

April 19, 2021

District Supervisor
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Release Characterization, Remediation and Closure Report

ConocoPhillips

SEMU Permian #015 Stuffing Box Release

Unit Letter L, Section 19, Township 20 South, Range 38 East

Lea County, New Mexico Incident ID: nAPP2102053788

Sir or Madam:

Tetra Tech, Inc. (Tetra Tech) was contacted by ConocoPhillips (COP) to assess a release that occurred from the stuffing box at the Southeast Monument Unit (SEMU) Permian #015 (API # 30-025-07810) wellhead. The release footprint is located within Public Land Survey System (PLSS) Unit Letter L, Section 19, Township 20 South, Range 38 East, in Lea County, New Mexico (Site). The approximate release point occurred at coordinates 32.55679°, -103.19431°, as shown on Figures 1 and 2.

BACKGROUND

According to the State of New Mexico C-141 Initial Report (Appendix A), the release was discovered on January 19, 2021. As documented on the C-141 form, an unplanned release from equipment failure at the stuffing box resulted in the release of approximately 14 barrels (bbls) of produced water and 2 bbls of crude oil.

The release extent was reported as starting on the developed well pad and spreading into the adjacent pasture to the south. The approximate release extent is shown in Figure 3. No materials were recovered after the release. The C-141 report form for the release was submitted to the New Mexico Oil Conservation District (NMOCD) on March 4, 2021. The NMOCD assigned this release Incident ID nAPP2102053788.

SITE CHARACTERIZATION

A site characterization was performed and no watercourses, sinkholes, residences, schools, hospitals, institutions, churches, springs, private domestic water wells, springs, playa lakes, wetlands, incorporated municipal boundaries, subsurface mines, or floodplains are located within the distances specified in 19.15.0029 New Mexico Administrative Code (NMAC). The Site is in an area of low karst potential.

According to the New Mexico Office of the State Engineers (NMOSE) reporting system, there are no water wells within a ½-mile (800-meter) radius of the Site. The radius search was initially expanded to a 1-mile (1600-meter) radius and finally a 2400-meter radius before water wells were located. There are two (2) water wells within a 2400-meter radius with an average depth to groundwater at 84 feet below ground surface (bgs). The site characterization data is included in Appendix B.

Tetra Tech

Release Characterization, Remediation and Closure Report April 19, 2021

ConocoPhillips

REGULATORY FRAMEWORK

Based upon the release footprint and in accordance with Subsection E of 19.15.29.12 NMAC, per 19.15.29.11 NMAC, the site characterization data was used to determine recommended remedial action levels (RRALs) for benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX), total petroleum hydrocarbons (TPH), and chlorides in soil.

Based on the site characterization and in accordance with Table I of 19.15.29.12 NMAC, the Site RRALs for the on-pad areas at the release Site are as follows:

| Constituent | Site RRALs | |
|-------------|--------------|--|
| Chloride | 10,000 mg/kg | |
| TPH | 2,500 mg/kg | |
| BTEX | 50 mg/kg | |

Additionally, in accordance with the NMOCD guidance *Procedures for Implementation of the Spill Rule* (19.15.29 NMAC) (September 6, 2019), the following reclamation requirements for surface soils (0-4 ft bgs) outside of active oil and gas operations are as follows:

| Constituent | Reclamation Requirements |
|-------------|--------------------------|
| Chloride | 600 mg/kg |
| TPH | 100 mg/kg |
| BTEX | 50 mg/kg |

SITE ASSESSMENT

In order to properly characterize the release footprint and achieve horizontal and vertical delineation of the release extent, Tetra Tech personnel conducted soil sampling for the initial assessment. A total of eight (8) borings were installed within and outside the release footprint using a hand auger on February 24, 2021. Six (6) borings (AH-1 through AH-6) were installed along the perimeter of the release extent to achieve horizontal delineation. Two (2) borings (AH-7 and AH-8) were installed inside the release area footprint to achieve vertical delineation. Atop the caliche pad surface, refusal was met at 6 inches bgs at boring location AH-7. Soil samples collected were field screened for salinity parts per million (ppm) using an ExStik II EC 400 meter. The approximate release extent and boring locations are shown in Figure 3.

A total of eleven (11) samples were collected from the eight (8) boring locations and submitted to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico to be analyzed for chlorides via EPA Method 4500.0, TPH via EPA Method 8015M, and BTEX via EPA Method 8021B. A copy of the laboratory analytical report and chain-of-custody documentation are included in Appendix C. Photographic documentation of the release extent is included in Appendix D.

SUMMARY OF SAMPLING RESULTS

Results from the February 2021 soil sampling event are summarized in Table 1. The analytical results associated with the boring location AH-7 exceeded the reclamation requirement for chloride (600 mg/kg) and the Site RRAL for TPH (2,500 mg/kg) in the (0'- 0.5') bgs sample interval. Boring location AH-3 exceeded the reclamation requirement for TPH (100 mg/kg) in the (0'- 1') bgs sample interval. Analytical results associated with boring location AH-8 exceeded the reclamation requirements for BTEX (50 mg/kg) and/or TPH (100 mg/kg) down to depth of 3 feet bgs. There were no other analytical results which exceeded the Site RRALs or reclamation requirements in samples collected during the February 2021 soil assessment. After review of the analytical results from the sampling event, both horizontal and vertical delineation was achieved following the February 2021 soil assessment activities.

Release Characterization, Remediation and Closure Report April 19, 2021

ConocoPhillips

REMEDIATION ACTIVITIES AND CONFIRMATION SAMPLING

In accordance with 19.15.29.12 B (2) NMAC, COP elected to begin remediation of the impacted area in March 2021. Based on the analytical results from the soil assessment, impacted soil atop the caliche pad was excavated to a depth of 1-foot bgs, and impacted soil in the off-pad pasture areas was excavated to depths ranging from 1 to 4 feet bgs. Initial excavation continued until a representative sample from the walls and bottom of the excavation had a field screening value inferred as lower than the RRALs for the Site. Each confirmation sample laboratory analytical result was directly compared to the proposed RRALs and/or reclamation requirements to demonstrate compliance.

In accordance with 19.15.29.12(D)(1)(b) NMAC, ConocoPhillips conducted confirmation sampling of the remediated area for verification of remedial activities where each sidewall and floor sample was representative of approximately 200 square feet. Confirmation sidewall (SW) sample locations were categorized with the cardinal direction (N, E, S, W) followed by SW-#. Confirmation floor sample locations are labeled with either "FLOOR-#" or "FL-#". Selected areas required additional excavation to collect a representative sample that was below the respective RRAL for that location. As the analytical results associated with these sample locations exceeded the respective RRAL, additional excavation was conducted at those locations until field screening results indicated closure criteria were attained.

Iterative confirmation samples were located to encompass the original sample locations that triggered removal post-additional excavation. If the sidewall area was expanded due to unacceptable confirmation sample results, the parentheses indicate the expansion iteration. For floor samples, the parentheses indicate the excavation floor depth from which the sample was collected. Excavated areas, depths and confirmation sample locations are shown in Figure 4.

Initial analytical results associated with confirmation floor samples Floor-7 and Floor-8 (on and off-pad areas) exceeded the reclamation requirements. Thus, the excavation floor was deepened to 4 feet bgs in these areas and additional floor samples were collected. Analytical results from confirmation sidewall sample locations WSW-2 and SSW-1 (off-pad areas) exceeded the reclamation requirements and necessitated expansion to the west and south, respectively. Iterative confirmation samples were collected after expansion of the excavation walls in these areas. At on-pad sidewall location NSW-2, analytical results exceeded the remediation RRAL for TPH. The sidewall was expanded to the north, and an additional sidewall sample (NSW-2 (4')) was collected. Analytical results associated with this on-pad location were below the remediation RRALs for TPH. Approximately 300 cubic yards of excavated material were transported to the R360 facility in Hobbs, New Mexico. Copies of the waste manifests are included in Appendix E.

A total of fifteen (15) confirmation floor sample locations and twenty-seven (27) confirmation sidewall samples were collected during the remedial activities in March and April 2021. Confirmation samples were placed into laboratory-provided sample containers, transferred under chain-of-custody, and analyzed for TPH, BTEX, and chloride within appropriate holding times by Cardinal. Copies of the laboratory analytical reports and chain-of-custody documentation are included in Appendix C.

Following iterative sampling, all confirmation sidewall and floor sample results were below the 19.15.29.12 NMAC Table I closure criteria. In accordance with 19.15.29.13 (D) NMAC, analytical results for soils collected above 4 feet bgs in the off-pad pasture areas were below reclamation requirements for soil 0-4 feet bgs. Results from the March and April 2021 confirmation sampling events are summarized in Table 2.

The total remediated area encompassed a surface area of approximately 2,700 square feet. The excavated areas were backfilled post-confirmation sample collection and upon receiving analytical results below the applicable RRALs. The impacted surface area occurring on the developed pad at the site was remediated to meet the standards of Table I of 19.15.29.12 NMAC. On-site reclamation and restoration will occur once the well is plugged and operations have ceased at this active well pad.

The backfilled areas in the pasture were seeded to aid in revegetation. The remediated/reclaimed area was seeded in April 2021. Based on the soils at the site, the New Mexico State Land Office (NMSLO) Sandy

Release Characterization, Remediation and Closure Report April 19, 2021

ConocoPhillips

(S) Sites Seed Mixture was used for seeding and planted in the amount specified in the pounds pure live seed (PLS) per acre.

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.

CONCLUSION

ConocoPhillips has completed remediation at the release site. This final closure report has been submitted within 90 days of discovery of the release. This final closure report details the release characterization and remediation activities and the results of the confirmation sampling. As noted, final on-site reclamation and restoration will occur once the well is plugged and operations have ceased at this active well pad.

If you have any questions concerning the soil assessment, the remediation work, or confirmation sampling for the Site, please call me at (512) 338-2861.

Sincerely,

Tetra Tech, Inc.

Christian M. Llull, P.G.

Project Manager

CC

Mr. Marvin Soriwei, RMR – ConocoPhillips Ms. Kelsy Waggaman, GPBU – ConocoPhillips Release Characterization, Remediation and Closure Report April 19, 2021

ConocoPhillips

LIST OF ATTACHMENTS

Figures:

Figure 1 – Overview Map

Figure 2 – Site Location/Topographic Map

Figure 3 – Approximate Release Extent and Initial Assessment

Figure 4 – Remedial Activities and Confirmation Sampling Locations

Tables:

Table 1 – Summary of Analytical Results – Soil Assessment

Table 2 – Summary of Analytical Results – Confirmation Sampling

Appendices:

Appendix A – C-141 Forms

Appendix B – Site Characterization Data

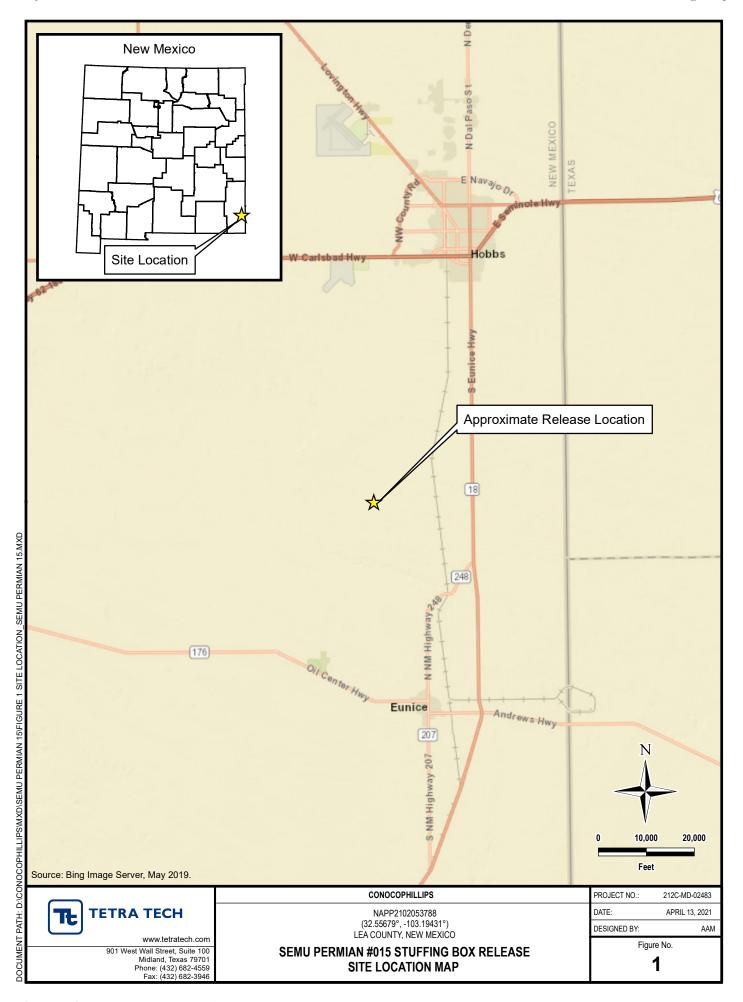
Appendix C - Laboratory Analytical Data

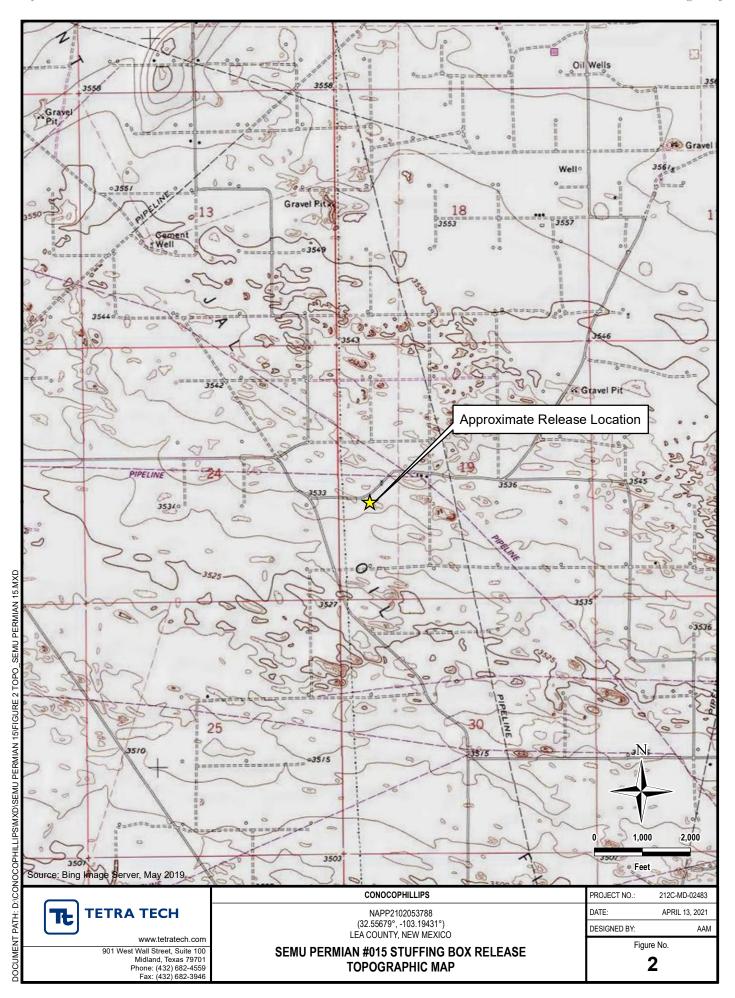
Appendix D – Photographic Documentation

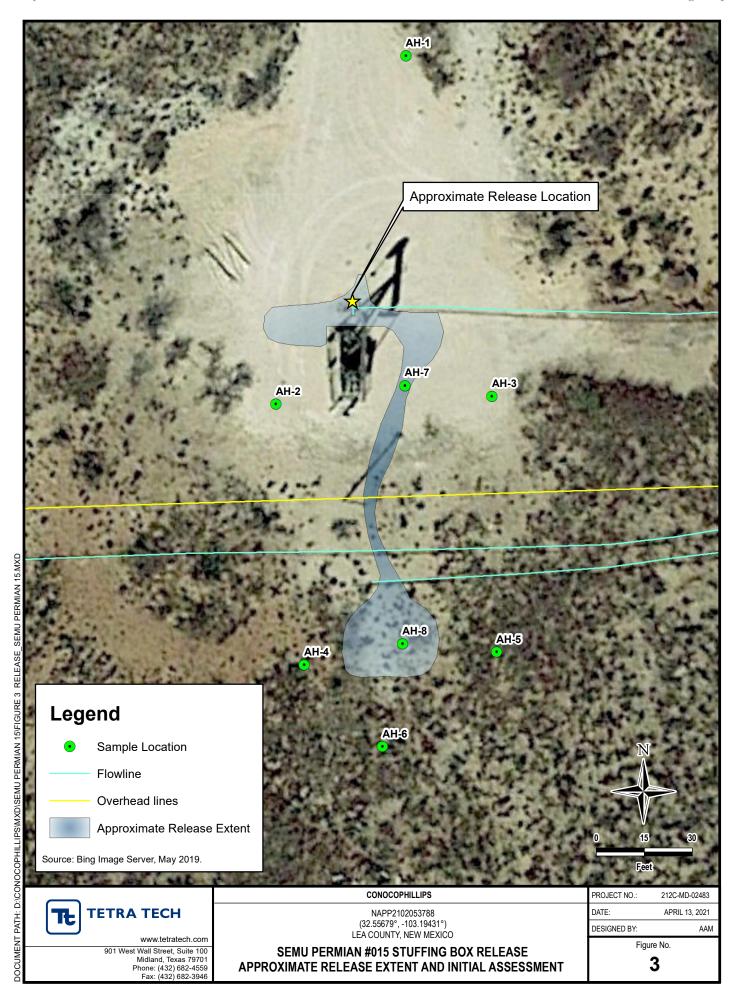
Appendix E – Waste Manifests

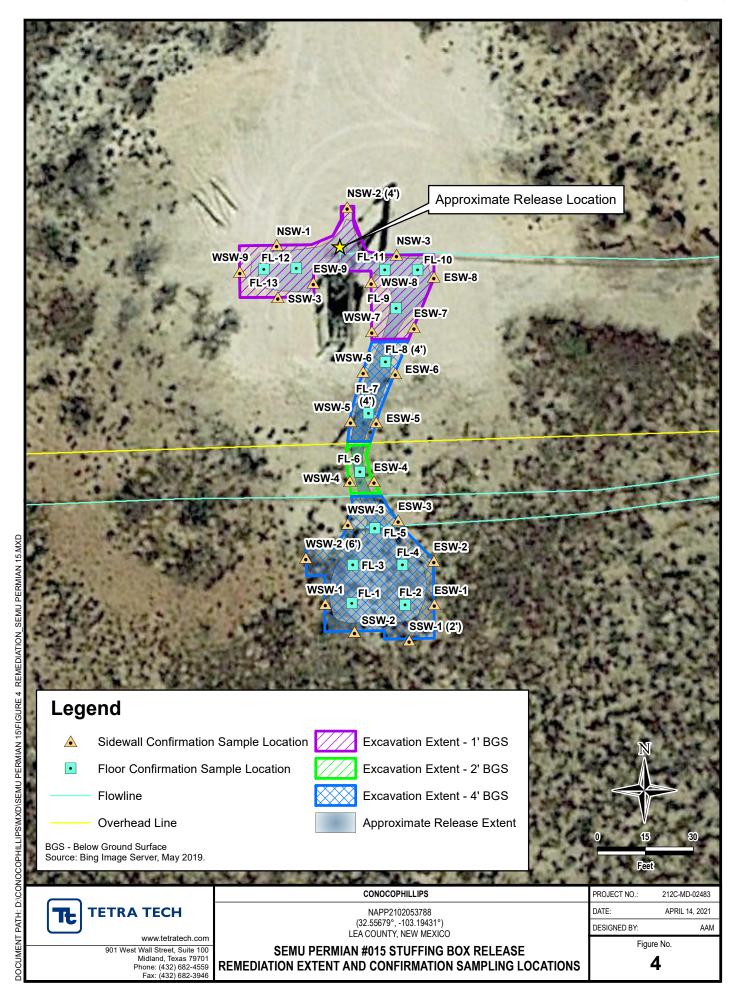
Appendix F – NMSLO Seed Mixture Details

FIGURES









TABLES

Bold and italicized values indicate exceedance of proposed RRALs

TABLE 1 SUMMARY OF ANALYTICAL RESULTS SOIL ASSESSMENT - NAPP2102053788

CONOCOPHILLIPS SEMU PERMIAN #015 STUFFING BOX RELEASE

LEA COUNTY, NM

| | | | Field Screening Results | ud Sergoning Posults | | | | BTEX ² | | | | | | | | | TPH ³ | | | | | | |
|-----------|-------------|--------------------------|-------------------------|-----------------------|-----------------------|---------|-----------------------|-------------------|---|--------------|---|--------------|----|---------------|---|----------------------------------|------------------|-------------------------------------|-------------------------------------|-------------------|---------|-----------|--|
| Sample ID | Sample Date | Sample Depth Interval | rieid Screening Results | Chloride ¹ | Chloride ¹ | | Chloride ¹ | | | Taluana | | Ethylbenzene | | Total Xylenes | | Total BTEX | | GRO | | DRO | EXT DRO | Total TPH | |
| Sample 1D | Sample Date | interval | Chloride | | | Benzene | | Toluene | | Ethylbenzene | = | Total Aylene | :5 | TOTAL | | C ₆ - C ₁₀ | | > C ₁₀ - C ₂₈ | > C ₂₈ - C ₃₆ | (GRO+DRO+EXT DRO) | | | |
| | | ft. bgs | ppm | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg Q | mg/kg Q | mg/kg | | | |
| AH-1 | 2/24/2021 | 0-0.5 | 105 | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | < 10.0 | - | | | |
| AH-2 | 2/24/2021 | 0-1 | 37.8 | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | < 10.0 | - | | | |
| AH-3 | 2/24/2021 | 0-1 | 31.8 | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 50.0 | | 133 | 124 | 257 | | | |
| AH-4 | 2/24/2021 | 0-1 | 38.6 | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | < 10.0 | - | | | |
| AH-5 | 2/24/2021 | 0-1 | 109 | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | < 10.0 | - | | | |
| AH-6 | 2/24/2021 | 0-1 | 57.6 | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | < 10.0 | - | | | |
| AH-7 | 2/24/2021 | 0-0.5 | - | 7,040 | | < 0.050 | | 0.219 | | 3.09 | | 12.6 | | 15.9 | | 495 | | 12,100 | 2,380 | 14,975 | | | |
| | | 0-1 | - | 576 | | 10.5 | | 125 | | 121 | | 263 | | 521 | | 6,020 | | 19,100 | 3,700 | 28,820 | | | |
| AH-8 | 2/24/2021 | 1-2 | - | 32.0 | | < 0.050 | | 3.34 | | 6.54 | | 16.6 | | 26.5 | | 311 | | 1,230 | 315 | 1,856 | | | |
| АП-б | 2/24/2021 | 2-3 | - | 192 | | < 0.050 | | 0.275 | | 0.815 | | 2.34 | | 3.43 | | 53.9 | | 562 | 136 | 752 | | | |
| | | 3-4 | 29.7 | 32.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | < 10.0 | - | | | |

NOTES:

ft. Feet

bgs Below ground surface

ppm Parts per million

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

1 Method SM4500Cl-B

2 EPA Method 8021B

3 EPA Method 8015M

Received by OCD: 4/19/2021 2:38:31 PM

TABLE 2

SUMMARY OF ANALYTICAL RESULTS SOIL REMEDIATION - NAPP2102053788

CONOCOPHILLIPS

SEMU PERMIAN #015 STUFFING BOX RELEASE

| LEA | COL | INT | ۱, | NM |
|-----|-----|-----|----|----|
|-----|-----|-----|----|----|

| | | | | | BTEX ² | | | | | | | TPH ³ | | | | | | | | | |
|---------------|-------------|--------------|-----------------------|---|-------------------|---------|---------|-----|--------------|---|--------------|------------------|------------|----------|----------------------------------|---|-------------------------------------|----|-------------------------------------|---|--------------------------------|
| | | Sample Depth | Chloride ¹ | | | | | | RIFX | | | | | | GRO | | DRO | IΡ | EXT DRO | | |
| Sample ID | Sample Date | Sample Depth | cilionae | | Benzene | | Toluene | | Ethylbenzene | | Total Xylene | 5 | Total BTEX | | C ₆ - C ₁₀ | | > C ₁₀ - C ₂₈ | | > C ₂₈ - C ₃₆ | | Total TPH (GRO+DRO+EXT DRO) |
| | | ft. bgs | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg | Q | mg/kg |
| Floor-1 | 3/30/2021 | 4 | 240 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-2 | 3/30/2021 | 4 | 32.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-3 | 3/30/2021 | 4 | 1,890 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 17.0 | | < 10.0 | | 17.0 |
| Floor-4 | 3/30/2021 | 4 | 528 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 141 | | 16.2 | | 157 |
| Floor-5 | 3/30/2021 | 4 | 1,790 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-6 | 3/30/2021 | 2 | 272 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-7 | 3/30/2021 | 2 | 624 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-7 (4')* | 4/13/2021 | 4 | 1,310 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-8 | 3/30/2021 | 1 | 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 9,400 | | 3,590 | | 12,990 |
| Floor-8 (4')* | 4/13/2021 | 4 | 752 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-9 | 3/30/2021 | 1 | 960 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-10 | 3/30/2021 | 1 | 160 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| Floor-11 | 3/30/2021 | 1 | 896 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 71.5 | | 17.8 | | 89.3 |
| Floor-12 | 3/30/2021 | 1 | 288 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 30.5 | | < 10.0 | | 30.5 |
| Floor-13 | 3/30/2021 | 1 | 208 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | |
| NSW-1 | 3/30/2021 | - | 240 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | T | < 10.0 | | |
| NSW-2 | 3/30/2021 | | 432 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 1,660 | | 943 | | 2,603 |
| NSW-2 (4')* | 4/13/2021 | | 576 | | < 0.050 | | < 0.050 | | < 0.050 | - | < 0.150 | | < 0.300 | | < 10.0 | | 209 | | 80.7 | | 290 |
| NSW-3 | 3/30/2021 | - | 144 | | < 0.050 | + | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| | | | | + | | +-1 | | + + | | _ | | | | | | | | + | | + | |
| ESW-1 | 3/30/2021 | - | 64.0 | | < 0.050 | + | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 21.2 | + | < 10.0 | | 21.2 |
| ESW-2 | 3/30/2021 | - | 368 | | < 0.050 | + | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | + | < 10.0 | | - |
| ESW-3 | 3/30/2021 | - | 32.0 | | < 0.050 | \perp | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | - | < 10.0 | - | - |
| ESW-4 | 3/30/2021 | - | 32.0 | | < 0.050 | | < 0.050 | | < 0.050 | _ | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| ESW-5 | 3/30/2021 | - | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | _ | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| ESW-6 | 3/30/2021 | - | 32.0 | | < 0.050 | | < 0.050 | | < 0.050 | _ | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| ESW-7 | 3/30/2021 | - | 176 | | < 0.050 | | < 0.050 | | < 0.050 | _ | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| ESW-8 | 3/30/2021 | - | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | _ | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| ESW-9 | 3/30/2021 | - | 32.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| SSW-1 | 3/30/2021 | - | 1,040 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| SSW-1 (2')* | 4/13/2021 | - | 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| SSW-2 | 3/30/2021 | - | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| SSW-3 | 3/30/2021 | - | 112 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | - |
| WSW-1 | 3/30/2021 | - | 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | < 10.0 |
| WSW-2 | 3/30/2021 | - | 32.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | 45.8 | | 62.4 | | 108 |
| WSW-2 (6')* | 4/13/2021 | - | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | < 10.0 |
| WSW-3 | 3/30/2021 | - | 352 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | < 10.0 |
| WSW-4 | 3/30/2021 | - | 64.0 | | < 0.050 | П | < 0.050 | П | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | < 10.0 |
| WSW-5 | 3/30/2021 | - | < 16.0 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | T | < 10.0 | T | < 10.0 |
| WSW-6 | 3/30/2021 | - | 48.0 | | < 0.050 | П | < 0.050 | П | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | | < 10.0 | | < 10.0 |
| WSW-7 | 3/30/2021 | - | 496 | | < 0.050 | | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | | < 10.0 | | < 10.0 | T | < 10.0 | T | < 10.0 |
| WSW-8 | 3/30/2021 | - | 128 | | < 0.050 | \Box | < 0.050 | | < 0.050 | | < 0.150 | | < 0.300 | † | < 10.0 | | < 10.0 | 1 | < 10.0 | | < 10.0 |
| | | | | - | | - | | | | | | | | | | | | | | | |

NOTES:

ft. Feet

bgs Below ground surface

mg/kg Milligrams per kilogram

TPH Total Petroleum Hydrocarbons

GRO Gasoline range organics

DRO Diesel range organics

Method SM4500Cl-B
 EPA Method 8021B

3 EPA Method 8015M

Bold and italicized values indicate exceedance of proposed RRALs

Gold highlight represents soil horizons that were removed during deepening of excavation floors.

 $Green \ highlight \ represents soil \ intervals \ that \ were \ removed \ during \ horizontal \ expansion \ of \ excavation \ sidewalls.$

These iterative samples are located to encompass the original sample location that triggered removal, with further excavation in each area indicated in ().

APPENDIX A C-141 Forms

Received by OCD: 4/19/2021 2:38:31 PM

1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District II 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 Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Page 15 of 137
Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

| Incident ID | NAPP2102053788 |
|----------------|----------------|
| District RP | |
| Facility ID | |
| Application ID | |

Release Notification

Responsible Party

| Responsible Party ConocoPhillips Company | OGRID 217817 | | | | | |
|---|---|--|--|--|--|--|
| Contact Name Kelsy Waggaman | Contact Telephone 505-577-9071 | | | | | |
| Contact email kelsy.waggaman@conocophillips.com | Incident # (assigned by OCD) nAPP2102053788 | | | | | |
| Contact mailing address 29 Vacuum Complex Lane, Lovington, NM 88260 | | | | | | |

Location of Release Source

| Latitude 32. (NAD 83 in decim | 556789 <u>4</u> al degrees to 5 | decimal places) | 1 1 | Lon | gitude-103.1943054 | |
|-------------------------------|------------------------------------|-----------------|-------|-----|--------------------------------|-----------------|
| Site Name S | SEMU PERN | MIAN #015 | | | Site Type Well pad, on an | nd off location |
| Date Release | Discovered | 1/19/2021 | | | API# (if applicable):30-025-07 | 7810 |
| Unit Letter | Section | Township | Range | | County | |

| L | 19 | 20S | 38E | Lea | |
|---------------|---------|------------------|----------------|-----|---|
| Surface Owner | : State | X Federal Tribal | Private (Name: | | Y |

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

| [X Crude Oil | Volume Released (bbls) 2 Barrels | Volume Recovered (bbls) 0 |
|--------------------------|--|---|
| [X Produced Water | Volume Released (bbls) 14 BBls | Volume Recovered (bbls) 0 |
| | Is the concentration of dissolved chloride in the produced water >10,000 mg/l? | X! Yes \(\subseteq No |
| Condensate | Volume Released (bbls) | Volume Recovered (bbls) |
| ☐ Natural Gas | Volume Released (Mcf) | Volume Recovered (Mcf) |
| Other (describe) | Volume/Weight Released (provide units) | Volume/Weight Recovered (provide units) |
| Cause of Release - Equip | oment Failure, Stuffing Box Leak | • |
| | | |
| | | |
| | | |
| | | |

Received by OCD: 4/19/2021 2:38:31 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

| | rage 10 of 1 |
|----------------|----------------|
| Incident ID | NAPP2102053788 |
| District RP | |
| Facility ID | |
| Application ID | |

| Was this a major | If YES, for what reason(s) does the response | onsible party consider this a major release? |
|---|---|--|
| release as defined by 19.15.29.7(A) NMAC? | | |
| ☐ Yes ່≯ No | | |
| ☐ Yes ∧ No | | |
| | | |
| If YES, was immediate no | Lotice given to the OCD? By whom? To w | thom? When and by what means (phone, email, etc)? |
| · | , | · |
| | | |
| | Initial F | esponse |
| The responsible | party must undertake the following actions immediat | ely unless they could create a safety hazard that would result in injury |
| S | | |
| The source of the rele | | |
| | is been secured to protect human health an | |
| | | dikes, absorbent pads, or other containment devices. |
| | ecoverable materials have been removed a | |
| If all the actions described | d above have <u>not</u> been undertaken, explain | why: |
| | | |
| | | |
| | | |
| | | |
| Per 19.15.29.8 B. (4) NM | IAC the responsible party may commence | remediation immediately after discovery of a release. If remediation |
| has begun, please attach | a narrative of actions to date. If remedia | efforts have been successfully completed or if the release occurred |
| | | please attach all information needed for closure evaluation. |
| | | best of my knowledge and understand that pursuant to OCD rules and tifications and perform corrective actions for releases which may endanger |
| public health or the environs | ment. The acceptance of a C-141 report by the | OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In |
| addition, OCD acceptance o | f a C-141 report does not relieve the operator of | f responsibility for compliance with any other federal, state, or local laws |
| and/or regulations. | | |
| | Vaggaman | |
| Signature: Kelyli |) ag | Date: 3/4/21 |
| V | | |
| emaii:Keisy.waggamai | n@conocopnilips.com | Telephone: 505-577-9071 |
| | | |
| OCD Only | | |
| Received by: Ramons | a Marcus | Date: 3/22/2021 |
| | | · |

Received by OCD: 4/19/2021 2:38:31 PM Form C-141 State of New Mexico Page 3 Oil Conservation Division

| Incident ID | |
|----------------|--|
| District RP | |
| Facility ID | |
| Application ID | |

Site Assessment/Characterization

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$

| What is the shallowest depth to groundwater beneath the area affected by the release? | (ft bgs) |
|--|-----------------------|
| Did this release impact groundwater or surface water? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 1000 feet of any other fresh water well or spring? | ☐ Yes ☐ No |
| Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field? | ☐ Yes ☐ No |
| Are the lateral extents of the release within 300 feet of a wetland? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying a subsurface mine? | ☐ Yes ☐ No |
| Are the lateral extents of the release overlying an unstable area such as karst geology? | ☐ Yes ☐ No |
| Are the lateral extents of the release within a 100-year floodplain? | ☐ Yes ☐ No |
| Did the release impact areas not on an exploration, development, production, or storage site? | ☐ Yes ☐ No |
| Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics. | tical extents of soil |
| Characterization Report Checklist: Each of the following items must be included in the report. | |
| Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps Laboratory data including chain of custody | S. |

