 0.6 | - | - | - | - | - | - | - | - | - | 85.0 | ND |
| | " | 2-3' | X | 0.6 | ND | ND | - | ND | ND | ND | ND | ND | - | 53.4 | ND |
| | " | 4-5' | X | 0.6 | - | - | - | - | - | - | - | - | - | 69.2 | ND |
| | " | 6-7' | X | 0.6 | - | - | - | - | - | - | - | - | - | 75.2 | ND |
| | " | 9-10' | X | 0.6 | - | - | - | - | - | - | - | - | - | 74.6 | ND |
| | " | 14-15' | X | 0.6 | ND | ND | - | ND | ND | ND | ND | ND | - | 58.6 | ND |
| Vertical 6 | SB-3 | 08/17/17 | 0-6" | X | 0.5 | ND | 40 | 40.4 | ND | ND | ND | ND | - | 1.10 PPT | 1,450 |
| | " | 6"-1' | X | 0.6 | - | - | - | - | - | - | - | - | - | 713 | 507 |
| | " | 2-3' | X | 0.6 | ND | ND | - | ND | ND | ND | ND | ND | - | 113 | ND |
| | " | 4-5' | X | 0.6 | - | - | - | - | - | - | - | - | - | 98 | ND |
| | " | 6-7' | X | 0.6 | - | - | - | - | - | - | - | - | - | 76 | ND |
| | " | 9-10' | X | 0.6 | - | - | - | - | - | - | - | - | - | 103 | ND |
| | " | 14-15' | X | 0.6 | ND | 6.6 | 6.6 | ND | ND | ND | ND | ND | - | 111 | ND |

ND Not Detected
(-) Not Analyzed

 Proposed Excavation Depths

Photos

ConocoPhillips
EVGSAU Injection Header 4
Lea County, New Mexico



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View Northeast - Area of SB-1



View Southwest – Area of SB-2

ConocoPhillips
EVGSAU Injection Header 4
Lea County, New Mexico



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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 Injection 4 Header | Facility Type: Header |

| | | |
|----------------------|----------------------|----------------------|
| Surface Owner: NMOCD | Mineral Owner: NMOCD | API No. 30-025-34025 |
|----------------------|----------------------|----------------------|

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| D | 33 | 17S | 35E | 800 | North | 330 | West | LEA |

Latitude N32°47'51" Longitude W103° 28' 20"

NATURE OF RELEASE

| | | |
|------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------|
| Type of Release: Spill | Volume of Release: 141.0 BBLS | Volume Recovered: 95 BBLS |
| Source of Release: Malfunctioning swage. API of nearby well. Location of release accurate with Lat/Lon. | Date and Hour of Occurrence 02/26/2016 4:30 am | Date and Hour of Discovery 02/26/2016 4:30 am |
| Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? Jamie Keyes, NMOCD | |
| By Whom? Adam Stephens | Date and Hour: 02/26/2016 12:00 pm | |
| Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Friday February 26, 2016 at 0430 (MST), a release of produced water occurred after a failed fiberglass swage was discovered, resulting in the release of 141 bbls produced water with 95 bbls recovered. Immediate action was to isolate the header and make an emergency OneCall. Approximately 400 yards of wet soil was removed during remediation, with soil testing to follow. Location will be remediated in accordance with 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.

| | | <u>OIL CONSERVATION DIVISION</u> | |
|----------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Signature: Adam R. Stephens | | Approved by Environmental Specialist: | |
| Printed Name: Adam Stephens | | | |
| Title: LEAD HSE | | Approval Date: 03/08/2016 | Expiration Date: 05/08/2016 |
| E-mail Address: adam.r.stephens@conocophillips.com | | Conditions of Approval: Discrete site samples only. Delineate and remediate per NMOCD guidelines. Ensure SLO concurrence/approval. | |
| Date: 03/01/2016 | | Attached <input type="checkbox"/> 1RP 4202 | |
| Phone: 575-391-3133 | | | |

* Attach Additional Sheets If Necessary

nJJK16J6850915
pJJK1606851011

cy

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
Conoco Phillips - EVGSAU Injection Header 4
Lea County, New Mexico

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

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

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

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

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

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

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

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 | POD Sub-Code | basin | County | Q Q Q | | | | | X | Y | Depth Well | Depth Water | Water Column | | |
|--------------|--------------|-------|--------|-------|----|-----|-----|-----|--------|----------|------------|-------------|--------------|-----|-----|
| | | | | 64 | 16 | 4 | Sec | Tws | | | | | | | |
| 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

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

Appendix C

August 28, 2017

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

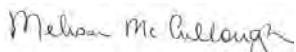
RE: Project: 212C-MD-00937/EVGSAU Inj.
Pace Project No.: 7572002

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 212C-MD-00937/EVGSAU Inj.
Pace Project No.: 7572002

Kansas Certification IDs

| | |
|-----------------------------------------|--------------------------------------------------|
| 9608 Loiret Boulevard, Lenexa, KS 66219 | Nevada Certification #: KS000212008A |
| WY STR Certification #: 2456.01 | Oklahoma Certification #: 9205/9935 |
| Arkansas Certification #: 15-016-0 | Texas Certification #: T104704407 |
| Illinois Certification #: 003097 | Utah Certification #: KS00021 |
| Iowa Certification #: 118 | Kansas Field Laboratory Accreditation: # E-92587 |
| Kansas/NELAP Certification #: E-10116 | Missouri Certification: 10070 |
| Louisiana Certification #: 03055 | |

Dallas Certification IDs:

| | |
|------------------------------------------------|-----------------------------------|
| 400 West Bethany Dr Suite 190, Allen, TX 75013 | Oklahoma Certification #: TX00074 |
| EPA# TX00074 | Louisiana Certification #: 30686 |
| Florida Certification #: E871118 | Iowa Certification #: 408 |
| Texas Certification #: T104704232 | Florida Certification #: E871118 |
| Kansas Certification #: E-10388 | Nevada Certification #: TX00074 |
| Arkansas Certification #: 88-0647 | |

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 212C-MD-00937/EVGSU Inj.
Pace Project No.: 7572002

| Lab ID | Sample ID | Matrix | Date Collected | Date Received |
|------------|-----------------------------|--------|----------------|----------------|
| 7572002001 | COP EVGSU HDR SB-1(0-6") | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002002 | COP EVGSU HDR SB-1(6"-1') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002003 | COP EVGSU HDR SB-1(2-3') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002004 | COP EVGSU HDR SB-1(4-5') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002005 | COP EVGSU HDR SB-1(6-7') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002006 | COP EVGSU HDR SB-1(9-10') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002007 | COP EVGSU HDR SB-1(14-15') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002009 | COP EVGSU HDR SB-2(6"-1') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002010 | COP EVGSU HDR SB-2 (2-3') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002011 | COP EVGSU HDR SB-2(4-5') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002012 | COP EVGSU HDR SB-2(6-7') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002013 | COP EVGSU HDR SB-2(9-10') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002014 | COP EVGSU HDR SB-2 (14-15') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002016 | COP EVGSU HDR SB-3(6"-1') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002017 | COP EVGSU HDR SB-3 (2-3') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002018 | COP EVGSU HDR SB-3(4-5') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002019 | COP EVGSU HDR SB-3(6-7') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002020 | COP EVGSU HDR SB-3(9-10') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |
| 7572002021 | COP EVGSU HDR SB-3 (14-15') | Solid | 08/14/17 00:01 | 08/15/17 08:50 |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00937/EVGSU Inj.
Pace Project No.: 7572002

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|----------------------------|--------------------|----------|-------------------|------------|
| 7572002001 | COP EVGSU HDR SB-1(0-6") | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | DJF | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002002 | COP EVGSU HDR SB-1(6"-1') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002003 | COP EVGSU HDR SB-1(2-3') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002004 | COP EVGSU HDR SB-1(4-5') | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | DJF | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002005 | COP EVGSU HDR SB-1(6-7') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002006 | COP EVGSU HDR SB-1(9-10') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002007 | COP EVGSU HDR SB-1(14-15') | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | DJF | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | DJF | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002009 | COP EVGSU HDR SB-2(6"-1') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002010 | COP EVGSU HDR SB-2 (2-3') | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00937/EVGSU Inj.
Pace Project No.: 7572002

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|------------|-----------------------------|--------------------|----------|-------------------|------------|
| | | EPA 8260 | DJF | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002011 | COP EVGSU HDR SB-2(4-5') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002012 | COP EVGSU HDR SB-2(6-7') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002013 | COP EVGSU HDR SB-2(9-10') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002014 | COP EVGSU HDR SB-2 (14-15') | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | DJF | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | ZST | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002016 | COP EVGSU HDR SB-3(6"-1') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002017 | COP EVGSU HDR SB-3 (2-3') | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | ZST | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002018 | COP EVGSU HDR SB-3(4-5') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002019 | COP EVGSU HDR SB-3(6-7') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002020 | COP EVGSU HDR SB-3(9-10') | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |
| 7572002021 | COP EVGSU HDR SB-3 (14-15') | EPA 8015B | MS1 | 2 | PASI-D |
| | | EPA 8015B Modified | PMS | 2 | PASI-D |

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 212C-MD-00937/EVGSAU Inj.
Pace Project No.: 7572002

| Lab ID | Sample ID | Method | Analysts | Analytes Reported | Laboratory |
|--------|-----------|---------------|----------|-------------------|------------|
| | | EPA 8015B | JTK | 2 | PASI-K |
| | | EPA 8260 | ZST | 7 | PASI-D |
| | | ASTM D2974-07 | DAT | 1 | PASI-D |
| | | EPA 300.0 | OL | 1 | PASI-K |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-1(0-6") Lab ID: 7572002001 Collected: 08/14/17 00:01 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 | | | | | | | |
| Diesel Range Organics | 24.4 | mg/kg | 6.0 | 1 | 08/17/17 19:45 | 08/28/17 13:26 | | 1t |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 36 | %. | 10-87 | 1 | 08/17/17 19:45 | 08/28/17 13:26 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | 76.8 | mg/kg | 6.0 | 1 | 08/17/17 19:45 | 08/28/17 12:21 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 41 | %. | 17-70 | 1 | 08/17/17 19:45 | 08/28/17 12:21 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 12.1 | 1 | 08/17/17 00:00 | 08/18/17 12:10 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 105 | % | 64-122 | 1 | 08/17/17 00:00 | 08/18/17 12:10 | 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 | 08/16/17 18:00 | 08/16/17 23:09 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0025 | 1 | 08/16/17 18:00 | 08/16/17 23:09 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0025 | 1 | 08/16/17 18:00 | 08/16/17 23:09 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0074 | 1 | 08/16/17 18:00 | 08/16/17 23:09 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 102 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/16/17 23:09 | 17060-07-0 | IS |
| 4-Bromofluorobenzene (S) | 105 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/16/17 23:09 | 460-00-4 | |
| Toluene-d8 (S) | 94 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/16/17 23:09 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 18.8 | % | | 1 | | 08/21/17 17:26 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | 127 | mg/kg | 125 | 10 | 08/23/17 10:00 | 08/23/17 17:21 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB- Lab ID: 7572002002 Collected: 08/14/17 00:01 Received: 08/15/17 08:50 Matrix: Solid
1(6"-1")

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

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 9.5 | % | | 1 | | 08/21/17 17:27 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | 109 | mg/kg | | 109 | 10 | 08/23/17 10:00 | 08/23/17 18:36 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-1(2-3') Lab ID: 7572002003 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 6.4 | % | | 1 | | 08/21/17 17:27 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | 299 | mg/kg | | 107 | 10 | 08/23/17 10:00 | 08/23/17 19:07 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-1(4-5') Lab ID: 7572002004 Collected: 08/14/17 00:01 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 | | | | | | | |
| Diesel Range Organics | ND | mg/kg | 5.3 | 1 | 08/17/17 19:45 | 08/21/17 18:58 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 36 | %. | 10-87 | 1 | 08/17/17 19:45 | 08/21/17 18:58 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | 15.8 | mg/kg | 5.3 | 1 | 08/17/17 19:45 | 08/21/17 19:30 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 47 | %. | 17-70 | 1 | 08/17/17 19:45 | 08/21/17 19:30 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.7 | 1 | 08/17/17 00:00 | 08/18/17 12:58 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 64-122 | 1 | 08/17/17 00:00 | 08/18/17 12:58 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/16/17 23:36 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/16/17 23:36 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/16/17 23:36 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0064 | 1 | 08/16/17 18:00 | 08/16/17 23:36 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 94 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/16/17 23:36 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 99 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/16/17 23:36 | 460-00-4 | |
| Toluene-d8 (S) | 94 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/16/17 23:36 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 7.2 | % | | | 1 | | 08/21/17 17:27 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | 107 | 10 | 08/23/17 10:00 | 08/23/17 19:22 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-1(6-7') Lab ID: 7572002005 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 5.1 | % | | 1 | | 08/21/17 17:27 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 105 | 10 | 08/23/17 10:00 | 08/23/17 19:37 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-1(9-10') Lab ID: 7572002006 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 7.7 | % | | 1 | | 08/21/17 17:29 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 108 | 10 | 08/23/17 10:00 | 08/23/17 19:52 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-1(14-15') **Lab ID: 7572002007** Collected: 08/14/17 00:01 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 | | | | | | | |
| Diesel Range Organics | ND | mg/kg | 5.2 | 1 | 08/17/17 19:45 | 08/24/17 15:44 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 67 | %. | 10-87 | 1 | 08/17/17 19:45 | 08/24/17 15:44 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | ND | mg/kg | 5.2 | 1 | 08/17/17 19:45 | 08/24/17 15:44 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 37 | %. | 17-70 | 1 | 08/17/17 19:45 | 08/24/17 15:44 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.5 | 1 | 08/17/17 00:00 | 08/18/17 13:14 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 104 | % | 64-122 | 1 | 08/17/17 00:00 | 08/18/17 13:14 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/17/17 00:02 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/17/17 00:02 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/17/17 00:02 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0064 | 1 | 08/16/17 18:00 | 08/17/17 00:02 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 88 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:02 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 101 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:02 | 460-00-4 | |
| Toluene-d8 (S) | 98 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:02 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 5.4 | % | | | 1 | | 08/21/17 17:29 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | 107 | 10 | 08/23/17 10:00 | 08/23/17 20:07 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-2 (0-6") Lab ID: 7572002008 Collected: 08/14/17 00:01 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 | | | | | | | |
| Diesel Range Organics | ND | mg/kg | 5.8 | 1 | 08/17/17 19:45 | 08/25/17 12:02 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 31 | %. | 10-87 | 1 | 08/17/17 19:45 | 08/25/17 12:02 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | 17.9 | mg/kg | 5.8 | 1 | 08/17/17 19:45 | 08/25/17 12:02 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 35 | %. | 17-70 | 1 | 08/17/17 19:45 | 08/25/17 12:02 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 11.5 | 1 | 08/17/17 00:00 | 08/18/17 13:30 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 64-122 | 1 | 08/17/17 00:00 | 08/18/17 13:30 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0023 | 1 | 08/16/17 18:00 | 08/17/17 00:28 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0023 | 1 | 08/16/17 18:00 | 08/17/17 00:28 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0023 | 1 | 08/16/17 18:00 | 08/17/17 00:28 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0070 | 1 | 08/16/17 18:00 | 08/17/17 00:28 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 93 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:28 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 102 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:28 | 460-00-4 | |
| Toluene-d8 (S) | 97 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:28 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 14.4 | % | | | 1 | | 08/21/17 17:30 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | 1530 | mg/kg | 119 | 10 | 08/23/17 10:00 | 08/23/17 20:22 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB- Lab ID: 7572002009 Collected: 08/14/17 00:01 Received: 08/15/17 08:50 Matrix: Solid
2(6"-1")