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Received by OCD: 4/19/2021 2:38:31 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

| | Page 18 of 1. | <i>37</i> |
|----------------|---------------|-----------|
| Incident ID | | |
| District RP | | |
| Facility ID | | |
| Application ID | | |

| I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations. | tifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have reat to groundwater, surface water, human health or the environment. In |
|--|--|
| Printed Name: | |
| Signature: | Date: |
| email: | Telephone: |
| | |
| OCD Only | |
| Received by: | Date: |
| | |

Received by OCD: 4/19/2021 2:38:31 PM Form C-141 State of New Mexico Page 5 Oil Conservation Division

| | Page 19 of 137 |
|----------------|----------------|
| Incident ID | |
| District RP | |
| Facility ID | |
| Application ID | |

Remediation Plan

| Remediation Plan Checklist: Each of the following items must b | e included in the plan |
|--|---|
| Remediation I fan Checknist. Each of the following tiems must b | e included in the plan. |
| Detailed description of proposed remediation technique | |
| Scaled sitemap with GPS coordinates showing delineation poin | ts |
| Estimated volume of material to be remediated | |
| Closure criteria is to Table 1 specifications subject to 19.15.29. | 12(C)(4) NMAC |
| Proposed schedule for remediation (note if remediation plan tin | neline is more than 90 days OCD approval is required) |
| | |
| | |
| <u>Deferral Requests Only</u> : Each of the following items must be con | nfirmed as part of any request for deferral of remediation. |
| Contamination must be in areas immediately under or around p deconstruction. | roduction equipment where remediation could cause a major facility |
| Extents of contamination must be fully delineated. | |
| Contamination does not cause an imminent risk to human healt | h, the environment, or groundwater. |
| | |
| | te to the best of my knowledge and understand that pursuant to OCD |
| | certain release notifications and perform corrective actions for releases |
| which may endanger public health or the environment. The accepta liability should their operations have failed to adequately investigat | |
| surface water, human health or the environment. In addition, OCD | |
| responsibility for compliance with any other federal, state, or local | |
| | |
| Printed Name: | Title: |
| | |
| Printed Name: Signature: | Date: |
| • | |
| email: | Telephone: |
| | |
| OCD Only | |
| <u>-</u> | |
| Received by: | Date: |
| ☐ Approved | Approval |
| | |
| Signature: | Date: |

Received by OCD: 4/19/2021 2:38:31 PM Form C-141 State of New Mexico Page 6 Oil Conservation Division

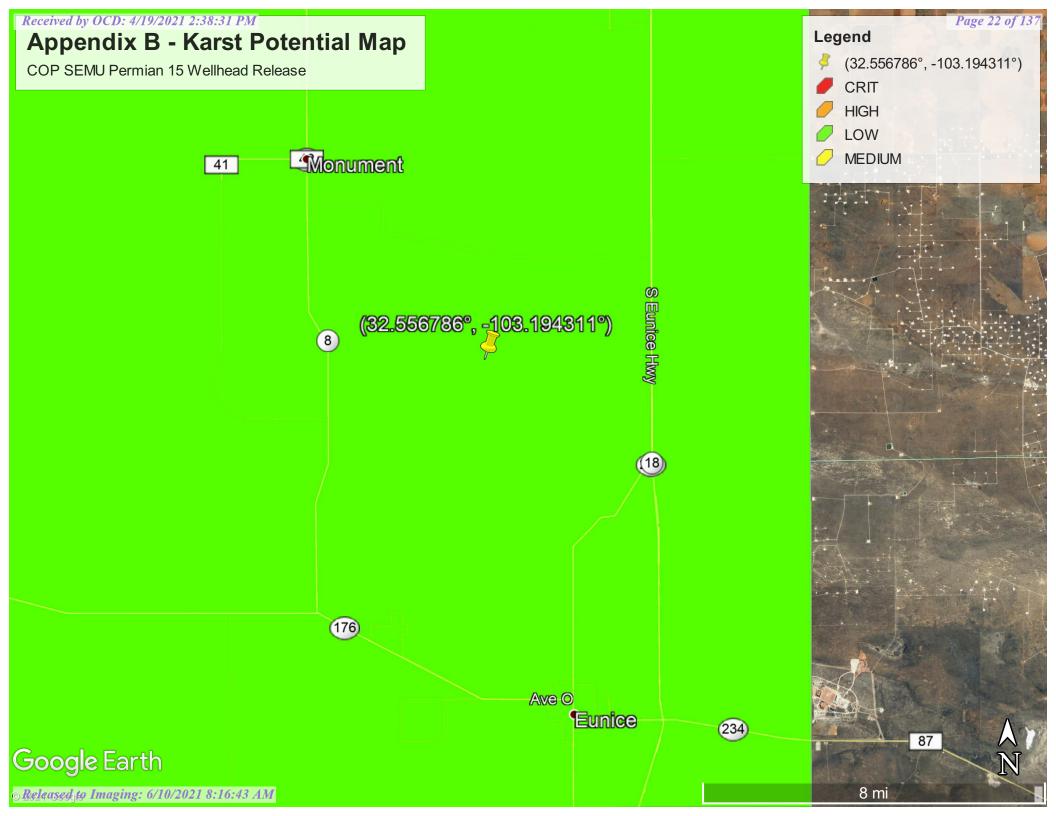
| | Page 20 of 13 | 7 |
|----------------|---------------|---|
| Incident ID | | |
| District RP | | |
| Facility ID | | |
| Application ID | | |

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

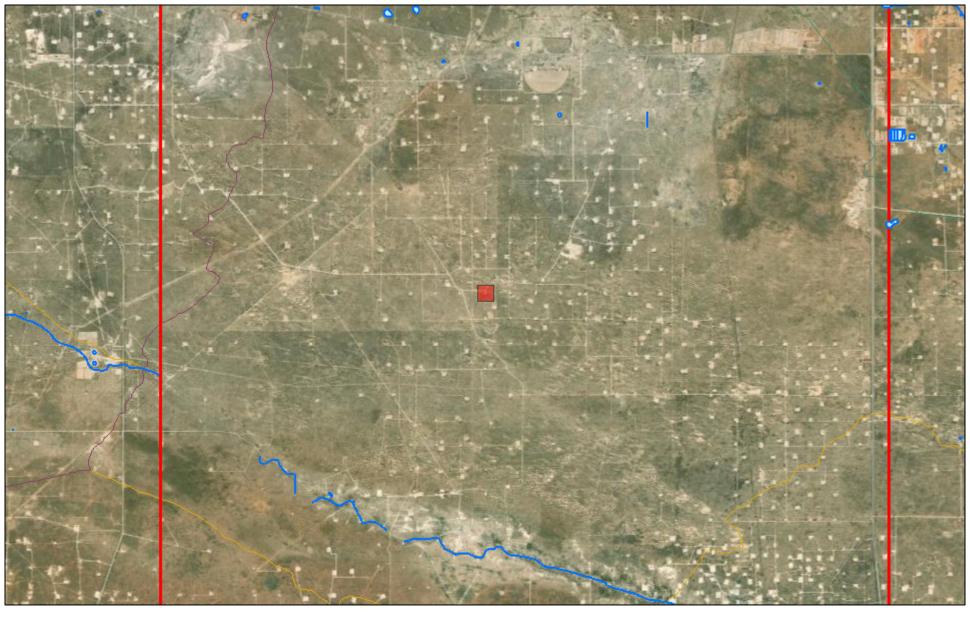
| Closure Report Attachment Checklist: Each of the following is | tems must be included in the closure report. |
|--|---|
| ☐ A scaled site and sampling diagram as described in 19.15.29.1 | 1 NMAC |
| Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection) | of the liner integrity if applicable (Note: appropriate OCD District office |
| Laboratory analyses of final sampling (Note: appropriate ODC | C District office must be notified 2 days prior to final sampling) |
| Description of remediation activities | |
| | |
| and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and rer human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the coaccordance with 19.15.29.13 NMAC including notification to the O | ntions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: |
| email: | Telephone: |
| OCD Only | |
| | D.4 |
| Received by: | Date: |
| | of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations. |
| Closure Approved by: | Date: |
| Printed Name: | Title: |

APPENDIX B Site Characterization Data

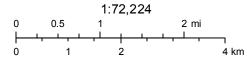


Received by OCD: 4/19/2021 2:38:31 PM

New Mexico NFHL Data



March 4, 2021



Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 669530.752 **Northing (Y):** 3603586.517 **Radius:** 800



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

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 669530.752 Northing (Y): 3603586.517 Radius: 1600

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.



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)

| 3 , | | ١, ١ | | | | | J / (| | , | ` | , | |
|------------|--------------|--------|-------|------|---------|-----|--------|------------|----------|-------|-------|--------|
| | POD | | | | | | | | | | | |
| | Sub- | | QQ | Q | | | | | | Depth | Depth | Water |
| POD Number | Code basin (| County | 64 16 | 4 \$ | Sec Tws | Rng | X | Y | Distance | Well | Water | Column |
| L 04412 S | L | LE | 4 4 | 2 | 13 208 | 37E | 669189 | 3605491* 🌍 | 1934 | 155 | 84 | 71 |
| L 04412 | L | LE | 4 2 | 2 | 13 208 | 37E | 669181 | 3605894* 🌕 | 2333 | 140 | 85 | 55 |

Average Depth to Water: 84 feet

> Minimum Depth: 84 feet

Maximum Depth: 85 feet

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 669530.752 Radius: 2400 Northing (Y): 3603586.517

*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 Laboratory Analytical Data



February 26, 2021

JOE TYLER

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: SEMU PERMIAN 15

Enclosed are the results of analyses for samples received by the laboratory on 02/24/21 15:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 02/24/2021
 Sampling Date:
 02/24/2021

 Reported:
 02/26/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

A .. . l. d D. .. MC

Project Location: LEA CO NM

Sample ID: AH - 1 (0-0.5') (H210456-01)

| BTEX 8021B | mg, | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 104 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: AH - 2 (0-1') (H210456-02)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | 'kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 107 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 114 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: AH - 3 (0-1') (H210456-03)

| BTEX 8021B | mg/ | 'kg | Analyzed By: MS | | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <50.0 | 50.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | 133 | 50.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | 124 | 50.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 99.9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: AH - 4 (0-1') (H210456-04)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 103 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: AH - 5 (0-1') (H210456-05)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 106 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 113 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: AH - 6 (0-1') (H210456-06)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | <0.150 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | <0.300 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/kg | | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 104 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 110 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



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

Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: AH - 7 (0-0.5') (H210456-07)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | S-04 | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | 0.219 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | 3.09 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | 12.6 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | 15.9 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 264 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 7040 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 495 | 50.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| | | | | | | | | | |
| DRO >C10-C28* | 12100 | 50.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |

Cardinal Laboratories

420 %

42.2-156

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine

Surrogate: 1-Chlorooctadecane



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

Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: AH - 8 (0-1') (H210456-08)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | S-04 | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | 10.5 | 1.00 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | 125 | 1.00 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | 121 | 1.00 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | 263 | 3.00 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | 521 | 6.00 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 147 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 576 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 6020 | 100 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | 19100 | 100 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | 3700 | 100 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 402 | % 44.3-14 | 14 | | | | | | |
| Summarata: 1 Chlomocatadagana | 526 | 0/ 12.2.15 | | | | | | | |

Surrogate: 1-Chlorooctadecane 526 % 42.2-156

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celecy D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 02/24/2021
 Sampling Date:
 02/24/2021

 Reported:
 02/26/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: AH - 8 (1'-2') (H210456-09)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | S-04 |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | 3.34 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | 6.54 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | 16.6 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | 26.5 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 193 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 311 | 50.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | 1230 | 50.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | 315 | 50.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 131 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 139 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 02/24/2021
 Sampling Date:
 02/24/2021

 Reported:
 02/26/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: AH - 8 (2'-3') (H210456-10)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/25/2021 | ND | 2.14 | 107 | 2.00 | 6.67 | |
| Toluene* | 0.275 | 0.050 | 02/25/2021 | ND | 2.12 | 106 | 2.00 | 6.38 | |
| Ethylbenzene* | 0.815 | 0.050 | 02/25/2021 | ND | 2.05 | 102 | 2.00 | 6.98 | |
| Total Xylenes* | 2.34 | 0.150 | 02/25/2021 | ND | 5.97 | 99.5 | 6.00 | 6.54 | |
| Total BTEX | 3.43 | 0.300 | 02/25/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 122 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 192 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | 53.9 | 50.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | 562 | 50.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | 136 | 50.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 121 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 132 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 02/24/2021 Sampling Date: 02/24/2021 Reported: 02/26/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: AH - 8 (3'-4') (H210456-11)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 02/26/2021 | ND | 2.23 | 111 | 2.00 | 9.21 | |
| Toluene* | <0.050 | 0.050 | 02/26/2021 | ND | 2.20 | 110 | 2.00 | 9.46 | |
| Ethylbenzene* | <0.050 | 0.050 | 02/26/2021 | ND | 2.14 | 107 | 2.00 | 9.79 | |
| Total Xylenes* | <0.150 | 0.150 | 02/26/2021 | ND | 6.23 | 104 | 6.00 | 9.22 | |
| Total BTEX | <0.300 | 0.300 | 02/26/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 02/25/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 02/25/2021 | ND | 209 | 104 | 200 | 1.66 | |
| DRO >C10-C28* | <10.0 | 10.0 | 02/25/2021 | ND | 212 | 106 | 200 | 2.62 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 02/25/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 108 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 111 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

| S-06 | The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's. |
|-------|--|
| S-04 | The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. |
| QM-07 | The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery. |
| ND | Analyte NOT DETECTED at or above the reporting limit |
| RPD | Relative Percent Difference |
| ** | Samples not received at proper temperature of 6°C or below. |
| *** | Insufficient time to reach temperature. |
| - | Chloride by SM4500Cl-B does not require samples be received at or below 6°C |
| | Samples reported on an as received basis (wet) unless otherwise noted on report |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client is subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

4. Cardinal cannot accent verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| • | (575) 393-2326 FAX (575) 393-2476 | 76 | 07 1118 | ANALYSIS REQUEST | |
|---|---|--|---|--------------------|---|
| Company Name: | Conoco Phillips | | - | | |
| Project Manager: | The Tyles w/ | Tetro Tech | P.O. #: | | |
| Address: | | | | | |
| City: | State: | Zip: | Attn: Brent Swimmer | | |
| Phone #: (432 | 1 6283-016 (| | Address: brent. w. swimmer | imer | |
| | M 0-02371 | | City: @ conocophillips .con | 2004 | |
| Project #: L | Com School Brown | 7 | ň | | |
| Project Name: | Canaco Phillips DEMILL TERMINAN | | = | | |
| Project Location: | : SEMU Permian 15 | | Phone #: | | |
| Campler Name: | Martha M | | 1 | | |
| Sampler Name. | MANAGER LASSING | MATRIX | PRESERV. SAMPLING | | _ |
| FOR LAB USE ONLY | | R | | | |
| Lab I.D. | Sample I.D. | CONTAINERS ROUNDWATE VASTEWATER OIL LUDGE | OTHER: CID/BASE: CE / COOL OTHER: | BTE) TPH Chloric | |
| HALLOHAM | KH-1 (0-0.5) | · - # | < >< | < X X X | |
| 2 | (0) | | 21 | XXX | - |
| : (3) | 6 | P 0 | × 2/24/21 | | |
| 74 | 101 | | X 1/24/21 | | |
| 30 | AT - (2-1-) | | x 2/24/21 | × × × × × × | |
| 26 | 50 | G - X | 1/12/2 X | + | |
| 2 | (8-1) | ~ ~ | × 2/24/21 | | |
| 00 | 30 | × | X 2/24/21 | - | |
| 5-4 | 120 | × | X 2 2/2/21 | the client for the | - |
| PLEASE NOTE: Liability analyses. All claims include | rdinal's liability and client's igence and any other caus | exclusive remety for any claim arising whether bases in conserve or received by Cardinal within 30 days after completion of the as a whatsoever shall be deemed welved unless made in writing and received by Cardinal within 30 days after completion of the as a whatsoever shall be deemed welved unless made in writing and received by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the as a whatsoever shall be deemed by Cardinal within 30 days after completion of the 30 days after completio | d received by Cardinal within 30 days after coloss of use, or loss of profits incurred by clien | plicable | |
| service. In no event shall of affiliates or successors aris | Cardinal De liable for incommance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of or related to the performance of services hereunder by Casing out of the performance of services hereunder by Casing out of the performance of services hereunder by Casing out of the performance of services here are the performance of services and the performance of the performance of services and the performance of the performance of services and the performance of the performance | r by Cardinal, regardless of whether such claim is based Received By: | is based upon any of the above stated reason | Phone Result: | |
| Relinquished By: | Times 10 | 1 | Molaky | Brent Swimm | 2 |
| | Time: | | | | |
| Delivered B | Delivered By: (Circle One) | Sample Condition Cool Infact | D CHE | | |
| Sampler - UPS | Sampler - UPS - Bus - Other: | #12 III 18 III | 40. | | |