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

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 11.6 | % | | 1 | | 08/21/17 17:30 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 115 | 10 | 08/23/17 10:00 | 08/23/17 21:07 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-2 (2-3') **Lab ID: 7572002010** Collected: 08/14/17 00:01 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 | | | | | | | |
| Diesel Range Organics | ND | mg/kg | 5.3 | 1 | 08/17/17 19:45 | 08/24/17 16:17 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 34 | %. | 10-87 | 1 | 08/17/17 19:45 | 08/24/17 16:17 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | ND | mg/kg | 5.3 | 1 | 08/17/17 19:45 | 08/24/17 16:17 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 40 | %. | 17-70 | 1 | 08/17/17 19:45 | 08/24/17 16:17 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.5 | 1 | 08/17/17 00:00 | 08/18/17 13:46 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 101 | % | 64-122 | 1 | 08/17/17 00:00 | 08/18/17 13:46 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/17/17 00:54 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/17/17 00:54 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0021 | 1 | 08/16/17 18:00 | 08/17/17 00:54 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0064 | 1 | 08/16/17 18:00 | 08/17/17 00:54 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 87 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:54 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 102 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:54 | 460-00-4 | |
| Toluene-d8 (S) | 98 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 00:54 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 6.4 | % | | 1 | | 08/21/17 17:30 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | 108 | 10 | 08/23/17 10:00 | 08/23/17 21:23 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-2(4-5') Lab ID: 7572002011 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 8.0 | % | | 1 | | 08/21/17 17:30 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 108 | 10 | 08/23/17 10:00 | 08/23/17 21:38 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-2(6-7') Lab ID: 7572002012 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 9.8 | % | | 1 | | 08/21/17 17:30 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 112 | 10 | 08/23/17 10:00 | 08/23/17 21:53 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-2(9-10') Lab ID: 7572002013 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 12.0 | % | | 1 | | 08/21/17 17:30 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 112 | 10 | 08/23/17 10:00 | 08/23/17 22:08 | 16887-00-6 |

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-2 Lab ID: 7572002014 Collected: 08/14/17 00:01 Received: 08/15/17 08:50 Matrix: Solid
(14-15')

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 | 08/17/17 19:45 | 08/25/17 02:45 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 26 | %. | 10-87 | 1 | 08/17/17 19:45 | 08/25/17 02:45 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | ND | mg/kg | 5.5 | 1 | 08/17/17 19:45 | 08/25/17 02:45 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 28 | %. | 17-70 | 1 | 08/17/17 19:45 | 08/25/17 02:45 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 11.2 | 1 | 08/20/17 00:00 | 08/21/17 16:01 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 100 | % | 64-122 | 1 | 08/20/17 00:00 | 08/21/17 16:01 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0023 | 1 | 08/16/17 18:00 | 08/17/17 01:21 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0023 | 1 | 08/16/17 18:00 | 08/17/17 01:21 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0023 | 1 | 08/16/17 18:00 | 08/17/17 01:21 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0068 | 1 | 08/16/17 18:00 | 08/17/17 01:21 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 90 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 01:21 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 101 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 01:21 | 460-00-4 | |
| Toluene-d8 (S) | 95 | %. | 70-130 | 1 | 08/16/17 18:00 | 08/17/17 01:21 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 10.3 | % | | 1 | | 08/21/17 17:31 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | 113 | 10 | 08/23/17 10:00 | 08/23/17 22:23 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-3 (0-6") Lab ID: 7572002015 Collected: 08/14/17 00:01 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 | | | | | | | |
| Diesel Range Organics | ND | mg/kg | 10.7 | 1 | 08/22/17 15:30 | 08/28/17 12:53 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 28 | %. | 10-87 | 1 | 08/22/17 15:30 | 08/28/17 12:53 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | 40.4 | mg/kg | 10.7 | 1 | 08/22/17 15:30 | 08/28/17 13:26 | | M1,N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 31 | %. | 17-70 | 1 | 08/22/17 15:30 | 08/28/17 13:26 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.9 | 1 | 08/20/17 00:00 | 08/21/17 16:48 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 93 | % | 64-122 | 1 | 08/20/17 00:00 | 08/21/17 16:48 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0022 | 1 | 08/17/17 16:00 | 08/17/17 19:45 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0022 | 1 | 08/17/17 16:00 | 08/17/17 19:45 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0022 | 1 | 08/17/17 16:00 | 08/17/17 19:45 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0065 | 1 | 08/17/17 16:00 | 08/17/17 19:45 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 89 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 19:45 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 102 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 19:45 | 460-00-4 | |
| Toluene-d8 (S) | 94 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 19:45 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 8.1 | % | | | 1 | | 08/21/17 17:31 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | 1450 | mg/kg | 109 | 10 | 08/23/17 10:00 | 08/23/17 22:38 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB- Lab ID: 7572002016 Collected: 08/14/17 00:01 Received: 08/15/17 08:50 Matrix: Solid
3(6"-1")

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

| Parameters | Results | Units | Report Limit | DF | Prepared | Analyzed | CAS No. | Qual |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 6.4 | % | | 1 | | 08/21/17 17:31 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | 507 | mg/kg | | 107 | 10 | 08/23/17 10:00 | 08/23/17 22:53 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-3 Lab ID: 7572002017 Collected: 08/14/17 00:01 Received: 08/15/17 08:50 Matrix: Solid
(2-3')

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 | 08/22/17 15:30 | 08/25/17 21:36 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 23 | %. | 10-87 | 1 | 08/22/17 15:30 | 08/25/17 21:36 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | ND | mg/kg | 5.2 | 1 | 08/22/17 15:30 | 08/25/17 21:36 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 24 | %. | 17-70 | 1 | 08/22/17 15:30 | 08/25/17 21:36 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.5 | 1 | 08/20/17 00:00 | 08/21/17 17:04 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 93 | % | 64-122 | 1 | 08/20/17 00:00 | 08/21/17 17:04 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0021 | 1 | 08/17/17 16:00 | 08/17/17 20:12 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0021 | 1 | 08/17/17 16:00 | 08/17/17 20:12 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0021 | 1 | 08/17/17 16:00 | 08/17/17 20:12 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0063 | 1 | 08/17/17 16:00 | 08/17/17 20:12 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 100 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 20:12 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 92 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 20:12 | 460-00-4 | |
| Toluene-d8 (S) | 90 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 20:12 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 5.1 | % | | | 1 | | 08/21/17 17:32 | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | 106 | 10 | 08/23/17 10:00 | 08/23/17 23:08 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-3(4-5') Lab ID: 7572002018 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 6.4 | % | | 1 | | 08/21/17 17:32 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 107 | 10 | 08/23/17 10:00 | 08/23/17 23:23 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-3(6-7') Lab ID: 7572002019 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 5.8 | % | | 1 | | 08/21/17 17:33 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 107 | 10 | 08/23/17 10:00 | 08/24/17 00:09 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-3(9-10') Lab ID: 7572002020 Collected: 08/14/17 00:01 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 |
|--------------------------------|------------------------------------------------------------|-------|--------------|-----|----------|----------------|----------------|------------|
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 12.7 | % | | 1 | | 08/21/17 17:33 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | | 114 | 10 | 08/23/17 10:00 | 08/24/17 00:24 | 16887-00-6 |