† Cardinal cannot accent verhal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| 575) 393-2326 | BILL TO | ANALYSIS REQUEST |
|---|--|---|
| COMOLO PMI | P.O. #: | |
| mm30 705 [A[6] 60] | Company: LONGLO Phillips | |
| Address: State: | Zip: Attn: Browt Swimmer | |
| 1432) 110-6952 F | Address: Brent. W. Swimmer | |
| 111-10-04-1119 | city: @ Levo to phillips . Low | |
| 12 55 | un is state: | |
| TEMI) Dermian 1 | Phone #: | |
| in Court of the court of | Fax #: | |
| Sampler Name: MATHUW LASTICION | - | |
| | MAIRIX | es |
| Lab I.D. Sample I.D. | (G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE | F BTEX TPH Chlorida Hold |
| | | * |
| 13 AH-8 (5'-6') | - | |
| | | |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for analyses. All claims including those for negligence and any other cause whatsoever shall to service. In no event shall Cardinal be liable for incidental or consequental damages, includ service. In no event shall Cardinal be liable for incidental or consequents. | ing whether based in contract or tort, shall be limited to the amount pald and unless made in writing and received by Cardinal within 30 days after station, business interruptions, loss of use, or loss of profits incurred by di station, business interruptions in the seed upon any of the above stated reas galless of whether such claim is based upon any of the above stated reas | pplicable |
| Relinquished By: Time: Time: | Received, By: Phone Result: Fax Result: REMARKS: | Result: Yes No Add'I Fax #: Sult: Yes No Add'I Fax #: KKS: KMAN TO Brent SWIMMEN AND |
| Relinquished By: | | Jac, tyleral tetration.com |
| Sampler - UPS - Bus - Other: 23.3 #1/3 | Sample Condition CHECKED 51: Cool Intact (Initials) Cool Intact (Initials) No No | |



April 05, 2021

JOE TYLER

Conoco Phillips - Hobbs

P. O. BOX 325

Hobbs, NM 88240

RE: SEMU PERMIAN 15

Enclosed are the results of analyses for samples received by the laboratory on 03/30/21 15:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

A ... - L ... - - - I D. .. MC

Project Location: LEA CO NM

Sample ID: FLOOR - 1 (4') (H210786-01)

| BTEX 8021B | mg, | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 100 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 210 | 105 | 200 | 7.20 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 206 | 103 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.6 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 89.0 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 2 (4') (H210786-02)

| BTEX 8021B | mg/ | 'kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 210 | 105 | 200 | 7.20 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 206 | 103 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 78.2 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 82.7 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: LEA CO NM

Sample ID: FLOOR - 3 (4') (H210786-03)

ma/ka

RTFY 8021R

| BIEX 8021B | mg | / kg | Anaiyze | а ву: м5 | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1890 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 210 | 105 | 200 | 7.20 | |
| DRO >C10-C28* | 17.0 | 10.0 | 03/31/2021 | ND | 206 | 103 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 81.0 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.8 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021

Reported: 04/05/2021 Sampling Type: Soil Project Name: SEMU PERMIAN 15 Sampling Condition: **(

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)

Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 4 (4') (H210786-04)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 528 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 210 | 105 | 200 | 7.20 | |
| DRO >C10-C28* | 141 | 10.0 | 03/31/2021 | ND | 206 | 103 | 200 | 1.74 | |
| EXT DRO >C28-C36 | 16.2 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 85.1 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.3 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: FLOOR - 5 (4') (H210786-05)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1790 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 210 | 105 | 200 | 7.20 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 206 | 103 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 80.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.2 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: LEA CO NM

Sample ID: FLOOR - 6 (2') (H210786-06)

mg/kg

BTEX 8021B

| | <u> </u> | | | • • | | | | | |
|--------------------------------------|----------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 272 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 210 | 105 | 200 | 7.20 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 206 | 103 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.5 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 7 (2') (H210786-07)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 624 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 210 | 105 | 200 | 7.20 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 206 | 103 | 200 | 1.74 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 86.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.1 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 8 (1')(H210786-08)

| BTEX 8021B | mg/ | 'kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <100 | 100 | 03/31/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | 9400 | 100 | 03/31/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | 3590 | 100 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 86.6 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 862 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: MC

Project Location: LEA CO NM

Sample ID: FLOOR - 9 (1') (H210786-10)

ma/ka

RTFY 8021R

| BIEX 8021B | mg | /кд | Anaiyze | а ву: м5 | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 960 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 84.9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 93.4 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 10 (1') (H210786-11)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 80.0 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.6 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 11 (1') (H210786-12)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 896 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 3.92 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | 71.5 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | 17.8 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.9 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 12 (1') (H210786-13)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 288 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | 30.5 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.7 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 91.6 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: FLOOR - 13 (1') (H210786-14)

| BTEX 8021B | mg/ | kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 208 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.4 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 90.2 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: EAST SW - 1 (H210786-15)

| BTEX 8021B | mg/ | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | 21.2 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 81.4 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 88.4 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 2 (H210786-16)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 368 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 84.5 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 90.8 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 3 (H210786-17)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.7 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.6 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 4 (H210786-18)

| BTEX 8021B | mg | /kg | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 100 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 81.0 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.6 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 5 (H210786-19)

| Benzene* <0.050 | 107 105 101 99.0 | 2.00 2.00 2.00 2.00 6.00 | 2.60 3.24 3.35 3.27 | Qualifier |
|---|---------------------------|--------------------------------------|------------------------------|-----------|
| Toluene* <0.050 0.050 03/31/2021 ND 2.09 Ethylbenzene* <0.050 0.050 03/31/2021 ND 2.02 Total Xylenes* <0.150 0.150 03/31/2021 ND 5.94 | 105 101 | 2.00 2.00 | 3.24 3.35 | |
| Ethylbenzene* <0.050 0.050 03/31/2021 ND 2.02 Total Xylenes* <0.150 0.150 03/31/2021 ND 5.94 | 101 | 2.00 | 3.35 | |
| Total Xylenes* <0.150 0.150 03/31/2021 ND 5.94 | | | | |
| | 99.0 | 6.00 | 3.27 | |
| Total BTEX <0.300 0.300 03/31/2021 ND | | | | |
| | | | | |
| Surrogate: 4-Bromofluorobenzene (PID 101 % 73.3-129 | | | | |
| Chloride, SM4500Cl-B mg/kg Analyzed By: GM | | | | |
| Analyte Result Reporting Limit Analyzed Method Blank BS % | Recovery | True Value QC | RPD | Qualifier |
| Chloride <16.0 16.0 03/31/2021 ND 432 | 108 | 400 | 0.00 | |
| TPH 8015M mg/kg Analyzed By: MS | | | | |
| Analyte Result Reporting Limit Analyzed Method Blank BS % | Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* <10.0 10.0 04/01/2021 ND 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* <10.0 10.0 04/01/2021 ND 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 <10.0 10.0 04/01/2021 ND | | | | |
| Surrogate: 1-Chlorooctane 80.4 % 44.3-144 | | | | |
| Surrogate: 1-Chlorooctadecane 86.3 % 42.2-156 | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 6 (H210786-20)

| BTEX 8021B | mg/kg | | Analyze | d By: MS | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.13 | 107 | 2.00 | 2.60 | |
| Toluene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.09 | 105 | 2.00 | 3.24 | |
| Ethylbenzene* | <0.050 | 0.050 | 03/31/2021 | ND | 2.02 | 101 | 2.00 | 3.35 | |
| Total Xylenes* | <0.150 | 0.150 | 03/31/2021 | ND | 5.94 | 99.0 | 6.00 | 3.27 | |
| Total BTEX | <0.300 | 0.300 | 03/31/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 101 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | Analyzed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.8 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 7 (H210786-21)

| BTEX 8021B | mg/kg | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 176 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.1 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.9 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 8 (H210786-22)

| BTEX 8021B | mg/kg | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 80.0 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.6 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: EAST SW - 9 (H210786-23)

| BTEX 8021B | mg/kg | | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 111 % | 6 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 77.6 9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.0 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: LEA CO NM

Sample ID: WEST SW - 1 (H210786-24)

BTEX 8021B

| DILX GOZID | mg/ kg | | Alldiyzo | Allulyzed by: 511 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/kg | | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 80.1 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 85.4 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: WEST SW - 2 (H210786-25)

| BTEX 8021B | mg/kg | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 32.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/05/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | 45.8 | 10.0 | 04/05/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | 62.4 | 10.0 | 04/05/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 96.5 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 92.8 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: WEST SW - 3 (H210786-26)

| BTEX 8021B | mg/kg | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 352 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 81.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 87.2 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Celey D. Keene, Lab Director/Quality Manager

*=Accredited Analyte



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: LEA CO NM

Sample ID: WEST SW - 4 (H210786-27)

BTEX 8021B

| DILX GOZID | mg/ kg | | Alldiyzo | Analyzed by: 511 | | | | | |
|--------------------------------------|--------|-----------------|-----------------|------------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 64.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 79.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 84.8 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits inclured by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



03/30/2021

Analytical Results For:

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

Received: 03/30/2021 Sampling Date:

Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: WEST SW - 5 (H210786-28)

| BTEX 8021B | mg/kg | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/01/2021 | ND | 213 | 106 | 200 | 1.35 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/01/2021 | ND | 219 | 110 | 200 | 1.47 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 81.9 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 87.9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: LEA CO NM

Sample ID: WEST SW - 6 (H210786-29)

BTEX 8021B

| | 9/ | 9 | 7111411720 | , | | | | | |
|--------------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 48.0 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyzed By: MS | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 87.8 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.1 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: WEST SW - 7 (H210786-30)

| BTEX 8021B | mg/kg | | Analyze | Analyzed By: JH | | | | | |
|--------------------------------------|--------|-----------------|-----------------|-----------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyzed By: GM | | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 496 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.6 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 81.1 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Project Number: 212C - MD - 02377 Tamara Oldaker

Project Location: LEA CO NM

Sample ID: WEST SW - 8 (H210786-31)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 % | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 128 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 88.4 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 86.9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: LEA CO NM

Sample ID: WEST SW - 9 (H210786-32)

BTEX 8021B

| | 9/ | 9 | 7 | 7: 5:: | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 160 | 16.0 | 03/31/2021 | ND | 432 | 108 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 85.6 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 82.2 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: LEA CO NM

Sample ID: NORTH SW - 1 (H210786-33)

BTEX 8021B

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 240 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | 'kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 82.6 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 78.4 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: NORTH SW - 2 (H210786-34)

| BTEX 8021B | mg/ | 'kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg/ | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 432 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | /kg | Analyze | d By: MS | | | | | S-06 |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <100 | 100 | 04/01/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | 1660 | 100 | 04/01/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | 943 | 100 | 04/01/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 92.6 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 205 9 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

Received: 03/30/2021 Sampling Date: 03/30/2021 Reported: 04/05/2021 Sampling Type: Soil

Project Name: **SEMU PERMIAN 15** Sampling Condition: ** (See Notes) Sample Received By: Tamara Oldaker Project Number: 212C - MD - 02377

Project Location: LEA CO NM

Sample ID: NORTH SW - 3 (H210786-35)

| BTEX 8021B | mg/ | kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 9 | 73.3-12 | 9 | | | | | | |
| Chloride, SM4500Cl-B | mg/ | kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 144 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg/ | kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 85.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 83.6 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Analyzed By: JH

Project Location: LEA CO NM

mg/kg

Sample ID: SOUTH SW - 1 (H210786-36)

BTEX 8021B

| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 108 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1040 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 78.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 77.5 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kune



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SOUTH SW - 2 (H210786-37)

| BTEX 8021B | mg | /kg | Analyze | ed By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 109 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 80.0 | % 44.3-14 | 14 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 79.2 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



Analytical Results For:

Conoco Phillips - Hobbs JOE TYLER P. O. BOX 325 Hobbs NM, 88240

Fax To: (575) 297-1477

 Received:
 03/30/2021
 Sampling Date:
 03/30/2021

 Reported:
 04/05/2021
 Sampling Type:
 Soil

Project Name: SEMU PERMIAN 15 Sampling Condition: ** (See Notes)
Project Number: 212C - MD - 02377 Sample Received By: Tamara Oldaker

Project Location: LEA CO NM

Sample ID: SOUTH SW - 3 (H210786-38)

| BTEX 8021B | mg, | /kg | Analyze | d By: JH | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.00 | 99.9 | 2.00 | 5.94 | |
| Toluene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.11 | 105 | 2.00 | 5.07 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/01/2021 | ND | 2.08 | 104 | 2.00 | 4.78 | |
| Total Xylenes* | <0.150 | 0.150 | 04/01/2021 | ND | 6.32 | 105 | 6.00 | 5.05 | |
| Total BTEX | <0.300 | 0.300 | 04/01/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 110 9 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | d By: GM | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 112 | 16.0 | 03/31/2021 | ND | 416 | 104 | 400 | 0.00 | |
| TPH 8015M | mg, | /kg | Analyze | d By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 03/31/2021 | ND | 211 | 106 | 200 | 0.259 | |
| DRO >C10-C28* | <10.0 | 10.0 | 03/31/2021 | ND | 226 | 113 | 200 | 1.73 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 03/31/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 83.1 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 81.7 | % 42.2-15 | 6 | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Sampler - UPS - Bus - Other:

28.2€

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 01 of 04

| 101 East Marland, Hobbs, NM 88240 | NM 88240 | | | | |
|--|---|--|--|---------------------|---------------|
| (575) 393-2326 FAX (575) 393-2476 | 393-2476 | RILL TO | | ANALYSIS REQUEST | |
| Company Name: ConocoPhillips | | | | | _ |
| Project Manager: Joe Tyler with Tetra Tech | | P.O. #. | | | |
| Address: joe.tyler@tetratech.com | | pany: conoci | | | |
| City: State: | e: Zip: | Tent | | | |
| Phone #: (432) 210-6952 Fax #: NA | : NA | Address: Dent W. Swimmer | Mec | | |
| 7 | Project Owner: | 2 Conece phillips. | (0)00 | | |
| 11 Permion S | Release | State: ZIP: | | | |
| IN | | Phone #: | | | _ |
| - | | ٦ | | | |
| Sampler Name: Application | MATRIX | PRESERV. SAMPLING | | | |
| Lab I.D. Sample I.D. | E)RAB OR (C)OMP. CONTAINERS ROUNDWATER VASTEWATER OIL | LUDGE OTHER: CID/BASE: CE / COOL OTHER: | TPH BTEX Chlorides | Hold | |
| - | - \(\times \) | × | - × - × | | |
| Flow - A | | | | | |
| 3 Floor - 4 | | | | | |
| .5 | | | | | |
| C Floor - 6 | | | | | |
| & Floor & | | | | No Sample | 4 - Duplicate |
| floor . | ** | | - | | |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and dient's exclusive termedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the PLEASE NOTE: Liability and parages. Cardinal's liability and dient's exclusive termedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the PLEASE NOTE: Liability and client's exclusive termedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the please of the property of the pro | If you have the company to any daim arising whether based in contract or tort, shall be limited to the amount paid by the client for the year of the contract or tort, shall be limited to the amount paid by the client for the year of the contract or tort, shall be limited to the amount paid by the client for the year of the contract | contract or tort, shall be limited to the amount paid by titing and received by Cardinal within 30 days after or indions loss of use, or loss of profits incurred by clier | y the client for the ompletion of the applicable nt, its subsidiaries, | 4 | |
| service. In no event shall Cardinal be liable for incidental or consequential damages, involving viring the service in no event shall Cardinal be liable for incidental or consequential damages, involving viring the service in the performance of services between the control of the performance of th | ental damages, including remarks of whether suc services hereunder by Cardinal, regardless of whether suc | h claim is based upon any of the above stated reason | Yes | □ No Add'I Phone #: | |
| | Date: Neceived 3/20/21 | | | | |
| E Company | 1555 MM | IN SURVEY | The Toler and Bren | + Swimmer | |
| y: | | (| | | |
| T | Time: | | | | |
| Delivered By: (Circle One) | Sample C Cool In | Sample Condition CHECKED BT. Cool Intact (Initials) | n. att. | not his ton | Lille |



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

| Company Name: ConocoPhillips | | BILLTO | | | | |
|---|--|---|---|---------------------|---------|---|
| Project Manager: Joe Tyler with Tetra Tech | | P.O. #: | | ANALTOIS | KEQUES! | 1 |
| Address: joe.tyler@tetratech.com | | Company: ConocoPhillips | DS | | | |
| City: State: | Zip: | Attn: N | 11 | | | _ |
| Phone #: (432) 210-6952 Fax #: NA | | Address: 1 | 11 | | | |
| Project #: 212C-MD-02377 Project Owner: | | City: | | | | |
| Project Name: COP STAND Pennsen | 15 Referse | State: Zip: | | | | |
| Project Location: SEMU Permis | 15 | #: | | | | |
| Sampler Name: | | Fax #: | | | | |
| FOR LAB USE ONLY | MATRIX | PRESERV. SAMPLING | ត | | | |
| 2 | IERS /ATER | | | | | |
| 6 | (G)RAB O # CONTAI GROUND WASTEW SOIL OIL SLUDGE | OTHER: ACID/BASI CE/COO OTHER: DATE | TPH BTEX Chloride | Hold | | |
| T-PERSONAL PROPERTY. | | × | × | | | |
| 13 Floor - 12(1') | | | -> | | | |
| Floor | | | | | | |
| | | | | | | |
| 16 East sw-2 | | | | | | |
| | | | | | | |
| 18 East Sw -4 | | | | | | |
| | | | | | | |
| PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive ren | Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract of tort, shall be limited to the amount road by the client to the | tort, shall be limited to the amount paid h | v the client for the | | | |
| | r shall be deemed waived unless made in writing and re, including without limitation, business interruptions, lose, including without limitation, business interruptions, lose inder by Cardinal, regardless of whether such claim is be | unless made in writing and received by Cardinal within 30 days after or no business interruptions, loss of use, or loss of profits incurred by clier is so of whether such dalm is based upon any of the above stated received. | ompletion of the applicable nt, its subsidiaries, | | | |
| Normidus led By: | Receive | _ | ts: Yes | □ No Add'I Phone #: | | |
| 7 | 2 | Marken | Fax Results: Yes Email Results to: | | | |
| Date: | Received By: | (6,4) | See page of of | OW | | |
| Delivered By: (Circle One) | Sample Condition | H2 | | | | |
| Sampler - UPS - Bus - Other: 38,30 | Cool Intact Yes Tyes No | (Initials) | | | | |
| † Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326 | lease fax written changes to (57 | 75) 393-2326 | | | | |
| | (| , | | | | |