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

Sample: COP EVGSU HDR SB-3 (14-15') **Lab ID: 7572002021** Collected: 08/14/17 00:01 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 | | | | | | | |
| Diesel Range Organics | ND | mg/kg | 5.4 | 1 | 08/17/17 19:45 | 08/25/17 22:37 | | |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 27 | %. | 10-87 | 1 | 08/17/17 19:45 | 08/25/17 22:37 | | |
| 8015M Oil Range Organics | Analytical Method: EPA 8015B Modified Preparation Method: EPA 3546 | | | | | | | |
| Oil Range Organics | 6.6 | mg/kg | 5.4 | 1 | 08/17/17 19:45 | 08/25/17 22:37 | | N2 |
| Surrogates | | | | | | | | |
| a-Pinene (S) | 28 | %. | 17-70 | 1 | 08/17/17 19:45 | 08/25/17 22:37 | | |
| Gasoline Range Organics | Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B | | | | | | | |
| TPH-GRO | ND | mg/kg | 10.8 | 1 | 08/17/17 00:00 | 08/18/17 14:01 | | |
| Surrogates | | | | | | | | |
| 4-Bromofluorobenzene (S) | 97 | % | 64-122 | 1 | 08/17/17 00:00 | 08/18/17 14:01 | 460-00-4 | |
| 8260 MSV UST Soil Low Level | Analytical Method: EPA 8260 Preparation Method: EPA 5030 Low | | | | | | | |
| Benzene | ND | mg/kg | 0.0022 | 1 | 08/17/17 16:00 | 08/17/17 20:39 | 71-43-2 | |
| Ethylbenzene | ND | mg/kg | 0.0022 | 1 | 08/17/17 16:00 | 08/17/17 20:39 | 100-41-4 | |
| Toluene | ND | mg/kg | 0.0022 | 1 | 08/17/17 16:00 | 08/17/17 20:39 | 108-88-3 | |
| Xylene (Total) | ND | mg/kg | 0.0066 | 1 | 08/17/17 16:00 | 08/17/17 20:39 | 1330-20-7 | |
| Surrogates | | | | | | | | |
| 1,2-Dichloroethane-d4 (S) | 97 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 20:39 | 17060-07-0 | |
| 4-Bromofluorobenzene (S) | 97 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 20:39 | 460-00-4 | |
| Toluene-d8 (S) | 95 | %. | 70-130 | 1 | 08/17/17 16:00 | 08/17/17 20:39 | 2037-26-5 | |
| Percent Moisture | Analytical Method: ASTM D2974-07 | | | | | | | |
| Percent Moisture | 8.6 | % | | 1 | | 08/21/17 17:45 | | |
| 300.0 IC Anions 28 Days | Analytical Method: EPA 300.0 Preparation Method: EPA 300.0 | | | | | | | |
| Chloride | ND | mg/kg | 110 | 10 | 08/23/17 10:45 | 08/23/17 15:22 | 16887-00-6 | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

| | | | |
|-------------------------|------------------------------------------------------------------------|-----------------------|-------------------------|
| QC Batch: | 490296 | Analysis Method: | EPA 8015B |
| QC Batch Method: | EPA 5035A/5030B | Analysis Description: | Gasoline Range Organics |
| Associated Lab Samples: | 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002021 | | |

METHOD BLANK: 2007132 Matrix: Solid

Associated Lab Samples: 7572002007, 7572002008, 7572002010, 7572002021

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| TPH-GRO | mg/kg | ND | 10.0 | 08/17/17 18:47 | |
| 4-Bromofluorobenzene (S) | % | 107 | 64-122 | 08/17/17 18:47 | |

METHOD BLANK: 2008151 Matrix: Solid

Associated Lab Samples: 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002021

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------------|-------|--------------|-----------------|----------------|------------|
| TPH-GRO | mg/kg | ND | 10.0 | 08/18/17 11:34 | |
| 4-Bromofluorobenzene (S) | % | 108 | 64-122 | 08/18/17 11:34 | |

LABORATORY CONTROL SAMPLE: 2008152

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------------|-------|-------------|------------|-----------|--------------|------------|
| TPH-GRO | mg/kg | 50 | 54.1 | 108 | 85-130 | |
| 4-Bromofluorobenzene (S) | % | | | 100 | 64-122 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2007134 2007135

| Parameter | Units | 7572002001 Result | MS Spike | MSD Spike | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD RPD | Max Qual |
|--------------------------|-------|-------------------|----------|-----------|-----------|------------|----------|-----------|--------------|---------|----------|
| | | | Conc. | Conc. | | | | | | | |
| TPH-GRO | mg/kg | ND | 60.5 | 60.5 | 63.5 | 65.6 | 103 | 106 | 85-125 | 3 | 12 |
| 4-Bromofluorobenzene (S) | % | | | | | | 104 | 109 | 64-122 | | |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSAU Inj.

Pace Project No.: 7572002

| | | | |
|-------------------------|------------------------------------|-----------------------|-------------------------|
| QC Batch: | 490632 | Analysis Method: | EPA 8015B |
| QC Batch Method: | EPA 5035A/5030B | Analysis Description: | Gasoline Range Organics |
| Associated Lab Samples: | 7572002014, 7572002015, 7572002017 | | |

METHOD BLANK: 2008512 Matrix: Solid

Associated Lab Samples: 7572002014, 7572002015, 7572002017

| 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 | Max 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 | | | |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

QC Batch: 81797 Analysis Method: EPA 8260

QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level

Associated Lab Samples: 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002014

METHOD BLANK: 359724

Matrix: Solid

Associated Lab Samples: 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002014

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

LABORATORY CONTROL SAMPLE: 359725

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 359726

359727

| Parameter | Units | Result | MS | | MSD | | % Rec | MSD % Rec | % Rec Limits | Max RPD | | Qual |
|---------------------------|-------|--------|-------------|-------------|-----------|------------|-------|-----------|--------------|---------|-----|------|
| | | | Spike Conc. | Spike Conc. | MS Result | MSD Result | | | | RPD | RPD | |
| Benzene | mg/kg | ND | .058 | .058 | 0.056 | 0.057 | 98 | 100 | 32-152 | 1 | 20 | |
| Ethylbenzene | mg/kg | ND | .058 | .057 | 0.056 | 0.055 | 97 | 96 | 18-166 | 1 | 20 | |
| Toluene | mg/kg | ND | .058 | .058 | 0.054 | 0.054 | 94 | 94 | 18-166 | 1 | 20 | |
| Xylene (Total) | mg/kg | ND | .17 | .17 | 0.16 | 0.16 | 94 | 94 | 10-172 | 1 | 20 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | | | | 85 | 87 | 70-130 | | | |
| 4-Bromofluorobenzene (S) | %. | | | | | | 100 | 96 | 70-130 | | | |
| Toluene-d8 (S) | %. | | | | | | 99 | 97 | 70-130 | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