PageOJ of O4

Page 41 of 43

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| : = | 101 East Marland, Hobbs, NM 88240 | 0 | | | | | | | | | | | | | Pa | Page O | 3 of C | 04 | |
|---|--|--------------------------------|---|-----------------------------|-----------------------------|-------------------------------|--|---|-------|-----------|-------|----------|-----------------------------|---------|----------|---------|--------|----|---|
| (5/5) 393-2328 Company Name: ConocoPhillips | (5/5) 393-2326 FAX (5/5) 393-24/6 | | | | B | BILL T | 70 | | | | D | ANALYSIS | | REQUEST | JEST | $\ \ $ | | | Ш |
| roject Manager: | Project Manager: Joe Tyler with Tetra Tech | | | P.O. #: | # | | | Н | | | | | | | _ | | | | |
| Address: joe.tyler@tetratech.com | @tetratech.com | | | Com | pany: | Company: ConocoPhillips | Phillips | _ | | | | | | | | | | | |
| city: | State: | Zip: | | Attn: | | | | | | | | | | | | | | | |
| Phone #: (432) 210-6952 | 0-6952 Fax #: NA | | | Address: | ess: | | | | | | | | | | | | | | |
| Project #: 212C-MD-02377 | ID-02377 Project Owner: | | | City: | | | | | | | | _ | | | _ | | | | |
| Project Name: | 0W35 - | 5 | Release | State: | | Zip: | | | | | | | | | _ | | | | _ |
| Project Location: | | | | Phone #: | 1e #: | | | | | | | | | | _ | | | | _ |
| Sampler Name: | Adnish | | | Fax #: | ;#F | | | | | | | | | | | | | | _ |
| FOR LAB USE ONLY | | \dashv | MATRIX | P | PRESERV. | | SAMPLING | | | | | | | | | | | | |
| Lab I.D. | Sample I.D. | G)RAB OR (C)OMP. CONTAINERS | GROUNDWATER WASTEWATER SOIL DIL SLUDGE | OTHER: | ACID/BASE: CE / COOL | OTHER: | DATE TIME | TPH | BTEX | Chlorides | | Hold | | | | | | | |
| 10000 | East SW-7 | | X | | × | 3/30 | 30 | × | 4 | X | | | | | | + | + | + | |
| B | East SW -8 | | - | | - | | | - | _ | + | | | | | + | + | | + | |
| | East SW-9 | | | | | | | + | _ | _ | | | | _ | + | | | + | |
| - | west 5w-1 | | | | | | | | | | | | | | ++ | + | | | |
| 2 | - | | | | | | | - | _ | Ŧ | | | \perp | + | + | + | + | + | |
| | west sw-4 | | | | | | | | | | | | | _ | + | - | | + | |
| 200 | West SWY6 | | | | | | | | | | | | - " | 1 | | | | ++ | |
| 30 | Uest SW - 7 | v claim a | rising whether based in contri | act or tort. | shall be lim | ited to the an | nount paid by the cl | lent for the | - | - | | | | - | \vdash | - | - | - | L |
| PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca | cause w | eemed wa | usere terrory or any control to the state of which gand received by Cardinal within 30 day hatsoever shall be deemed water unless made in writing and received by Cardinal within 30 day hatsoever shall be deemed water unless made in writing and received by Cardinal within 30 day hatsoever shall be deemed water unless that the state of the | and receive s, loss of u | ed by Cardi ise, or loss | nal within 30 of profits incu | days after completi irred by client, its s stated reasons or o | on of the appli ubsidiaries, therwise. | cable | | | - | | | | | | | |
| Relinquished By | Da Tir | Rece | Received By: | 1 | | 2 | , 0 | Phone Results: Fax Results: Email Results to: | ala | Yes | No No | Add'l F | Add'l Phone #: Add'l Fax #: | | | | | | |
| Relinquished By: | Date: | Ree | Received By: | 2 | 5 | | | B | Rag | So | 0 | 85 | 204 | | | | | | |
| Delivered By: | | | Sample Condition Cool Intact | lition | CHE | CHECKED BY: (Initials) | :: | | | | | | | | | | | | |
| Sampler - UPS | Sampler - UPS - Bus - Other: 28.2c 1 | #//2 | | es | 4 | 9 | | | | | | | | | | | | | |

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company Name: Controlophilips ANALYSIS REQUEST Polycet Manager: Joe Pyer with Tetar Tech Blade: Zip: Address: Ohy: Fax #: N. A Address: 2Dp: Polycet Address: Polycet Anne: N. A Polycet Comman Salate: Zip: Address: Polycet Name: N. A Address: Semipler Name: N. A Ad | G 1 | 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 | 6 | | | | | | | | | | | | | | | | | | | | | | П | ag | Page OH of OH | E | of (| 5 | | | |
|--|--|--|-----------------------------|-----------------|---------|---------|-----------------|--------|--------|--|-----------------|----------------|------------|--|--|------------------|------|-----------|----|-------|--------|--------|---|----|----------|----|---------------|---|--------|---|---|---|---|
| State: Zip: Address: State: Zip: Address: Zip: Address: state: 212C-MD-02377 Project Owner: State: Zip: Address: state: 212C-MD-02377 Project Owner: State: Zip: State: Zip: Address: state: 212C-MD-02377 Project Owner: State: Zip: State: Zip: Address: state: 212C-MD-02377 Project Owner: State: Zip: State: Zip: Address: | Company Name: | ConocoPhillips | | | | | | | | | | B | Ĕ | | | | | | | NA | .YS | | 页 | Ξĺ | S | | | | | | П | | |
| State: Zip: Attn: | Project Manager: | Joe Tyler with Tetra Tech | | | | | | | ס | 0 | # | | | | | _ | | | | | | \neg | _ | | \neg | | | | | | | | |
| State: Zip: Address: City: State: Zip: Address: City: State: Zip: | Address: joe.tyle | r@tetratech.com | | | | | | | 0 | om | par | ì. | 00 | nocoPhillip | S | | | | | | | | | | | | | | | | | | |
| Set (423) 210-6952 Fax #: NA Address: Address: City: State: Zip: | City: | | Zip: | | | | | | Þ | Ħ | | 8 | | - | | | | | | | | | | | | | | | | | | | |
| Sample I.D. Sample I.D. OR INTERVENT PRESERV SAMPLING PAX #: FAX # | Phone #: (432) 21 | | | | | | | | Þ | dd | res | 9 | | | | | | | | | | | | | | | | | | | | | |
| Sample I.D. MATRIX PRESERV SAMPLING Hax #: | Project #: 212C-M | | | | | | | | 0 | ij | | | | | | | | | | | | | | | _ | | | | | | | | |
| Fax #: Fax #: | Project Name: | U Permion 15 rel | 230 | 6 | | | | | co | tate | 9 | | N | Ζip: | | | | | | | | | | | | | | | | | | | |
| Sample I.D. Sample I.D. Sample I.D. Sample I.D. Sample I.D. Received By: Will Circle One) Sample Condition Time: MATRIX PRESERV SAMPLING HE THE THE THE THE THE THE THE | Project Location: | | | | | | | | 70 | hol | ne # | ** | | | | | | | | | | | | | | | | | | | | | |
| Sample I.D. Sample I.D. ONE CONSTRUCTION ONE | Sampler Name: | Hanan | | | | | | | - | ax | # | | | | | | | | | | | | | | | | | | | | | | |
| Sample I.D. Compared to the production of the appointment to the production of the appointment of the received By: | FOR LAB USE ONLY | | | \perp | | 3 | ATF | Ĩ | | P | RE | SER | < | SAMPLIN | G | | | | | | | | | | | | | | | | | | |
| JUST SU - 8 JOHN SU - 1 JOHN SU - 2 SOUTH SU - 2 SOUTH SU - 2 SOUTH SU - 3 JOHN SU - 3 JO | Lab I.D. | Sample I.D. | | | | | | | | CONTRACTOR OF THE PARTY OF THE | | | OTHER: | DATE | | TPH | BTEX | Chlorides | | Hold | | | | | | | | | | | | | |
| Jury H. S.J I Borth. S.J I Borth. S.J I South. S.J I South | - | Jest Sw - 8 | _ | | | - | | | | _ | - | | _ | 3/30 | | X | + | > | | | | \neg | | | \vdash | | \Box | | | | | l | |
| North 5w -1 North 5w -1 North 5w -1 South | - | west su -9 | _ | _ | | | _ | | - | _ | - | | _ | | | | _ | _ | | | | | | | | | | | | | | | |
| South Su-3 South Su-1 South Su-2 South Su-2 South Su-2 South Su-2 South Su-3 South | - | - CAS - | | | | - | | - | + | + | - | - | + | | | | | | | | | + | - | | + | | | | | | | | |
| South 3u-7 South 5u-7 South | 1 | th 61- | | _ | \perp | + | | + | + | + | + | + | _ | | _ | | | | | | | \top | _ | | + | | + | | \top | | | | |
| South 33.2 South 33.2 Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the those for negligence and any other cause whatsoever shall be deemed valued unless made in writing and received by Cardinal within 30 days after competition of the applicable final be liable for incidental or consequential damages, including whether lavel unless made in writing and received by Cardinal within 30 days after competition of the applicable to deemed valued limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Phone Results: Yes No Fax Results to: Fax Results to: Yes No No No No No No No N | | 2 | | | _ | \perp | | + | + | + | + | + | + | _ | | | | | | | | + | _ | | + | | + | | | | | | |
| Damages. Cardinal's liability and client's exclusive remedy for any daim arising whether based in contract or tort, shall be limited to the amount paid by the client for the those for negligence and any other cause whatsoewer shall be deemed valued unless made in writing and received by Cardinal within 30 days after completion of the applicable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise. Part Prioring Results: Yes No | 7 | | | | | _ | | - | - | _ | _ | _ | _ | | | | | | | | | | | | | | | | | | | | |
| Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the those for negligence and any other cause whatsoever shall be deemed varived unless made in writing and received by Cardinal within 30 days after completion of the applicable final be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. There is not otherwise in the control of the above stated reasons or otherwise. In the control of | N | (| - | | | | | _ | | _ | | | _ | _ | 1 | | | 1 | | | | | | | _ | | | | | | | | |
| Damages. Cardinal's labelly and client's exclusive remedy for any dain arising whether based in contract or rot, shall be limited to the amount paid by the client for the those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable final be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Particle One Date: Received By: Received By: Prone Results: Yes No Fax Results to: Yes No Phone Results to: Yes No Phone Results Yes No Yes Yes No Yes Yes No Yes Yes Yes Yes No Yes Yes Yes Yes No Yes | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | |
| Circle One) Collection Checked By: Cool Intact Checked By: C | PLEASE NOTE: Liability and analyses. All claims including service. In no event shall Can | Damages. Cardinal's liability and client's exclusive remedy for a those for negligence and any other cause whatsoever shall be dinal be liable for incidental or consequental damages, including | y claim eemed without | arisin waive | g whe | her ba | sed in we inter | riting | and re | tort, seceive | shall to d by o | Cardir loss | ted to | the amount paid thin 30 days after clifts incurred by clie | y the client for the ompletion of the a nt, its subsidiaries | applicable s. | | | | | | | | | | | | | | | | | |
| Time: Date: Received By: Received By: Cool Intact (Initials) Bus - Other: Sample Condition CHECKED BY: Cool Intact (Initials) Sample Condition (Initials) | Relinquished By: | | Rec | eiv | e. | Ÿ | Ш | - 11 | - 11 | | | | | | hone Resu | ts: | Yes | ш | No | Add | Phone | #. | | | | | | | | | | | ₩ |
| Sample Condition Cool Intact Cool Intact Yes Tres No No No | Relinquished By: | Done | Re | <u>₹</u> . | ed | Y. S. | | 2 | To | The state of the s | | | *** | | ax Results: mail Result | ts to: | Pag | 6 | 9 | Add'l | Pax #: | | | | | | | | | | | | |
| 28.20 #13 12 No 1 No 4 | Delivered By: | | | | O (0 | amp | Je C | onc | T itio | 12 | 0 | <u> </u> | eti. KE | ED BY: als) | | | | | | | | | | | | | | | | | | | |
| | Sampler - UPS - | | # | Ci | | | N S | | No | _ | 1 | , 7 | 0 | | | | | | | | | | 1 | | | | | 1 | | | 1 | 1 | |



April 14, 2021

JOE TYLER
TETRA TECH

901 WEST WALL STREET , STE 100

MIDLAND, TX 79701

RE: COP - SEMU PERMIAN 15 WELLHEAD RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 04/13/21 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-20-13. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

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

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

Celey D. Keine

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

TETRA TECH JOE TYLER

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/13/2021 Sampling Date: 04/13/2021

Reported: 04/14/2021 Sampling Type: Soil

Project Name: COP - SEMU PERMIAN 15 WELLHEAD RE Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02483 Sample Received By: Tamara Oldaker

Analyzed By: MS

Project Location: NONE GIVEN

mg/kg

Sample ID: FL - 7 (4') (H210930-01)

BTEX 8021B

| BIEX GOEIB | 9/ | 119 | Analyze | a 27.110 | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.31 | 116 | 2.00 | 1.59 | |
| Toluene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.48 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.76 | |
| Total Xylenes* | <0.150 | 0.150 | 04/13/2021 | ND | 6.47 | 108 | 6.00 | 1.95 | |
| Total BTEX | <0.300 | 0.300 | 04/13/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 1310 | 16.0 | 04/14/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg, | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/13/2021 | ND | 208 | 104 | 200 | 0.488 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/13/2021 | ND | 217 | 108 | 200 | 1.30 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/13/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 91.1 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.3 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH JOE TYLER

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/13/2021 Sampling Date: 04/13/2021

Reported: 04/14/2021 Sampling Type: Soil

Project Name: COP - SEMU PERMIAN 15 WELLHEAD RE Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02483 Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: FL - 8 (4') (H210930-02)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.31 | 116 | 2.00 | 1.59 | |
| Toluene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.48 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.76 | |
| Total Xylenes* | <0.150 | 0.150 | 04/13/2021 | ND | 6.47 | 108 | 6.00 | 1.95 | |
| Total BTEX | <0.300 | 0.300 | 04/13/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 752 | 16.0 | 04/14/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/13/2021 | ND | 208 | 104 | 200 | 0.488 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/13/2021 | ND | 217 | 108 | 200 | 1.30 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/13/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 93.3 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 101 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH JOE TYLER

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/13/2021 Sampling Date: 04/13/2021

Reported: 04/14/2021 Sampling Type: Soil

Project Name: COP - SEMU PERMIAN 15 WELLHEAD RE Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02483 Sample Received By: Tamara Oldaker

Project Location: NONE GIVEN

Sample ID: NSW - 2 (4') (H210930-03)

| BTEX 8021B | mg | /kg | Analyze | ed By: MS | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.31 | 116 | 2.00 | 1.59 | |
| Toluene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.48 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.76 | |
| Total Xylenes* | <0.150 | 0.150 | 04/13/2021 | ND | 6.47 | 108 | 6.00 | 1.95 | |
| Total BTEX | <0.300 | 0.300 | 04/13/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 102 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 576 | 16.0 | 04/14/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/14/2021 | ND | 208 | 104 | 200 | 0.488 | |
| DRO >C10-C28* | 209 | 10.0 | 04/14/2021 | ND | 217 | 108 | 200 | 1.30 | |
| EXT DRO >C28-C36 | 80.7 | 10.0 | 04/14/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 88.0 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.9 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Analytical Results For:

TETRA TECH JOE TYLER

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/13/2021 Sampling Date: 04/13/2021

Reported: 04/14/2021 Sampling Type: Soil

Project Name: COP - SEMU PERMIAN 15 WELLHEAD RE Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02483 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: NONE GIVEN

Sample ID: SSW - 1 (2') (H210930-04)

RTFY 8021R

| BIEX 8021B | mg | / kg | Anaiyze | а ву: м5 | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.31 | 116 | 2.00 | 1.59 | |
| Toluene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.48 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.76 | |
| Total Xylenes* | <0.150 | 0.150 | 04/13/2021 | ND | 6.47 | 108 | 6.00 | 1.95 | |
| Total BTEX | <0.300 | 0.300 | 04/13/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg, | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | 16.0 | 16.0 | 04/14/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/13/2021 | ND | 208 | 104 | 200 | 0.488 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/13/2021 | ND | 217 | 108 | 200 | 1.30 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/13/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 89.7 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 96.0 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Kreene