QC Batch: 81956 Analysis Method: EPA 8260

QC Batch Method: EPA 5030 Low Analysis Description: 8260 MSV Soil Low Level

Associated Lab Samples: 7572002015, 7572002017, 7572002021

METHOD BLANK: 360685 Matrix: Solid

Associated Lab Samples: 7572002015, 7572002017, 7572002021

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|---------------------------|-------|--------------|-----------------|----------------|------------|
| Benzene | mg/kg | ND | 0.0020 | 08/17/17 19:17 | |
| Ethylbenzene | mg/kg | ND | 0.0020 | 08/17/17 19:17 | |
| Toluene | mg/kg | ND | 0.0020 | 08/17/17 19:17 | |
| Xylene (Total) | mg/kg | ND | 0.0060 | 08/17/17 19:17 | |
| 1,2-Dichloroethane-d4 (S) | %. | 86 | 70-130 | 08/17/17 19:17 | |
| 4-Bromofluorobenzene (S) | %. | 103 | 70-130 | 08/17/17 19:17 | |
| Toluene-d8 (S) | %. | 96 | 70-130 | 08/17/17 19:17 | |

LABORATORY CONTROL SAMPLE: 360686

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|---------------------------|-------|-------------|------------|-----------|--------------|------------|
| Benzene | mg/kg | .05 | 0.051 | 103 | 74-130 | |
| Ethylbenzene | mg/kg | .05 | 0.050 | 101 | 77-127 | |
| Toluene | mg/kg | .05 | 0.049 | 99 | 74-127 | |
| Xylene (Total) | mg/kg | .15 | 0.15 | 97 | 74-128 | |
| 1,2-Dichloroethane-d4 (S) | %. | | | 88 | 70-130 | |
| 4-Bromofluorobenzene (S) | %. | | | 98 | 70-130 | |
| Toluene-d8 (S) | %. | | | 97 | 70-130 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 360687 360688

| Parameter | Units | MS | | MSD | | MS Result | MS % Rec | MSD % Rec | % Rec Limits | Max | |
|---------------------------|-------|------------|-------------|-------------|-----------|-----------|----------|-----------|--------------|-----|-----|
| | | 7572002017 | Spike Conc. | Spike Conc. | MS Result | | | | | RPD | RPD |
| Benzene | mg/kg | ND | .052 | .052 | 0.047 | 0.047 | 91 | 90 | 32-152 | 2 | 20 |
| Ethylbenzene | mg/kg | ND | .052 | .052 | 0.045 | 0.045 | 87 | 87 | 18-166 | 0 | 20 |
| Toluene | mg/kg | ND | .052 | .052 | 0.045 | 0.046 | 86 | 87 | 18-166 | 2 | 20 |
| Xylene (Total) | mg/kg | ND | .16 | .16 | 0.13 | 0.13 | 85 | 85 | 10-172 | 0 | 20 |
| 1,2-Dichloroethane-d4 (S) | %. | | | | | | 85 | 84 | 70-130 | | |
| 4-Bromofluorobenzene (S) | %. | | | | | | 97 | 99 | 70-130 | | |
| Toluene-d8 (S) | %. | | | | | | 96 | 96 | 70-130 | | |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSAU Inj.

Pace Project No.: 7572002

QC Batch: 81971 Analysis Method: EPA 8015B

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

Associated Lab Samples: 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002014, 7572002021

METHOD BLANK: 360757 Matrix: Solid

Associated Lab Samples: 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002014, 7572002021

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

LABORATORY CONTROL SAMPLE: 360758

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 360759 360760

| Parameter | Units | 7571855041 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD RPD | Max Qual |
|-----------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|----------|
| Diesel Range Organics | mg/kg | 3170 | 6060 | 6030 | 1220 | 5870 | -32 | 45 | 10-172 | 131 | 20 M1,R1 |
| a-Pinene (S) | %. | | | | | | 88 | 166 | 10-87 | | S2 |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSAU Inj.

Pace Project No.: 7572002

| | | | |
|-------------------------|------------------------|-----------------------|-----------|
| QC Batch: | 82207 | Analysis Method: | EPA 8015B |
| QC Batch Method: | EPA 3546 | Analysis Description: | EPA 8015B |
| Associated Lab Samples: | 7572002015, 7572002017 | | |

METHOD BLANK: 361810 Matrix: Solid

Associated Lab Samples: 7572002015, 7572002017

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------------------|-------|--------------|-----------------|----------------|------------|
| Diesel Range Organics | mg/kg | ND | 3.3 | 08/24/17 18:27 | |
| a-Pinene (S) | %. | 27 | 10-87 | 08/24/17 18:27 | |

LABORATORY CONTROL SAMPLE: 361811

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------------------|-------|-------------|------------|-----------|--------------|------------|
| Diesel Range Organics | mg/kg | 33.3 | 15.7 | 47 | 42-124 | |
| a-Pinene (S) | %. | | | 37 | 10-87 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 361812 361813

| Parameter | Units | 7572002015 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 | 109 | 109 | 65.7 | 69.9 | 55 | 58 | 10-172 | 6 | 20 | |
| a-Pinene (S) | %. | | | | | | 33 | 34 | 10-87 | | | |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

QC Batch: 81972 Analysis Method: EPA 8015B Modified

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

Associated Lab Samples: 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002014, 7572002021

METHOD BLANK: 360761 Matrix: Solid

Associated Lab Samples: 7572002001, 7572002004, 7572002007, 7572002008, 7572002010, 7572002014, 7572002021

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

LABORATORY CONTROL SAMPLE: 360762

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 360763 360764

| Parameter | Units | MS | MSD | MS | MSD | MS | MSD | % Rec | % Rec | Max | |
|--------------------|-------|------------|-------|------|------|------|-----|-------|--------|-----|------------|
| | | 7571855041 | Spike | | | | | | | | Qual |
| Oil Range Organics | mg/kg | 2700 | 6020 | 5970 | 4450 | 2520 | 29 | -3 | 10-196 | 55 | M3, N2, R1 |
| a-Pinene (S) | %. | | | | | | 0 | 0 | 17-70 | 40 | S2 |

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

| | | | |
|-------------------------|------------------------|-----------------------|--------------------|
| QC Batch: | 82210 | Analysis Method: | EPA 8015B Modified |
| QC Batch Method: | EPA 3546 | Analysis Description: | EPA 8015 ORO |
| Associated Lab Samples: | 7572002015, 7572002017 | | |

METHOD BLANK: 361819 Matrix: Solid

Associated Lab Samples: 7572002015, 7572002017

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|--------------------|-------|--------------|-----------------|----------------|------------|
| Oil Range Organics | mg/kg | ND | 3.3 | 08/24/17 18:59 | N2 |
| a-Pinene (S) | %. | 29 | 17-70 | 08/24/17 18:59 | |

LABORATORY CONTROL SAMPLE: 361820

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|--------------------|-------|-------------|------------|-----------|--------------|------------|
| Oil Range Organics | mg/kg | 33.3 | 31.1 | 93 | 48-145 | N2 |
| a-Pinene (S) | %. | | | 28 | 17-70 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 361821 361822

| Parameter | Units | 7572002015 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | RPD | Max Qual |
|--------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|-----|----------|
| Oil Range Organics | mg/kg | 40.4 | 539 | 537 | 88.6 | 91.8 | 9 | 6 | 10-196 | 4 | 40 | M1,N2 S0 |
| a-Pinene (S) | %. | | | | | | | | 17-70 | | | |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

| | | | |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------------|
| QC Batch: | 82139 | Analysis Method: | ASTM D2974-07 |
| QC Batch Method: | ASTM D2974-07 | Analysis Description: | Dry Weight/Percent Moisture |
| Associated Lab Samples: | 7572002001, 7572002002, 7572002003, 7572002004, 7572002005, 7572002006, 7572002007, 7572002008, 7572002009, 7572002010, 7572002011, 7572002012, 7572002013, 7572002014, 7572002015, 7572002016, 7572002017, 7572002018, 7572002019, 7572002020 | | |

SAMPLE DUPLICATE: 361498

| Parameter | Units | 7572002001 Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|----------------------|---------------|-----|------------|------------|
| Percent Moisture | % | 18.8 | 16.9 | 11 | 20 | |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSAU Inj.

Pace Project No.: 7572002

QC Batch: 82140 Analysis Method: ASTM D2974-07

QC Batch Method: ASTM D2974-07 Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 7572002021

SAMPLE DUPLICATE: 361501

| Parameter | Units | Result | Dup Result | RPD | Max RPD | Qualifiers |
|------------------|-------|--------|------------|-----|---------|------------|
| Percent Moisture | % | 12.2 | 12.7 | 4 | 20 | H1 |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

| | | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------|-----------------|
| QC Batch: | 490609 | Analysis Method: | EPA 300.0 |
| QC Batch Method: | EPA 300.0 | Analysis Description: | 300.0 IC Anions |
| Associated Lab Samples: 7572002001, 7572002002, 7572002003, 7572002004, 7572002005, 7572002006, 7572002007, 7572002008, 7572002009, 7572002010, 7572002011, 7572002012, 7572002013, 7572002014, 7572002015, 7572002016, 7572002017, 7572002018, 7572002019, 7572002020 | | | |

| METHOD BLANK: 2008462 | | Matrix: Solid | | | | |
|-------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|----------------|------------|--|
| Associated Lab Samples: | | 7572002001, 7572002002, 7572002003, 7572002004, 7572002005, 7572002006, 7572002007, 7572002008, 7572002009, 7572002010, 7572002011, 7572002012, 7572002013, 7572002014, 7572002015, 7572002016, 7572002017, 7572002018, 7572002019, 7572002020 | | | | |
| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers | |
| Chloride | mg/kg | ND | 100 | 08/23/17 16:51 | | |

| LABORATORY CONTROL SAMPLE: 2008463 | | 2008465 | | | | | |
|------------------------------------|-------|-------------|------------|-----------|--------------|------------|--|
| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers | |
| Chloride | mg/kg | 500 | 478 | 96 | 90-110 | | |

| MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2008464 | | 2008465 | | | | | | | | | | |
|------------------------------------------------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|-----|---------|------|
| Parameter | Units | 7572002001 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | RPD | Max RPD | Qual |
| Chloride | mg/kg | 127 | 624 | 622 | 636 | 639 | 81 | 82 | 80-120 | 1 | 15 | |

| MATRIX SPIKE SAMPLE: 2008466 | | 2008465 | | | | | |
|------------------------------|-------|-------------------|-----|-------------|-----------|----------|--------------|
| Parameter | Units | 7572002002 Result | | Spike Conc. | MS Result | MS % Rec | % Rec Limits |
| Chloride | mg/kg | 109 | 552 | 582 | 86 | 80-120 | |

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QUALITY CONTROL DATA

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

| | | | |
|-------------------------|------------|-----------------------|-----------------|
| QC Batch: | 490610 | Analysis Method: | EPA 300.0 |
| QC Batch Method: | EPA 300.0 | Analysis Description: | 300.0 IC Anions |
| Associated Lab Samples: | 7572002021 | | |

METHOD BLANK: 2008467 Matrix: Solid

Associated Lab Samples: 7572002021

| Parameter | Units | Blank Result | Reporting Limit | Analyzed | Qualifiers |
|-----------|-------|--------------|-----------------|----------------|------------|
| Chloride | mg/kg | ND | 100 | 08/23/17 14:56 | |

LABORATORY CONTROL SAMPLE: 2008468

| Parameter | Units | Spike Conc. | LCS Result | LCS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------|------------|-----------|--------------|------------|
| Chloride | mg/kg | 500 | 477 | 95 | 90-110 | |

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2008469 2008470

| Parameter | Units | 7572002021 Result | MS Spike Conc. | MSD Spike Conc. | MS Result | MSD Result | MS % Rec | MSD % Rec | % Rec Limits | Max RPD | Max RPD | Max Qual |
|-----------|-------|-------------------|----------------|-----------------|-----------|------------|----------|-----------|--------------|---------|---------|----------|
| Chloride | mg/kg | ND | 544 | 552 | 544 | 553 | 89 | 90 | 80-120 | 2 | 15 | |

MATRIX SPIKE SAMPLE: 2008471

| Parameter | Units | 7572003002 Result | Spike Conc. | MS Result | MS % Rec | % Rec Limits | Qualifiers |
|-----------|-------|-------------------|-------------|-----------|----------|--------------|------------|
| Chloride | mg/kg | ND | 563 | 641 | 97 | 80-120 | |

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 212C-MD-00937/EVGSU Inj.
Pace Project No.: 7572002

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

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

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

TNI - The Nelac Institute

LABORATORIES

PASI-D Pace Analytical Services - Dallas

PASI-K Pace Analytical Services - Kansas City

ANALYTE QUALIFIERS

1t The reported results may be elevated due to the presence of oil in the sample.

H1 Analysis conducted outside the EPA method holding time.

IS The internal standard response is below criteria. Results may be biased high.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

M3 Matrix spike recovery was outside laboratory control limits due to matrix interferences.

N2 The lab does not hold NELAC/TNI accreditation for this parameter.

R1 RPD value was outside control limits.

S0 Surrogate recovery outside laboratory control limits.