Analytical Results For:

TETRA TECH JOE TYLER

901 WEST WALL STREET, STE 100

MIDLAND TX, 79701

Fax To: (432) 682-3946

Received: 04/13/2021 Sampling Date: 04/13/2021

Reported: 04/14/2021 Sampling Type: Soil

Project Name: COP - SEMU PERMIAN 15 WELLHEAD RE Sampling Condition: Cool & Intact
Project Number: 212C - MD - 02483 Sample Received By: Tamara Oldaker

Applyzod By: MC

Project Location: NONE GIVEN

Sample ID: WSW - 2 (6') (H210930-05)

RTFY 8021R

| BIEX 8021B | mg | /кд | Anaiyze | а ву: м5 | | | | | |
|--------------------------------------|--------|-----------------|------------|--------------|------|------------|---------------|-------|-----------|
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Benzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.31 | 116 | 2.00 | 1.59 | |
| Toluene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.48 | |
| Ethylbenzene* | <0.050 | 0.050 | 04/13/2021 | ND | 2.18 | 109 | 2.00 | 1.76 | |
| Total Xylenes* | <0.150 | 0.150 | 04/13/2021 | ND | 6.47 | 108 | 6.00 | 1.95 | |
| Total BTEX | <0.300 | 0.300 | 04/13/2021 | ND | | | | | |
| Surrogate: 4-Bromofluorobenzene (PID | 103 | % 73.3-12 | 9 | | | | | | |
| Chloride, SM4500CI-B | mg | /kg | Analyze | ed By: AC | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| Chloride | <16.0 | 16.0 | 04/14/2021 | ND | 432 | 108 | 400 | 3.77 | |
| TPH 8015M | mg | /kg | Analyze | ed By: MS | | | | | |
| Analyte | Result | Reporting Limit | Analyzed | Method Blank | BS | % Recovery | True Value QC | RPD | Qualifier |
| GRO C6-C10* | <10.0 | 10.0 | 04/13/2021 | ND | 208 | 104 | 200 | 0.488 | |
| DRO >C10-C28* | <10.0 | 10.0 | 04/13/2021 | ND | 217 | 108 | 200 | 1.30 | |
| EXT DRO >C28-C36 | <10.0 | 10.0 | 04/13/2021 | ND | | | | | |
| Surrogate: 1-Chlorooctane | 91.1 | % 44.3-14 | 4 | | | | | | |
| Surrogate: 1-Chlorooctadecane | 97.7 | % 42.2-15 | 6 | | | | | | |
| | | | | | | | | | |

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

Relinquished By:

Time:

Phone Results:
Fax Results:
Email Results to:

□ Yes

Add'I Fax #: Add'I Phone #:

Alex ON O

and chotstan. Italia tetratech, com

Received By:

Time: Date:

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

CV.

Cool Intact
Yes Ayes
No No Sample Condition

CHECKED BY: (Initials)

† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

| Company Nam | Company Name: ConocoPhillins | 76 | | | rage / of / |
|--|--|--|---|--------------|-------------|
| Project Manage | Project Manager: Joe Tyler with Tetra Toch | BILL TO | 0 | ANALYSIS | REQUEST |
| Addrass: ing to | | P.O. #: | | - 1 | |
| 21. | Cit | Company: Consessings that | Minus Etro LA | | _ |
| City: | State: | Zip: Attn: | 1 | | |
| Phone #: (432) 210-6952 | 210-6952 Fax #: NA | Address: On the | | | |
| Project #: 212C | Project #: 212C-MD-02327 0 348 S Project Owner: | | Well St. | | |
| Project Name: | Ž. | Robert State To Time | CXCS TRIPOL | | |
| Project Location: | S | Dhone # | 17701 | | |
| Sampler Name: J | たんかり | Tax #: | | | |
| FOR LAB USE ONLY | | SERV | SAMDI NIC | | |
| | | S ER | | | |
| Lab I.D. | Sample I.D. | R: BASE: OOL | (| ides | |
| H210930 | (m) = 10 | # CON GROU WAST | TPH BTEX | Chlor | |
| 2- | ET-8 (A) | 4-51-h X | × | χ | |
| CU | (h) temso | | | | |
| 7 | 55W-1 (2') | | | | |
| C | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| EASE NOTE: Liability and lalvses. All claims including | Damages. Cardinal's liability and client's exclusive remedy for an | PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the | | | |
| vice. In no event shall Card liates or successors arising | in no event shall cardinal be liable for incidental or consequental damages, including the or successors arising out of or related to the performance of services hereunder by Cardinal be designed. | review. In no event shall Cardinal be failed for inclental or consequental damages, including without limitation, business made in writing and received. Cardinal which, 30 days after completion of the applicable inflitiates or successors arising out of or related to the performance of services hereunder by Cardinal which is consequently successors arising out of or related to the performance of services hereunder by Cardinal which is consequently successors arising out of or related to the performance of services hereunder by Cardinal which is consequently successors arising out of or related to the performance of services hereunder by Cardinal which is consequently successors. | aid by the client for the fler completion of the applicable r client, its subsidiaries, | | |
| Relinquished By: | Date: 4/13/24 | Received By: Phone Res | Phone Results: Yes | | |
| | | | 1 | Add Phone #: | |

Page 8 of 8

APPENDIX D Photographic Documentation



| TETRA TECH, INC. | DESCRIPTION | View of the release area on pad. | 1 |
|------------------------------|-------------|--|-----------|
| PROJECT NO. 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 1/20/2021 |



| TETRA TECH, INC. PROJECT NO. | DESCRIPTION | View of the release area on pad. | 2 |
|------------------------------|-------------|--|-----------|
| 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 1/20/2021 |



| TETRA TECH, INC. PROJECT NO. | DESCRIPTION | View of the release area as it travelled off pad and into pasture. | 3 |
|------------------------------|-------------|--|-----------|
| 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 1/20/2021 |



| TETRA TECH, INC. | DESCRIPTION | View of the release area as it travelled off pad and into pasture. | 4 |
|------------------------------|-------------|--|-----------|
| PROJECT NO. 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 1/20/2021 |



| TETRA TECH, INC. PROJECT NO. | DESCRIPTION | View of the excavation area on pad prior to sampling. | 5 |
|------------------------------|-------------|---|-----------|
| 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 4/13/2021 |



| TETRA TECH, INC. | DESCRIPTION | View of the excavation area in the pasture and pad prior to sampling. | 6 |
|------------------------------|-------------|---|-----------|
| PROJECT NO. 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 4/14/2021 |



| TETRA TECH, INC. PROJECT NO. | DESCRIPTION | View of the excavation area in the pasture prior to sampling. | 7 |
|------------------------------|-------------|---|-----------|
| 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 4/14/2021 |



| TETRA TECH, INC. | DESCRIPTION | View of the excavation area in the pasture prior to sampling. | 8 |
|------------------------------|-------------|---|-----------|
| PROJECT NO. 212C-MD-02483 | SITE NAME | ConocoPhillips SEMU Permian #15 Stuffing Box Release | 4/14/2021 |

APPENDIX E Waste Manifests



Permian Basin

CONOCOPHILLIPS

Customer #: CRI2190

Ordered by: BRENT SWIMMER

AFE #:

PO #:

Manifest #:

NA Manif. Date: 3/26/2021

Hauler:

MCNABB PARTNERS

Driver Truck #

JESUS M31

Card # Job Ref# Ticket #:

700-1201688

Bid #:

O6UJ9A000HH0

Page 100 of 137

Date: Generator:

3/26/2021

CONOCOPHILLIPS

Generator #:

Well Ser. #: 07810

Well Name:

SEMU PERMIAN

Well #:

Field: Field #:

Rig:

NON-DRILLING

County

LEA (NM)

015

Facility: CRI

Product / Service

| i ioudoti ocivi | CC | | OH CI Cond. %Solids TDS PCI/GM MR/HR H2S % Oil N | | | | | | | | |
|-----------------|-------|------|--|-------|---------|-----|----------|-------|-----|--------|-----------------------------------|
| | | | | | | | 16.00 ya | rds | | | New Control and Advantage Control |
| | | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight |
| Lab Analysis: 3 | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | 70 011 | vvcigitt |

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

| Driver/ Agent | Signature |
|---------------|-----------|
|---------------|-----------|

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

| Approved By: | |
|--------------|--|
| | |
| | |

Received by OCD: 4/19/2021 2:38:31 PM CUSTOMER: CONOCOPHILLIPS Ticket #: 700-1201730 Customer #: CRI2190 Bid #: O6UJ9A000HH0 Ordered by: BRENT SWIMMER Date: 3/26/2021 AFE #: Generator: CONOCOPHILLIPS PO #: Generator #: Manifest #: Well Ser. #: 07810 SOLUTIONS Manif. Date: 3/26/2021 Well Name: SEMU PERMIAN MCNABB PARTNERS Hauler: Well #: 015 Permian Basin Driver **JESUS** Field: Truck # M31 Field #: Card # Rig: Job Ref# County LEA (NM)

Page 101 of 137

NON-DRILLING

Facility: CRI

| Product / Serv | /ice | | | | | Q | uantity Uni | ts | | | |
|---|---|--|--|--|--|--|--|--|--|---|---|
| Contaminated | l Soil (R | CRA Exe | mpt) | | | 16.00 yards | | | | | |
| | Cell | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight |
| Generator Certify I hereby certify that 1988 regulatory det X RCRA Exempt RCRA Non-Execharacteristics estal amended. The follow | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | | |
| Generator Cer | rtificatio | n Statem | ent of Wa | ste Status | S | | WW. 82035 | | | | |
| 1988 regulatory X RCRA Exen RCRA Non- characteristics es amended. The fo | determin npt: Oil I Exempt: stablished ollowing mation | ation, the a Field waster Oil field w d in RCRA documenta RCRA | bove descr s generated vaste which regulation ation is atta | fibed waste from oil and is non-haza s, 40 CFR 2 ched to den | is: ad gas explora ardous that do 61.21-261.24 constrate the a | tion and pes not exc or listed habove-des | production op ceed the mining azardous was cribed waste | erations and num standard te as defined is non-hazard | are not mix to for waste in 40 CFR, out (Chec | ed with nor hazardous part 261, so k the appro | n-exempt wast by ubpart D, as priate items): |
| Driver/ Agent | Signatu | re | A PART OF THE PARTY OF THE PART | 2 | R360 F | Represei | ntative Sign | ature | 17 | | |
| Customer App | roval | | | | | (4) (3) (3) | NO STRUCTURE | V | | | |

THIS IS NOT AN INVOICE!

Date:

Approved By:

Received by OCD: 4/19/2021 2:38:31 PM tomer: SOLUTIONS

Permian Basin

CONOCOPHILLIPS

Customer #: CRI2190

Ordered by: JOE TYLER

AFE #: PO #:

Manifest #: NA Manif. Date: 3/29/2021

Hauler: Driver

MCNABB PARTNERS TONY

Truck # M₀2

Card# Job Ref# Ticket #:

700-1202209

Page 102 of 137

Bid #: Date:

O6UJ9A000HH0

3/29/2021 Generator:

CONOCOPHILLIPS

Generator #:

Well Ser. #: 07810

Well Name: SEMU PERMIAN

015

Well #: Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

| Product / Serv | /ice | | | | | Q | uantity Uni | ts | | | William Line |
|----------------|---------|---------|------|-------|---------|-----|-------------|-------|-----|-------|--------------|
| Contaminated | Soil (R | CRA Exe | mpt) | | | | 10.00 ya | rds | | | |
| | Cell | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight |
| Lab Analysis: | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | | |

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

| Driver/ | Agent | Signature | |
|---------|-------|--|--|
| | | THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NAMED IN C | |

R360 Representative Signature

Date:

Customer Approval

Approved By:

THIS IS NOT AN INVOICE!

| (1) | |
|-----|-----|
| A. | 11 |
| 13. | 1 4 |



Permian Basin

CONOCOPHILLIPS

Customer #: CRI2190 Ordered by: JOE TYLER

AFE #:

Hauler:

Driver

Manifest #: NA

MCNABB PARTNERS

JESUS M31

Truck # Card# Job Ref# Ticket #:

Date:

Page 103 of 137 700-1202130

Bid #:

O6UJ9A000HH0

3/29/2021

CONOCOPHILLIPS

Generator: Generator #:

07810 Well Ser. #:

Well Name:

SEMU PERMIAN

015 Well #:

Field:

Field #: Rig:

NON-DRILLING

LEA (NM) County

Facility: CRI

Product / Service

| | AMONG MICHAEL | HINNING STRUCK | THE RESIDENCE OF THE PARTY OF T | | TENTAL AND | | uantity Uni | เร | | | |
|---------------|---------------|----------------|--|-------|------------|-----|-------------|-------|-----|--------|---------|
| Contaminated | Soil (R | CRA Exe | mpt) | | | | 16.00 ya | rds | | | |
| | Cell | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight |
| Lab Analysis: | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | 70 011 | vvoigni |

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above)

| Driver/ | Agent | Signature | |
|---------|-------|-----------|--|
| | | | |

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

| pproved By: | | | |
|-------------|--|--|--|
| | | | |

Date:

Received by OCD: 4/19/2021 2:38:31 PM tomer: SOLUTIONS

Permian Basin

CONOCOPHILLIPS

Customer #: CRI2190 Ordered by: JOE TYLER

AFE #: PO #:

Manifest #: NA Manif. Date: 3/29/2021

Hauler:

MCNABB PARTNERS

Driver

JESUS M31

Truck # Card # Job Ref# Ticket #:

700-1202182

Bid #: Date:

O6UJ9A000HH0

Page 104 of 137

3/29/2021

Generator: CONOCOPHILLIPS

015

Generator #

Well Ser. #: 07810

Well Name: SEMU PERMIAN

Well #: Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

| Product / Serv | rice | HER WENT TO A | | | | Q | uantity Uni | ts | BETTER HIE | | The state of the state of |
|----------------|---------|---------------|------|-------|---------|-----|-------------|-------|------------|--------|---------------------------|
| Contaminated | Soil (R | CRA Exe | mpt) | | | | 16.00 ya | rds | | | |
| | Cell | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight |
| Lab Analysis: | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | 70 011 | vveignt |

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) MSDS Information

| Driver/ Ag | ent | Signature | |
|------------|-----|-----------|--|
|------------|-----|-----------|--|

R360 Representative Signature

Customer Approval

THIS IS NOT AN INVOICE!

| Approved By: | |
|--------------|---|
| | _ |

Received by OCD: 4/19/2021 2:38:31 PM tomer: Page 105 of 137 CONOCOPHILLIPS Ticket #: 700-1202225 Customer #: CRI2190 Bid #: O6UJ9A000HH0 Ordered by: JOE TYLER Date: 3/29/2021 AFE #: Generator: CONOCOPHILLIPS PO # Generator #: ENVIRONMENTAL Manifest #: NA Well Ser. #: 07810 SOLUTIONS Manif. Date: 3/29/2021 Well Name: SEMU PERMIAN Hauler: MCNABB PARTNERS Well #: 015 Permian Basin Driver **JESUS** Field: Truck # M31 Field #: Card# NON-DRILLING Rig: Job Ref# County LEA (NM) Facility: CRI Product / Service **Quantity Units** Contaminated Soil (RCRA Exempt) 16.00 yards Cell Hq Cond. %Solids TDS PCI/GM MR/HR H₂S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 **Generator Certification Statement of Waste Status** I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above) **Driver/ Agent Signature R360 Representative Signature**

Customer Approval

Approved By:

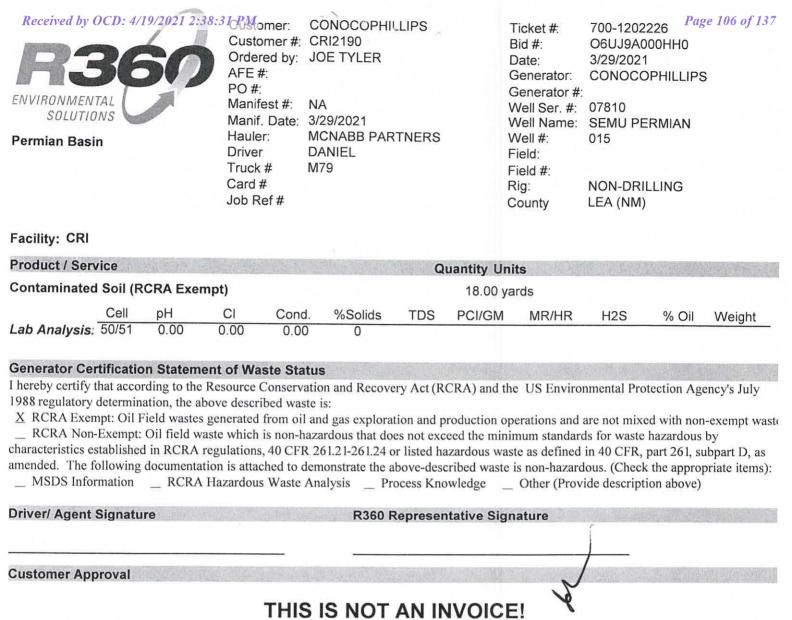
t6UJ9A01I3YY

THIS IS NOT AN INVOICE!