S2 Surrogate recovery outside laboratory control limits due to matrix interferences (confirmed by similar results from sample re-analysis).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------------------------|-----------------|----------|--------------------|------------------|
| 7572002001 | COP EVGSU HDR SB-1(0-6") | EPA 3546 | 81971 | EPA 8015B | 82060 |
| 7572002004 | COP EVGSU HDR SB-1(4-5") | EPA 3546 | 81971 | EPA 8015B | 82060 |
| 7572002007 | COP EVGSU HDR SB-1(14-15") | EPA 3546 | 81971 | EPA 8015B | 82060 |
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | EPA 3546 | 81971 | EPA 8015B | 82060 |
| 7572002010 | COP EVGSU HDR SB-2 (2-3") | EPA 3546 | 81971 | EPA 8015B | 82060 |
| 7572002014 | COP EVGSU HDR SB-2 (14-15") | EPA 3546 | 81971 | EPA 8015B | 82060 |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | EPA 3546 | 82207 | EPA 8015B | 82420 |
| 7572002017 | COP EVGSU HDR SB-3 (2-3") | EPA 3546 | 82207 | EPA 8015B | 82420 |
| 7572002021 | COP EVGSU HDR SB-3 (14-15") | EPA 3546 | 81971 | EPA 8015B | 82060 |
| 7572002001 | COP EVGSU HDR SB-1(0-6") | EPA 3546 | 81972 | EPA 8015B Modified | 82061 |
| 7572002004 | COP EVGSU HDR SB-1(4-5") | EPA 3546 | 81972 | EPA 8015B Modified | 82061 |
| 7572002007 | COP EVGSU HDR SB-1(14-15") | EPA 3546 | 81972 | EPA 8015B Modified | 82061 |
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | EPA 3546 | 81972 | EPA 8015B Modified | 82061 |
| 7572002010 | COP EVGSU HDR SB-2 (2-3") | EPA 3546 | 81972 | EPA 8015B Modified | 82061 |
| 7572002014 | COP EVGSU HDR SB-2 (14-15") | EPA 3546 | 81972 | EPA 8015B Modified | 82061 |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | EPA 3546 | 82210 | EPA 8015B Modified | 82419 |
| 7572002017 | COP EVGSU HDR SB-3 (2-3") | EPA 3546 | 82210 | EPA 8015B Modified | 82419 |
| 7572002021 | COP EVGSU HDR SB-3 (14-15") | EPA 3546 | 81972 | EPA 8015B Modified | 82061 |
| 7572002001 | COP EVGSU HDR SB-1(0-6") | EPA 5035A/5030B | 490296 | EPA 8015B | 490559 |
| 7572002004 | COP EVGSU HDR SB-1(4-5") | EPA 5035A/5030B | 490296 | EPA 8015B | 490559 |
| 7572002007 | COP EVGSU HDR SB-1(14-15") | EPA 5035A/5030B | 490296 | EPA 8015B | 490559 |
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | EPA 5035A/5030B | 490296 | EPA 8015B | 490559 |
| 7572002010 | COP EVGSU HDR SB-2 (2-3") | EPA 5035A/5030B | 490296 | EPA 8015B | 490559 |
| 7572002014 | COP EVGSU HDR SB-2 (14-15") | EPA 5035A/5030B | 490632 | EPA 8015B | 490997 |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | EPA 5035A/5030B | 490632 | EPA 8015B | 490997 |
| 7572002017 | COP EVGSU HDR SB-3 (2-3") | EPA 5035A/5030B | 490632 | EPA 8015B | 490997 |
| 7572002021 | COP EVGSU HDR SB-3 (14-15") | EPA 5035A/5030B | 490296 | EPA 8015B | 490559 |
| 7572002001 | COP EVGSU HDR SB-1(0-6") | EPA 5030 Low | 81797 | EPA 8260 | 81893 |
| 7572002004 | COP EVGSU HDR SB-1(4-5") | EPA 5030 Low | 81797 | EPA 8260 | 81893 |
| 7572002007 | COP EVGSU HDR SB-1(14-15") | EPA 5030 Low | 81797 | EPA 8260 | 81893 |
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | EPA 5030 Low | 81797 | EPA 8260 | 81893 |
| 7572002010 | COP EVGSU HDR SB-2 (2-3") | EPA 5030 Low | 81797 | EPA 8260 | 81893 |
| 7572002014 | COP EVGSU HDR SB-2 (14-15") | EPA 5030 Low | 81797 | EPA 8260 | 81893 |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | EPA 5030 Low | 81956 | EPA 8260 | 81973 |
| 7572002017 | COP EVGSU HDR SB-3 (2-3") | EPA 5030 Low | 81956 | EPA 8260 | 81973 |
| 7572002021 | COP EVGSU HDR SB-3 (14-15") | EPA 5030 Low | 81956 | EPA 8260 | 81973 |
| 7572002001 | COP EVGSU HDR SB-1(0-6") | ASTM D2974-07 | 82139 | | |
| 7572002002 | COP EVGSU HDR SB-1(6"-1') | ASTM D2974-07 | 82139 | | |
| 7572002003 | COP EVGSU HDR SB-1(2-3") | ASTM D2974-07 | 82139 | | |
| 7572002004 | COP EVGSU HDR SB-1(4-5") | ASTM D2974-07 | 82139 | | |
| 7572002005 | COP EVGSU HDR SB-1(6-7") | ASTM D2974-07 | 82139 | | |
| 7572002006 | COP EVGSU HDR SB-1(9-10") | ASTM D2974-07 | 82139 | | |
| 7572002007 | COP EVGSU HDR SB-1(14-15") | ASTM D2974-07 | 82139 | | |

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 212C-MD-00937/EVGSU Inj.

Pace Project No.: 7572002

| Lab ID | Sample ID | QC Batch Method | QC Batch | Analytical Method | Analytical Batch |
|------------|-----------------------------|-----------------|----------|-------------------|------------------|
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | ASTM D2974-07 | 82139 | | |
| 7572002009 | COP EVGSU HDR SB-2(6"-1') | ASTM D2974-07 | 82139 | | |
| 7572002010 | COP EVGSU HDR SB-2 (2-3') | ASTM D2974-07 | 82139 | | |
| 7572002011 | COP EVGSU HDR SB-2(4-5') | ASTM D2974-07 | 82139 | | |
| 7572002012 | COP EVGSU HDR SB-2(6-7') | ASTM D2974-07 | 82139 | | |
| 7572002013 | COP EVGSU HDR SB-2(9-10') | ASTM D2974-07 | 82139 | | |
| 7572002014 | COP EVGSU HDR SB-2 (14-15') | ASTM D2974-07 | 82139 | | |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | ASTM D2974-07 | 82139 | | |
| 7572002016 | COP EVGSU HDR SB-3(6"-1') | ASTM D2974-07 | 82139 | | |
| 7572002017 | COP EVGSU HDR SB-3 (2-3') | ASTM D2974-07 | 82139 | | |
| 7572002018 | COP EVGSU HDR SB-3(4-5') | ASTM D2974-07 | 82139 | | |
| 7572002019 | COP EVGSU HDR SB-3(6-7') | ASTM D2974-07 | 82139 | | |
| 7572002020 | COP EVGSU HDR SB-3(9-10') | ASTM D2974-07 | 82139 | | |
| 7572002021 | COP EVGSU HDR SB-3 (14-15') | ASTM D2974-07 | 82140 | | |
| 7572002001 | COP EVGSU HDR SB-1(0-6") | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002002 | COP EVGSU HDR SB-1(6"-1') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002003 | COP EVGSU HDR SB-1(2-3') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002004 | COP EVGSU HDR SB-1(4-5') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002005 | COP EVGSU HDR SB-1(6-7') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002006 | COP EVGSU HDR SB-1(9-10') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002007 | COP EVGSU HDR SB-1(14-15') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002008 | COP EVGSU HDR SB-2 (0-6") | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002009 | COP EVGSU HDR SB-2(6"-1') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002010 | COP EVGSU HDR SB-2 (2-3') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002011 | COP EVGSU HDR SB-2(4-5') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002012 | COP EVGSU HDR SB-2(6-7') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002013 | COP EVGSU HDR SB-2(9-10') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002014 | COP EVGSU HDR SB-2 (14-15') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002015 | COP EVGSU HDR SB-3 (0-6") | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002016 | COP EVGSU HDR SB-3(6"-1') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002017 | COP EVGSU HDR SB-3 (2-3') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002018 | COP EVGSU HDR SB-3(4-5') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002019 | COP EVGSU HDR SB-3(6-7') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002020 | COP EVGSU HDR SB-3(9-10') | EPA 300.0 | 490609 | EPA 300.0 | 491162 |
| 7572002021 | COP EVGSU HDR SB-3 (14-15') | EPA 300.0 | 490610 | EPA 300.0 | 491159 |

REPORT OF LABORATORY ANALYSIS

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

Sample Condition Upon Receipt

Dallas

Ft Worth

San Angelo

WO# : 7572002



7572002

Client Name: Tetra Tech Project Work order:

Courier: FedEx UPS USPS Client Courier LSO PACE Other:

Tracking#: 7420 89791910 / 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-CS4 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 <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 1 |
| Chain of Custody filled out | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 2 |
| Chain of Custody relinquished | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 3 |
| Sampler name & signature on COC | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 4 |
| Sample received within HT | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 5 |
| Short HT analyses (<72 hrs) | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> 6 |
| Rush TAT requested | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA <input type="checkbox"/> 7 |
| Sufficient Volume received | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 8 |
| Correct Container used | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 9 |
| Pace Container used | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> |
| Container Intact | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 10 |
| Unpreserved 5035A soil frozen within 48 hrs | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> 11 |
| Filtered volume received for Dissolved tests | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> 12 |
| Sample labels match COC | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 13 |
| Include date/time/ID/analyses Matrix: | <u>Soil</u> |
| All containers needing preservation have been checked | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> |
| | 14a. Lot# of pH strip: Original pH: < <input type="checkbox"/> or > <input type="checkbox"/> 2 <input type="checkbox"/> 9 <input type="checkbox"/> 12 <input type="checkbox"/> or received Neutral <input type="checkbox"/> Lot# of Iodine strip: Lot# of Lead Acetate strip: |
| Do containers require preservation at the lab | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> 14b. Preservation: Lot# and adjusted pH: pH<2 <input type="checkbox"/> pH>9 <input type="checkbox"/> pH>12 <input type="checkbox"/> |
| All containers needing preservation are found to be in Compliance with EPA recommendation | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> 14c. |
| Exception: VOA, coliform, O&G | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| Are soil samples (volatiles) received in Bulk <input type="checkbox"/> Terracore <input type="checkbox"/> EnCore <input type="checkbox"/> NA <input checked="" type="checkbox"/> | 15. |
| Trip Blank present | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> 16. |
| Trip Blank Custody Seals Intact | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> |
| Pace Trip Blank Lot# (if purchased): | |
| Headspace in VOA (>6mm) | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/> 17. |
| Project sampled in USDA Regulated Area: | Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/> 18. List State _____ |

Client Notification/Resolution/Comments:

Person Contacted: _____ Date: _____

Comments/Resolution: _____

Person Examining Contents: TS

Date: 8/15/17 Project Manager Review: _____

MM

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

| Client Name: | | Conoco Phillips | | Site Manager: | | Ike Tavarez | | ANALYSIS REQUEST (Circle or Specify Method No.) | | | | | | | | | | | | | | | | | |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------|-------------|---------------|--------------------------------------|-------------|-----------------|----------------------------------------------------|---------------|------|--------------|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------------------|--------------|----------------|----------|--|--|--|--|--|--|--|
| Project Name: | EVGSAU Inj. Header 4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Location: (county, state) | Lea Co NM | | Project #: | 212C-MD-00937 | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | |
| LAB # (LAB USE ONLY) | SAMPLE IDENTIFICATION | | | | | | | SAMPLING YEAR: | TIME | DATE | WATER | SOIL | HCl | HNO ₃ | ICE | # CONTAINERS | FILTERED (Y/N) | REMARKS: | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| 001 | COP EVGSAU HDR SB-1 (0'-6") | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 002 | COP EVGSAU HDR SB-1 (6"-1') | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 003 | COP EVGSAU HDR SB-1 (2'-3') | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 004 | COP EVGSAU HDR SB-1 (4'-5") | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 005 | COP EVGSAU HDR SB-1 (6'-7") | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 006 | COP EVGSAU HDR SB-1 (9'-10") | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 007 | COP EVGSAU HDR SB-1 (14-15") | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 008 | COP EVGSAU HDR SB-2 (0'-6") | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 009 | COP EVGSAU HDR SB-2 (6"-1') | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| 010 | COP EVGSAU HDR SB-2 (2'-3') | | | | | | | 8/4/2017 | X | X | X | X | X | X | X | X | | | | | | | | | |
| Relinquished by: Clint Merritt | Date: 8/14/17 | | Time: 17:00 | | Received by: <i>Clint Merritt</i> | | Date: 8/15/2017 | | Time: 08:50 | | LAB USE ONLY | | | | | | | | | | | | | | |
| Relinquished by: | | | | | | | | | | | | | <input type="checkbox"/> RUSH: Same Day <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 72 hr <input type="checkbox"/> Rush Charges Authorized | | | | | | | | | | | | |
| Relinquished by: | | | | | | | | | | | | | <input type="checkbox"/> Special Report Limits or TRRP Report | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | (Circle) HAND DELIVERED <input checked="" type="checkbox"/> FEDEX UPS Tracking #: <i>7420 8979 1910</i> | | | | | | | | | | |

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

Client Name: Conoco Phillips

EVGSAU Inj. Header 4

4000 N. Big Spring Street, Ste
401 Midland, Texas 79705

Tel (432) 682-4559

Fax (432) 682-3946

Site Manager:

Ike Tavarez

(Circle or Specify Method No.)

Project #: 212C-MD-00937

ANALYSIS REQUEST

Hold

Ammonium/Cation Balance

General Water Chemistry (see attached list)

Chloride Sulfate TDS

Chloride

PLM (Asbestos)

NORM

PCBs 8082 / 608

GC/MS Vol. 8260B / 624

GC/MS Semi Vol. 8270C/625

PCMs Vol. 8260B / 624

RCI

TCLP Semi Volatiles

TCLP Volatiles

Total Metals Ag As Ba Cd Cr Pb Se Hg

PAH 8270C

TPH 8015M (GRO - DRO - ORO - MRO)

TPH TX1005 (Ex1 to C35)

BTEX 8021B BTEX 8260B

FILTRATED (Y/N)

CONTAINERS

WATER

TIME

DATE

SAMPLING

MATRIX

PRESERVATIVE METHOD

HClO₄HNO₃

ICE

SOIL

YEAR:

SAMPLE IDENTIFICATION

LAB # (LAB USE ONLY)

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

Received by: Date: Time: Received by: Date: Time: Received by: Date: Time:

Relinquished by: Date: Time: Relinquished by: Date: Time: Relinquished by: Date: Time:

REMARKS: LAB USE ONLY

RUSH: Same Day 24 hr 48 hr 72 hr

Sample Temperature

Rush Charges Authorized

Special Report Limits or TRRP Report

(Circle) HAND DELIVERED UPS FEDEX Tracking #: 7420 8979 9107420 8979 910

15/7/2017

4, 5, 4, 2

ORIGINAL COPY

Analysis Request of Chain of Custody Record

Tetra Tech, Inc.

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

Client Name: Conoco Phillips

Project Name: EVGSAU Inj. Header 4

Site Manager: Ike Tavarez

Project Location: (county, state) Lea Co NM

Project #: 212C-MD-00937

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 # (<small>LAB USE ONLY</small>) | SAMPLE IDENTIFICATION | SAMPLING DATE: 04/2017 | MATRIX TIME: | # CONTAINERS | FILTERED (Y/N) | REMARKS: | |
| 021 | COP EVGSAU HDR SB-3 (14-15') | X | X | 1 | X | <input type="checkbox"/> RUSH: Same Day | <input type="checkbox"/> Rush Charges Authorized |
| | | | | | | Date: Time: 8/14/17 17:00 | Sample Temperature |
| | | | | | | Date: Time: 8/15/17 0850 | 4,5,4,2 |
| | | | | | | Date: Time: Received by: Clint Merritt | Original COPY |
| | | | | | | Date: Time: Received by: | <input type="checkbox"/> Special Report Limits or TRRP Report |
| | | | | | | Date: Time: Received by: | 7420 8979 1910 |
| | | | | | | Date: Time: Received by: | 7420 8979 1909 |

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 (<i>Gaillardia</i>) | 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>.