Date:



Released to Imaging: 6/10/2021 8:16:43 AM



Date:

WE! (-015

Approved By:



Permian Basin

CONOCOPHILLIPS

Customer # CRI2190 Ordered by: JOE TYLER

AFE #:

PO #:

Manifest #: NA Manif. Date: 3/30/2021

Hauler: Driver

MCNABB PARTNERS TONY M02

Card # Job Ref#

Truck #

Ticket #:

700-1202414

Bid #:

O6UJ9A000HH0

Page 107 of 137

Date: Generator: 3/30/2021

CONOCOPHILLIPS

Generator #:

Well Ser. #: 07810

Well Name: SEMU PERMIAN 015

Well #: Field:

Field #:

Rig:

NON-DRILLING

County LEA (NM)

Facility: CRI

| Product / Serv | /ice | | 34.3 | | | Q | uantity Uni | ts | | | VENEZA PERE | |
|----------------|-----------|---------|------|-------|---------|-----|-------------|-------|-----|-------|-------------|---|
| Contaminated | l Soil (R | CRA Exe | mpt) | | | | 10.00 ya | rds | | | | |
| | Cell | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight | |
| ab Analysis: | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | | TTOIGHT | - |

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): RCRA Hazardous Waste Analysis Process Knowledge Other (Provide description above)

| D١ | ٠i٧ | er/ | Ag | ent | Sig | na | ture | |
|----|-----|-----|----|-----|-----|----|------|--|
| | | | | | | | | |

R360 Representative Signature

Date:

Customer Approval

Approved By:

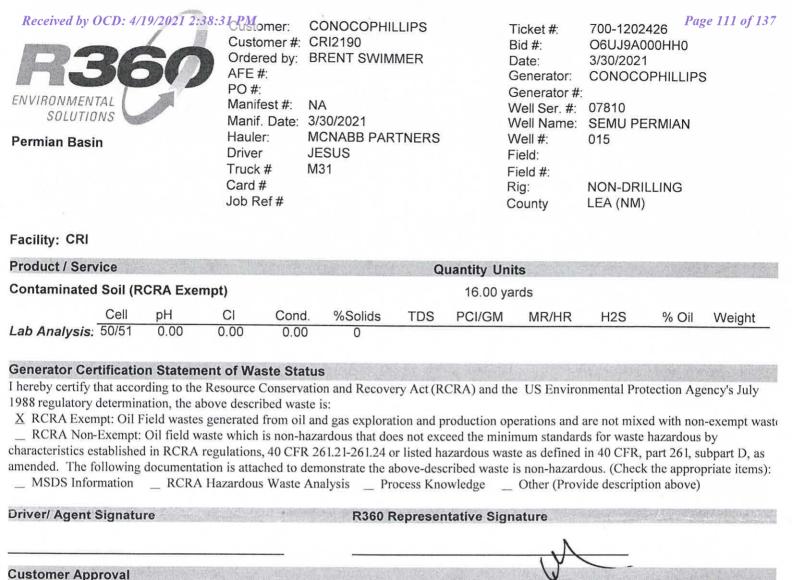
THIS IS NOT AN INVOICE

| . \ | |
|-----|--|
| 1 | |
| 2/ | |

| Received by OCD: 4/19/2021 2:38 | 2:31 PMew Mexico non-hazardous oilfield waste (Please Print) | Name () |
|--|--|--|
| | GENERATOR | NO. FOAA1 C |
| Operator No. | ASIERIANO SILEW SITE (* Permit/RRC No. | numary - nemero 20144 16 Greeners |
| Operators Name |) P) 05 vneom Lease/Well | intro state of the |
| Address | Name & No. | Provide the Removale the Removal Commission |
| City, State, Zip | e b _{enge} , on API No. | illio |
| Phone No. | ALEMAN ALEMAN AND ALEMAN AFF/PO NO. 10 PM | API No Provide the American Petroleum Institut |
| EXEMPT F&P W | William (SALC/FORGE) | |
| Ou pased Mon2 | /aste/Service Identification and Amount (place volume next to w | aste type in barrels or cubic yards) |
| Oll Based Cuttings Water Based Muds | Washout Water (Non-Injectable) | Washout Water (Injectable) |
| Water Based Cuttings | Completion Fluid/Flow back (Non-Injectable) was a superior and an active Produced Water (Non-Injectable) | Completion Fluid/Flow back (Injectable) - 4 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15 |
| Produced Formation Solids Tank Bottoms | Gathering Line Water/Waste (Non-Injectable) | Gathering Line Water/Waste (Injectable) |
| E&P Contaminated Soil | Truck Washout (exempt waste) | OTHER EXEMPT WASTES (type and generation process of the waste) |
| Gas Plant Waste WASTE GENERATION PROCESS: | tion lifts of the well the week owers re-completions had a | man () / M/) / / UCIC |
| WAS TO SERVERATION PROCESS. TO MISE WE A | DRILLING SW GWZ 22019 PER COMPLETION LEGISTER S | PRODUCTION TALE BOOK GATHERING LINES OF |
| All non-exempt E&P | NON-EXEMPT E&P Waste/Service Identification and Amo waste must be analysed and be below the threshold limits for toxicity (TCL | unt P), Ignitability, Corrosivity and Reactivity. |
| Non-Exempt Other | | m Non-Exempt Waste List on back |
| QUANTITY | B - BARRELS L - LIQUID | / () Y-YARDS) E-EACH |
| I hereby certify that according to the Resource Conse load is (Check the appropriate classification) | rvation and Recovery Act (RCRA) and the US Environmental Protection Age | ency's July 1988 regulatory determination, the above described waste |
| RCRA EXEMPT: Oil field wastes a load basis only) | generated from oil and gas exploration and production operations and are | not mixed with non-exempt waste (R360 Accepts certifications on a per |
| iodd basis offly) | | |
| 201,21-201,24, 0 | hich is non-hazardous that does not exceed the minimum standards for wa or listed hazardous waste as defined by 40:CFR, part 261, subpart D, as ame | nste hazardous by characteristics established in RCRA regulations, 40 CFR inded. The following documentation demonstrating the waste as non- |
| Trazar dous is atta | iched. (Check the appropriate items as provided) | |
| MSDS Information | RCRA Hazardous Waste Analysis | Other (Provide Description Below) |
| Emergency non- | nazradous, non-oilfeild waste that has been ordered by the Department of | Duble Safety (8) |
| EMERGENCY NON-OILFEILD: determination ar | nd a desciption of the waste must accompany this form) | The order, documentation of non-nazardous waste |
| (PRINT) AUTHORIZED AGENTS NAME | DATE | SIGNATURE |
| man experience of the control of the | TRANSPORTER | Chapter and residing |
| Transporter's Name | Driver's Name | most |
| Address - The delice will be a second of the | Print Name | 1 A A Time of the latest the second |
| Many and the Indiana American Children and Same | Phone No. | |
| Phone No. 11 men and and the throughout | Truck No. | 20 11 2 special local based states |
| hereby certify that the above named material(s) was, | were picked up at the Generator's site listed above and delivered without | incident to the disposal facility listed below |
| AND A TOTAL TOTAL THE STATE AND A SHOWN I SHARE | | Produced forms on the first of |
| SHIPMENT DATE | DRIVER'S SIGNATURE DELIVERY | ORIVER'S SIGNATURE |
| TRUCK TIME STAMP | DISPOSAL FACILITY | RECEIVING AREA |
| N: OUT: | PODE STATE OF THE PROPERTY OF | Name/No. |
| rermit No. Halfway Facility / NM1-006 | Phone No. | 575-393-1079 |
| ddress 6601 Hobbs Hwy US 62/180 Mile Ma | | 1,2-232-10/3 |
| NORM READINGS TAKEN? (Circle One) | | > 50 micro roentgens? (circle one) YES NO |
| PASS THE PAINT FILTER TEST? (Circle One) | VES NO | |
| | | or algorith in the median terms of the second of the secon |
| Feet | TANK BOTTOMS | Accompany and second particles and second se |
| st Gauge | Inches | W/BBLS Received BS&W (%) |
| st Gauge | Inches | V/BBLS Received BS&W (%) Free Water Total Received |
| st Gauge nd Gauge eceived | Inches BS&V | Free Water Commission and Decouple amountains |
| st Gauge | Inches BS&V | Free Water |
| of Gauge and Gauge eccived I hereby certify that the above load material has be- | Inches BS&V BS&V | Free Water |
| st Gauge nd Gauge eceived | Inches BS&V | Free Water Commission and Decouple amountains |

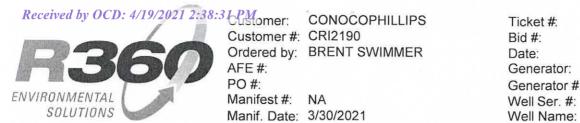
| Received by OCD: 4/19/2021 2:38. | 31 PMEW MEXICO NON-HAZARDO (PLEASE | | EST Company Name | Man Contact Information |
|--|--|--|--|--|
| | | and the training of additional | Phone No. | Ther |
| | GENER | RATOR | NO. 5044 | 116 |
| Operator No. | A I I MAN TO A STATE OF THE STA | Permit/RRC No. | 3044 | TO others |
| Operators Name | 17/11/11/11/11 | Lease/Well Name & No. | KEMIL | VIII) ceases City, |
| Address | 7 State 3 at 1 at | County | The State of the S | de omanda 3 |
| | The state of the s | API No. | ALLIA | H MANAGEMENT CO. |
| City, State, Zip | the second of the second second second | Rig Name & No. | 10/11 | |
| Phone No. | Contract Or (to the | AFE/PO No. | and price and the second | AND ASSESSED TRACE. |
| Oil Based Muds | aste/Service identification and Amount (p | lace volume next to waste typ | e in barrels or cubic yards) | |
| Oil Based Cuttings | NON-INJECTABLE WATERS Washout Water (Non-Injectable) | | ABLE WATERS out Water (Injectable) | Description of the last of the |
| Water Based Muds Water Based Cuttings | Completion Fluid/Flow back (Non-Injectable) | | etion Fluid/Flow back (Injectable) | |
| Produced Formation Solids | Produced Water (Non-Injectable) Gathering Line Water/Waste (Non-Injectable) | Produce | red Water (Injectable) ing Line Water/Waste (Injectable) | |
| Tank Bottoms E&P Contaminated Soil | INTERNAL USE ONLY | | EXEMPT WASTES (type and generation p | rocess of the waste) |
| Gas Plant Waste | Truck Washout (exempt waste) | The second second second | All MAT | rick |
| WASTE GENERATION PROCESS: | DRILLING COMPLE | TION PRODU | OCTION GATHER | RING LINES |
| Maria de la companya | NON-EXEMPT E&P Waste/Servi | ce Identification and Amount | | |
| All non-exempt E&P w | vaste must be analysed and be below the thresh | old limits for toxicity (TCLP), Ignita | billty, Corrosivity and Reactivity. | norther lists in the |
| Non-Exempt Other | | *please select from Non-E | Exempt Waste List on back | |
| QUANTITY | B - BARRELS | L-LIQUID //) | Y-YARDS) | E - EACH |
| I hereby certify that according to the Resource Consen | vation and Recovery Act (RCRA) and the US Env | ironmental Protection Agency's Jul | y 1988 regulatory determination, the | above described waste |
| ioad is (crieck trie appropriate classification) | | | | |
| RCRA EXEMPT: load basis only) | enerated from oil and gas exploration and produ | iction operations and are not mixed | d with non-exempt waste (R360 Acce | pts certifications on a per |
| RCRA NON-EXEMPT: Oil field waste wh | ich is non-hazardous that does not exceed the r | ninimum standards for waste haza | rdous by characteristics established in | RCRA regulations 40 CER |
| 261.21-261.24, or | listed hazardous waste as defined by 40 CFR, pa | art 261, subpart D, as amended. Th | ne following documentation demonstr | ating the waste as non- |
| MSDS Information | thed. (Check the appropriate items as provided) RCRA Hazardous Waste Anal | | hadda Baada Wan Bula A | |
| The state of the s | North Hozaldods Waste Alla | ysis Other (P | rovide Description Below) | |
| EMERGENCY NON-OILFEILD: Emergency non-ha | azradous, non-oilfeild waste that has been orde | red by the Department of Public Sa | afety (the order, documentation of no | n-hazardous waste |
| determination and | d a desciption of the waste must accompany thi | s form) | | |
| (PRINT) AUTHORIZED AGENTS NAME | | DATE | SIGNATURE | |
| | TRANSP | ORTER | | |
| Transporter's | 1- Der II was = | | | |
| Name // (// (//) Address | b fayrus | Driver's Name | inny | BIMA A ME |
| Address | | Print Name | 10.0 | |
| Phone No. | | Phone No. | 0117 | The state of the s |
| hereby certify that the above named material(s) was/ | were nicked up at the Generator's site listed ab | | to the disposal facility listed by law | |
| | were proceed up at the deficiation 3 site listed ab | ove and delivered without incident | to the disposal facility listed below. | A STATE OF THE REAL PROPERTY. |
| SHIPMENT DATE | DRIVER'S SIGNATURE | DELIVERY DATE | DRIVER'S SI | GNATURE |
| TRUCK TIME STAMP | DISPOSAL | FACILITY | RECEIVING AR | EA |
| IN: OUT: | CALKE OF THE PARTY | TALESTON OF THE REAL PROPERTY. | Name/No. | 13/ |
| Site Name/ | The second secon | Phone No. | | |
| Permit No. Halfway Facility / NM1-006 Address 5601 Hobbs Huge US 67/180 Mile Ma | | 575-393- | 1079 | |
| NORM READINGS TAKEN? (Circle Ope) | VES NO | A second to the second | | |
| PASS THE PAINT FILTER TEST? (Circle One) | VES CNO | NO NO | cro roentgens? (circle one) YE | 5 NO |
| | TANK BO | TTOMS | | THE RESERVE OF THE PARTY OF |
| Feet | Inches | A PROPERTY OF STREET | | |
| Ist Gauge 2nd Gauge | | BS&W/BBLS R | Received BS&W | (%) |
| Received | | | Received | |
| I hereby certify that the above load material has bee | an (circle one): Accentra | D. JEdovid J. 2 | | |
| The state above load material has bee | en (circle one): ACCEPTED DENIE | D If denied, why? | 110000 | |
| NAME (PRINT) | DATE - | / Inte | THE RESERVE TO THE RE | |
| | | | SIGNATURE | |
| 120 | | THE RESIDENCE THE PROPERTY OF THE PARTY OF T | | |

| Received by OCD: 4/19/2021 2:36 | 8:31 PMEW MEXICO NON-HAZARD | OUS OILFIELD WASTE | | 0 of 13 |
|---|--|-----------------------------|--|-----------|
| ENVIRONMENTAL SOLUTIONS | (PLEA: | SE PRINT) | NamePhone No. | - |
| | GENE | RATOR | | |
| Operator No. | | Permit/RRC No. | No. 504416 | |
| 16016 | 04011105 | Lease/Well | (EMIL 1 | 3 |
| Operators Name Address | 21-1111/2 | Name & No. | - 2 C1.100 | -) |
| Address | THE RESERVE OF THE PARTY OF THE | County API No. | 11/01 | |
| City, State, Zip | | Rig Name & No. | NIVI | |
| Phone No. | | AFE/PO No. | 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | |
| EXEMPT E&P V | Waste/Service Identification and Amount | | aste type in barrels of cubic vards) | |
| Oil Based Muds | NON-INJECTABLE WATERS | The second second | INJECTABLE WATERS | |
| Oil Based Cuttings Water Based Muds | Washout Water (Non-Injectable) Completion Fluid/Flow back (Non-Injectable) | | Washout Water (Injectable) Completion Fluid/Flow back (Injectable) | |
| Water Based Cuttings | Produced Water (Non-Injectable) | | Produced Water (injectable) | |
| Produced Formation Solids Tank Bottoms | Gathering Line Water/Waste (Non-Injectab INTERNAL USE ONLY | le) | Gathering Line Water/Waste (Injectable) OTHER EXEMPT WASTES (type and generation process of the waste) | |
| E&P Contaminated Soil | Truck Washout (exempt waste) | | OTHER EXEMPT WASTES (type and generation process of the waste) | |
| Gas Plant Waste WASTE GENERATION PROCESS: | T SPANNE | | Man I I I I I I I I I I I I I I I I I I I | - |
| WASTE GENERATION PROCESS: | | PLETION | PRODUCTION GATHERING LINES | |
| All non-exempt E&I | NON-EXEMPT E&P Waste/Se waste must be analysed and be below the three | | | |
| Non-Exempt Other | | | m Non-Exempt Waste List on back | |
| - Suite minima (| | | | _ |
| QUANTITY | B - BARRELS | L - LIQUID | Y=YARDS E = EACH | f |
| hereby certify that according to the Resource Consoad is (Check the appropriate classification) | ervation and Recovery Act (RCRA) and the US E | nvironmental Protection Ag | ency's July 1988 regulatory determination, the above described | waste |
| Oil field wastes | generated from oil and gas exploration and pr | oduction operations and are | not mixed with non-exempt waste (R360 Accepts certifications | on a per |
| RCRA EXEMPT: load basis only | | | | |
| RCRA NON-EXEMPT: Oil field waste | which is non-hazardous that does not exceed the | ne minimum standards for w | aste hazardous by characteristics established in RCRA regulation | s, 40 CFR |
| | | | ended. The following documentation demonstrating the waste a | s non- |
| | tached. (Check the appropriate items as provide | | | |
| MSDS Informat | ion RCRA Hazardous Waste A | nalysis | Other (Provide Description Below) | |
| | | | | |
| EMERGENCY NON-OILFEILD: | i-hazradous, non-oilfeild waste that has been o and a desciption of the waste must accompany | | Public Safety (the order, documentation of non-hazardous was | te |
| (PRINT) AUTHORIZED AGENTS NAME | | DATE | SIGNATURE | |
| | TRANS | PORTER | | |
| ransporter's | De Hand | | | |
| Name // C//// | DD 164/14/2 | Driver's Name | - I (In C) | |
| Address | | Print Name | | |
| | The second secon | Phone No. | | |
| hone No. | | Truck No. | - N U = | |
| hereby certify that the above named material(s) w | as/were picked up at the Generator's site listed | above and delivered withou | t incident to the disposal facility listed below. | |
| SHIPMENT DATE | DRIVER'S SIGNATURE | DELIVE | V DATE DRIVER'S SIGNATURE | |
| TRUCK TIME STAM | DISPOSA | L FACILITY | RECEIVING AREA | |
| IN: OUT: | | | Name/No. 50/3/ | |
| Site Name/ | | | Name/No. 30111 | |
| Permit No. Halfway Facility / NM1-006 | | Phone No. | 575-393-1079 | |
| Address 6601 Hobbs Hwy US 62/180 Mile | Marker 66 Carlsbad, NM 88220 | | | |
| NORM READINGS TAKEN? (Circle On | e) YES NO | If YES, was reading | ng > 50 micro roentgens? (circle one) YES 1 | NO |
| PASS THE PAINT FILTER TEST? (Circle On | e) (ES | NO | | |
| | TANKB | OTTOMS | | , Harris |
| Feet | Inches | | withing a stand of the second of | |
| Ist Gauge 2nd Gauge | | BS8 | W/BBLS Received BS&W (%) Free Water | |
| Received | | Holl Charles | Total Received | |
| I horoby contify that the above had a seed the | haon (circle ana). | AUED IEd. | | |
| I hereby certify that the aboye load material has | been (circle one): ACCEPTED DE | NIED If denied, why? | | |
| 7111141110 | - 4/5/ | AHI | | |
| NAME (PRINT) | DATE | TITLE | SIGNATURE | |
| D 2D 1 4. Talleini Do 6/10/0001 | 8:16:43 AM RANSPORTER COPY | Pink - GENERATOR SI | TE COPY Gold - RETURN TO GENERATOR Ven | rsion : |
| neteasea to imaging souther the | | | | |



THIS IS NOT AN INVOICE!

Approved By:



MCNABB PARTNERS Hauler:

Driver DANIEL Truck # M79

Card# Job Ref# 700-1202438 O6UJ9A000HH0

3/30/2021 CONOCOPHILLIPS

Generator #:

07810 Well Name: SEMU PERMIAN

Well #: 015 Field:

Field #: Rig:

NON-DRILLING

Page 112 of 137

County

LEA (NM)

Facility: CRI

Permian Basin

| Product / Service | | | | | Filedone en | Q | uantity Uni | ts | | | |
|-------------------------------------|------------|---------------|-------------|------------|-------------|------------|--------------|--------------|-------------|-------------|-------------|
| Contaminated | l Soil (R | CRA Exe | mpt) | | | | 18.00 ya | rds | | | |
| | Cell | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight |
| Lab Analysis: | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | | |
| Generator Cer | rtificatio | on Statem | ent of Wa | aste Statu | S | | | | | | |
| I hereby certify to 1988 regulatory | | | | | | ery Act (R | CRA) and the | e US Enviror | nmental Pro | otection Ag | ency's July |
| . soo regulatory | acterinini | action, the c | icove desci | rocu waste | 15. | | | 12 | | 8 8 8 | |

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

R360 Representative Signature

| _ MSDS In | formation _ | _ RCRA Hazardous | Waste Analysis | _ Process Knowledge | _ Other (| Provide description above |) |
|-----------|-------------|------------------|----------------|---------------------|-----------|---------------------------|---|
| | | | | | | | |

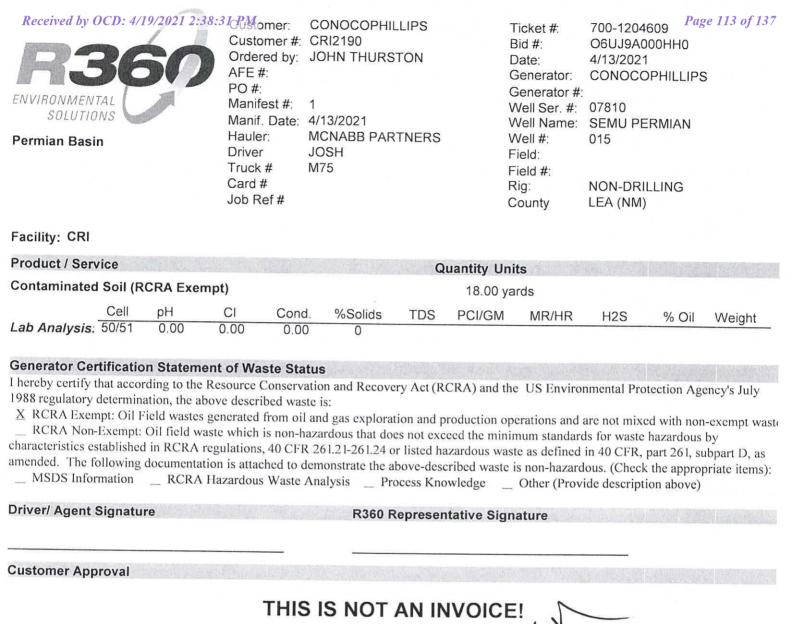
Customer Approval

THIS IS NOT AN INVOICE!

Date:

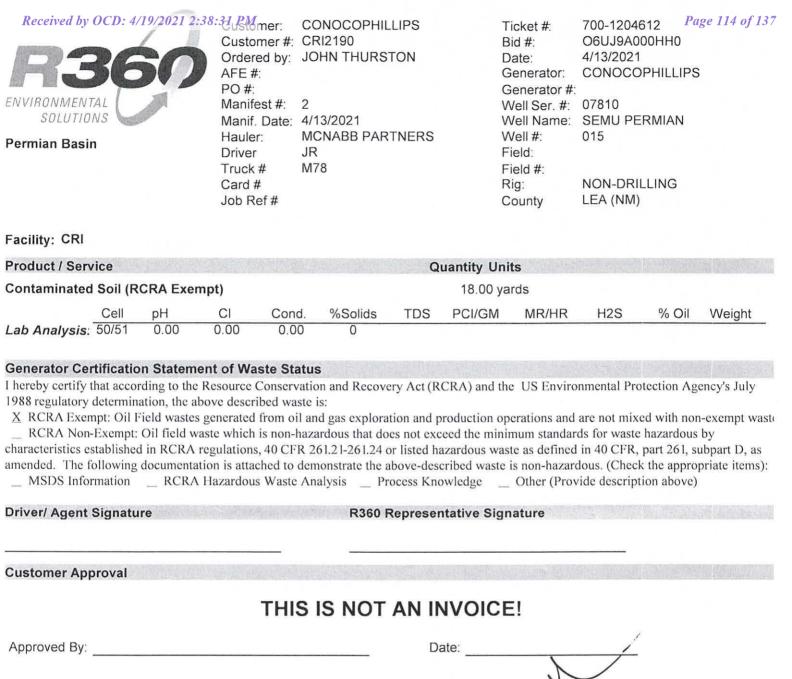
Approved By:

Driver/ Agent Signature



Date:

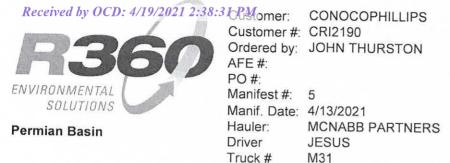
Approved By:



t6UJ9A01I9GE

Received by OCD: 4/19/2021 2:38:31 PM tomer: Page 115 of 137 CONOCOPHILLIPS 700-1204694 Ticket #: Customer #: CRI2190 Bid #: O6UJ9A000HH0 Ordered by: JOHN THURSTON Date: 4/13/2021 AFE #: Generator: CONOCOPHILLIPS PO #: Generator #: Manifest #: 3 Well Ser. #: 07810 SOLUTIONS Manif. Date: 4/13/2021 Well Name: SEMU PERMIAN MCNABB PARTNERS Hauler: Well #: 015 Permian Basin Driver JR Field: Truck # M78 Field #: Card # NON-DRILLING Rig: Job Ref# LEA (NM) County Facility: CRI Product / Service **Quantity Units** Contaminated Soil (RCRA Exempt) 18.00 yards рН Cond. %Solids TDS PCI/GM MR/HR H₂S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 Generator Certification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): __ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above) **Driver/ Agent Signature R360 Representative Signature Customer Approval** THIS IS NOT AN INVOICE! Approved By: Date:

Received by OCD: 4/19/2021 2:38:31 PM tomer: Page 116 of 137 CONOCOPHILLIPS 700-1204699 Ticket #: Customer #: CRI2190 O6UJ9A000HH0 Bid #: Ordered by: JOHN THURSTON Date: 4/13/2021 Generator: AFE #: CONOCOPHILLIPS PO # Generator #: ENVIRONMENTAL Manifest #: Well Ser. #: 07810 SOLUTIONS Manif. Date: 4/13/2021 Well Name: SEMU PERMIAN Hauler: MCNABB PARTNERS Well #: 015 Permian Basin Driver JOSH Field: Truck # M75 Field #: Card# Rig: NON-DRILLING Job Ref# LEA (NM) County Facility: CRI Product / Service **Quantity Units** Contaminated Soil (RCRA Exempt) 18.00 yards Cell pH CI Cond. %Solids TDS PCI/GM MR/HR H₂S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 0 **Generator Certification Statement of Waste Status** I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): _ MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge _ Other (Provide description above) **Driver/ Agent Signature R360 Representative Signature Customer Approval** THIS IS NOT AN INVOICE! Approved By: Date:



Truck # Card# Job Ref#

Page 117 of 137 Ticket #: 700-1204718 Bid #: O6UJ9A000HH0 Date: 4/13/2021

Generator: CONOCOPHILLIPS

Generator #: Well Ser. #: 07810

SEMU PERMIAN Well Name:

Well #: 015 Field:

Field #: Rig: NON-DRILLING County LEA (NM)

Facility: CRI

| Product / Service | | | | | Q | uantity Uni | ts | | | APPENDENCE OF THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUMN TO THE PE | |
|---------------------------------|-------|------|------|-------------|---------|-------------|--------|-------|-----|--|----------|
| Contaminated Soil (RCRA Exempt) | | | | 16.00 yards | | | | | | | |
| | Cell | рН | CI | Cond. | %Solids | TDS | PCI/GM | MR/HR | H2S | % Oil | Weight |
| Lab Analysis: | 50/51 | 0.00 | 0.00 | 0.00 | 0 | | | | | 70 011 | vvoigitt |

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste _ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as define in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): MSDS Information _ RCRA Hazardous Waste Analysis _ Process Knowledge Other (Provide description above)

| Driver/ Agent Signature | R360 Representative Signature | |
|-------------------------|-------------------------------|--|
| 2001 | | |
| Customer Approval | | |
| | | |

THIS IS NOT AN INVOICE!

| Approved By: | Date: |
|----------------|-------|
| INDEXES AWARDS | Bate. |
| | |

Received by OCD: 4/19/2021 2:38:31 PM omer: Page 118 of 137 CONOCOPHILLIPS 700-1204719 Ticket #: Customer #: CRI2190 O6UJ9A000HH0 Bid #: Ordered by: JOHN THURSTON 4/13/2021 Date: AFE #: CONOCOPHILLIPS Generator: PO # Generator #: Manifest #: Well Ser. #: 07810 SOLUTIONS Manif. Date: 4/13/2021 Well Name: SEMU PERMIAN Hauler: MCNABB PARTNERS Well #: 015 Permian Basin Driver **GUMER** Field: Truck # M32 Field #: Card# Rig: NON-DRILLING Job Ref# LEA (NM) County Facility: CRI Product / Service **Quantity Units** Contaminated Soil (RCRA Exempt) 16.00 yards Cell рН Cond. %Solids TDS PCI/GM MR/HR H₂S % Oil Weight Lab Analysis: 50/51 0.00 0.00 0.00 0 **Generator Certification Statement of Waste Status** I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items): __ MSDS Information __ RCRA Hazardous Waste Analysis __ Process Knowledge __ Other (Provide description above) **Driver/ Agent Signature R360 Representative Signature Customer Approval** THIS IS NOT AN INVOICE!

THIS IS NOT AN INVOICE!

Approved By: _____ Date: ____

APPENDIX F NMSLO Seed Mixture Details



United States Department of Agriculture

VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Lea County, New Mexico

SEMU PERMIAN #015



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

| Preface | 2 |
|---|----|
| How Soil Surveys Are Made | |
| Soil Map | |
| Soil Map | |
| Legend | |
| Map Unit Legend | |
| Map Unit Descriptions | |
| Lea County, New Mexico | |
| KM—Kermit soils and Dune land, 0 to 12 percent slopes | |
| References | 15 |

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Slide or Slip

Sinkhole

Sodic Spot

Spoil Area Stony Spot

å

Very Stony Spot

Ŷ

Wet Spot

Δ

Other

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lea County, New Mexico Survey Area Data: Version 17, Jun 8, 2020

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

| Map Unit Symbol | Map Unit Name | Acres in AOI | Percent of AOI | | | |
|-----------------------------|--|--------------|----------------|--|--|--|
| КМ | Kermit soils and Dune land, 0 to 12 percent slopes | 0.2 | 100.0% | | | |
| Totals for Area of Interest | | 0.2 | 100.0% | | | |

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Lea County, New Mexico

KM—Kermit soils and Dune land, 0 to 12 percent slopes

Map Unit Setting

National map unit symbol: dmpx Elevation: 3,000 to 4,400 feet

Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 60 to 62 degrees F

Frost-free period: 190 to 205 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 46 percent

Dune land: 44 percent

Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Parent material: Calcareous sandy eolian deposits derived from sedimentary rock

Typical profile

A - 0 to 8 inches: fine sand C - 8 to 60 inches: fine sand

Properties and qualities

Slope: 5 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 3 percent

Gypsum, maximum content: 1 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 2.0

Available water capacity: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R042XC022NM - Sandhills

Hydric soil rating: No

Description of Dune Land

Setting

Landform: Dunes

Landform position (two-dimensional): Shoulder, backslope, footslope

Landform position (three-dimensional): Side slope Down-slope shape: Convex, linear, concave

Across-slope shape: Convex

Typical profile

A - 0 to 6 inches: fine sand C - 6 to 60 inches: fine sand

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8e

Hydrologic Soil Group: A Hydric soil rating: No

Minor Components

Palomas

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Pyote

Percent of map unit: 3 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Wink

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

Maljamar

Percent of map unit: 2 percent

Ecological site: R042XC003NM - Loamy Sand

Hydric soil rating: No

References

American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.

American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.

Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.

Federal Register. July 13, 1994. Changes in hydric soils of the United States.

Federal Register. September 18, 2002. Hydric soils of the United States.

Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.

National Research Council. 1995. Wetlands: Characteristics and boundaries.

Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 054262

Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053577

Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2 053580

Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.

United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.

United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2 053374

United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelprdb1043084

United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

NMSLO Seed Mix

Sandy (S)

SANDY (S) SITES SEED MIXTURE:

| COMMON NAME | VARIETY | APPLICATION RATE (PLS/Acre) | DRILL BOX |
|----------------------------------|-------------------|--------------------------------|--------------|
| | | (: ') | |
| Crassasi | | | |
| <u>Grasses:</u> Sand bluestem | Elido VNC Co | 2.0 | F |
| | Elida, VNS, So. | | = |
| Little bluestem | Cimarron, Pastura | 3.0 | \mathbf{F} |
| Black grama | VNS, Southern | 1.0 | D |
| Sand dropseed | VNS, Southern | 4.0 | \mathbf{S} |
| Plains bristlegrass | VNS, Southern | 2.0 | D |
| , | AU CO | M/S = 1 | |
| Forbs: | 200000 | | 2 |
| Firewheel (Gaillardia) | VNS, Southern | 1.0 | A D |
| Annual Sunflower | VNS, Southern | 1.0 | D |
| AV. | | ~~ | AB |
| Shrubs: | | | R |
| Fourwing Saltbush | VNS, Southern | 1.0 | F |
| | T MEGALITY | 3.866 | O B |
| | Total PLS/ac | re 16.0 | a B |
| N | | 30 | QFB |

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.



District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 24685

CONDITIONS

| Operator: | OGRID: |
|------------------------|---|
| CONOCOPHILLIPS COMPANY | 217817 |
| 600 W. Illinois Avenue | Action Number: |
| Midland, TX 79701 | 24685 |
| | Action Type: |
| | [C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date | | |
|------------|-----------|----------------|--|--|
| chensley | None | 6/10/2021 | | |